ESC/VP21 Command User's Guide

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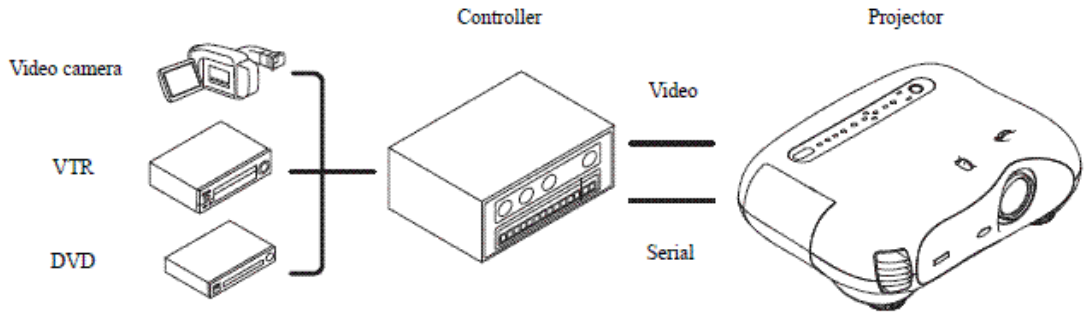
1. Introduction of ESC/VP21

ESC/VP21 is a control command and protocol for Epson projectors, which is used for A/V controller to control and monitor Epson projectors. The command codes are comprised of ASCII codes. Therefore the command codes can be understood very easily and you can easily control projectors using a PC with a terminal emulator such as Microsoft Hyper terminal.

Since ESC/VP21 is independent of communication protocols. Serial, USB or TCP/IP network can be used to transmit the commands to projectors.

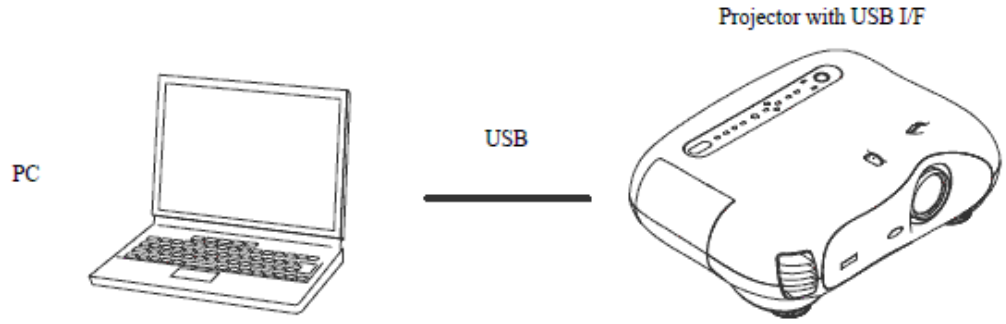
* Serial connection

A/V controller normally use as serial connection to control projectors. Refer to Appendix for details.



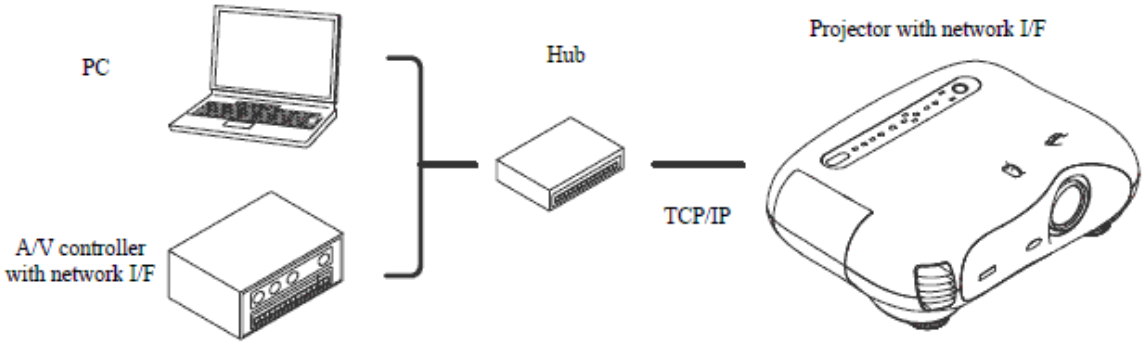
* USB connection

A USB interface can be used to control a projector. Refer to Appendix for details.



* Network connection

After establishing a TCP session, ESC/VP21 commands can be sent to projectors. Refer to ESC/VP. net protocol manual



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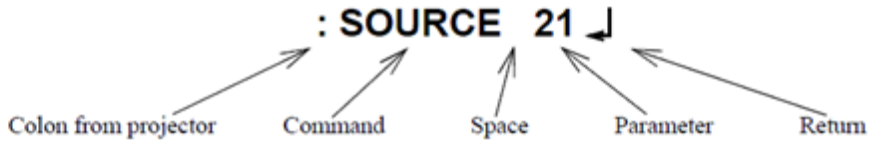
2. ESC/VP21 Command Formats

2.1. Set command format

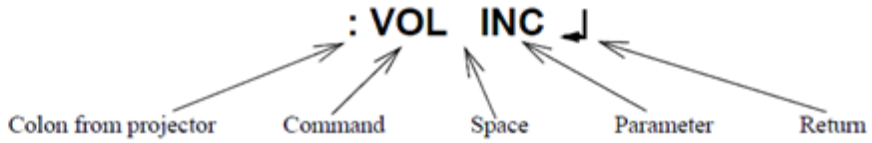
A set command consists of a command and a parameter. Projector returns a colon after executing the command.
There are two types of parameters. One is fixed such as ON, OFF, or 21. Other is a step parameter such as INC, DEC or INIT.

INC: increments the parameter by one.
DEC: decrements the parameter by one.
INIT: initializes the parameter.

Set command example 1



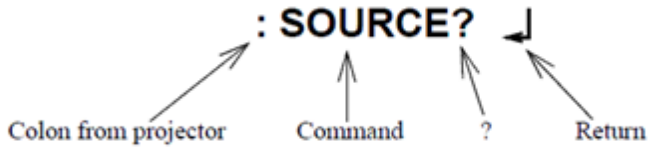
Set command example 2



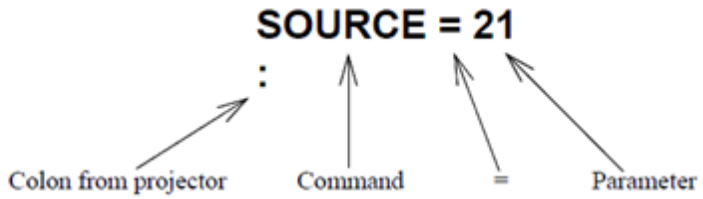
2.2. Get command format

A get command consists of a command and ?. Projector returns a response parameter after executing the command.

Get command example



Response parameter example



2.3. Null command

The null command is as command code of the return key code (Hex 0D). Projector returns a colon. The null command can be used to confirm that the projector is in operation.

2.4. Illegal commands

Projector returns “ERR” and a return key code (Hex 0D) and a colon when it receives invalid commands.

ERR

:

3. Command transmission timing

3.1. Power on state

A command should be sent after receiving the colon of the previous command from the projector.
In case that you can not wait for the colon and send a command after receiving it, instead send a command after the execution time listed in the following table.

Command	Excution time
PWR ON	40 seconds (*1)
PWR OFF (*4)	10 seconds
SOURCE (*3)	5 seconds (*2)
All others	3 seconds

(*1) When a projector receives the PWR ON command, it tries to ignite the lamp by activating the ballast unit. In case that the lamp fails to be ignited, it tries to ignite the lamp three times at maximum. When the lamp fails to be ignited three times, it is a lamp failure.
The projector returns a colon within 40, 70 and 100 seconds when successful in the first, second and third times respectively.

(*2) When the input vide sync signal is stable, a colon is returned within 5 seconds. However, it may take more than 5 seconds when the input video sync signal is unstable.

(*3) Projector initiates the process of the input video signal recognition when it receives a SOURCE command. If the signal of the video input is changing (for example, from SVGA to XGA by A/V controller) during the process of the input video signal recognition, the projector returns “ERR”.

(*4) Projectors execute the PWR OFF command after they start completely.

3.2. Warning and abnormal cases

Projector executes commands normally while a warning indicator such as a high temperature warning is on.
Projector does not execute commands nor return a colon when the projector is in an abnormal state such as a lamp failure and abnormal high temperature.

When an abnormal state is continued for 130 seconds after, PWR ON command becomes possible.

4. Error Status

A projector returns the error status when a projector receives "ERR?" command.

The following table shows the return codes and the meaning of error status.

Command	Return code
	00 : There is no error or the error is recovered
	01 : Fan error
	03 : Lamp failure at power on

ERR?	04	: High internal temperature error
	06	: Lamp error
	07	: Open Lamp cover door error
	08	: Cinema filter error
	09	: Electric dual-layered capacitor is disconnected
	0A	: Auto iris error
	0B	: Subsystem Error
	0C	: Low air flow error
	0D	: Air filter air flow sensor error
	0E	: Power supply unit error (Ballast)
	0F	: Shutter error
	10	: Cooling system error (peltiert element)
	11	: Cooling system error (Pump)
	12	: Static iris error
	13	: Power supply unit error (Disagreement of Ballast)
	14	: Exhaust shutter error
	15	: Obstacle detection error
	16	: IF board discernment error

5. Applicable model

Please refer to the "Product list".

6. Appendix

6.1. Communication specification

A projector and a computer can be connected using a serial or USB port. The projector can be remotely controlled by sending commands to the projector.

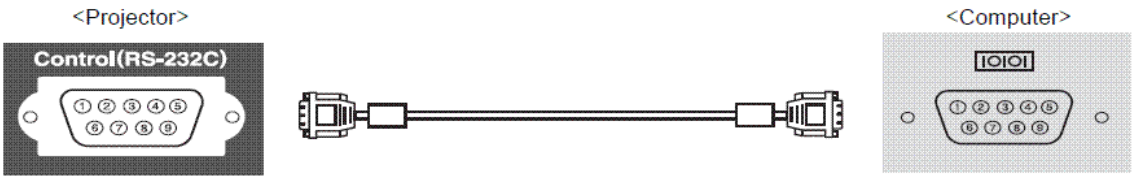
Serial connection: (TW100,TS10,TW10,TW200,TW500,TW10H,TW200H,TW20,TW600/520/550/800, TW700,TW1000,TW2000,PL-HomeCinema400/700/720/1080/1080UB/705HD/6100/6500UB/8100/8345/8350/8500UB, TW450, TW420 PL-ProCinema800/810/1080/1080UB/7100/7500UB/9100/9350/9500UB), TW8000/TW9000/TW8000W/
TW9000W

Select RS-232C at Advanced Setting of the Menu.

Communication condition

Baud rate	: 9600bps
Data length	: 8 bits
Parity	: No
Stop bit	: 1 bit
Flow control	: No
Connector	: D-Sub 9pin

Projector input : Control(RS-232C)



Projector		PC serial cable	Computer	
GND	5	———	5	GND
RD	2	◄———	3	TD
TD	3	———►	2	RD

Signal name	Function
GND	Common ground
TD	Transmitted data
RD	Received data

7. Revision History

Revision	Issued date	Page	Description
A	Nov 9th, 2012	All page	New release as new format
B	Jan 21th, 2015	TW9200/TW8200 and so on.	Added new model (LS9600W/10000, TW8200/TW9200, TW6600, TW5200,TW570)
C	Sep 27th, 2016	TW9200/TW8200 and so on.	Added new model (TW540/TW5300/LS10500/TW9300/TW6800)
D	Mar 22th, 2018	TW5650/TW5600 and so on.	Added new model (HC 2150/TW5650,5600,5400/TZ-2100/LS100)
E	Aug 3th, 2018	TW7400/TW650 and so on.	Added new model(TW7400/TW650)
F	Jan 8th, 2019	TW9400/TW8400 and so on.	Added new model(EH/CH-TW9400/TW9400W/TW8400/TW8400W PC 6050UB/HC 5050UB/HC 5050UBe)
G	Aug 23th, 2019	TW7100	Added new model (EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200)
H	Oct 15th, 2019	LS500	Added new model (LS500W/LS500B)
I	Apr 24th, 2020	TW9400/TW7400 and so on.	Added new command (RGBCMY set value)

J	Jul 8th, 2020	TW750	Added new model (TW750/TW740/TW710/HC 880/HC 1080)
K	Aug 19th, 2020	EF12/EF10 _11	Added new model (EF-12/EF-11/EF-10)
L	Feb 22th, 2021	TW5800 and so on.	Added new model (TW5820/TW5800/TW5750/TW5700 Home Cinema 2250/2200)
M	Oct 15th, 2021	LS12000/ TW5825	Added new model (LS12000/LS11000/TW5825/TW5705/ CH-TW5800T/TW5700T/HC2250)

Applicable model list of ESC/VP21 command

Entry model

Entry model(2020~)
- EH-TW750/TW740
- PL-HC740HD/HC1040/HC640

Entry model(2017~)
- Home Cinema 660/760HD/1060
- EH/CH-TW650/610

Entry model(2013)
- EH-TW410/TW490/TW495
- PL-HomeCinema 725HD/730HD

Entry model (2011)
- EH-TW400/TW480/TW490C/TW470C
- PL-Home Cinema 710HD/707

Home basic model

Home Basic model(2021~)
- EH-TW5825/TW5705
- CH-TW5800T/TW5700T
- Home Cinema 2250

Home Basic model(2017~)
- EH/CH-TW5650/TW5600/TW5400
- PL-HomeCinema2150/2100

Home Basic model(2015~)
- EH/CH-TW5350/TW5300/TW5210
- PL-HomeCinema2040/2045

Home FullHD Entry model(2013~)
- EH-TW5200/PL-HomeCinema 2030
- EH-TW5100/PL-HomeCinema2000

Home Basic model(2012~)
- EH-TW6100/HomeCinema 3020/3020+/TW6510C/TW5910/TW5810C
- EH-TW6100W/TW6515C/PL-HomeCinema3020e

Home Basic model (2011~2012)
- EH-TW6000/HC3010/3010+/TW6500C/TW5900/TW5800C
- EH-TW6000W/PL-HC3010e/TW6550C

Home Basic model (2009~2011)
- EH-TW3500/2900
- PL-HomeCinema 8100/9100

Home Basic model (2008~2009)
- EH-TW2800/TW3000/TW3800
- PL-HomeCinema 6100/ProCinema 7100

Home entertaiment model

Home Entertainment model(2020~)
- EF-12

Home Entertainment model(2020~)
- EF-10/11

Home Entertainment model(2019~)
- EH-TW7100/TW7000
- CH-TZ3000/TW7000
- Home Cinema 3800/3810/3200

Home Entertainment model(2016~)
- EH/CH-TW6700/TW6700W/TW6800/TW6800W/TW6300
- PL-HC3900/HC3700/HC3710/HC3100

Home Entertainment model(2014~)
- EH/CH-TW6600/TW6600W/TW6200
- PL-HomeCinema 3500/3510/3600e/3000

Home short throw model

Home Short Throw(2017~)
- EH/CH-LS100
- Home Cinema LS100

Home Short Throw(2019~)
- EH-LS500W/LS500B

Home theater model

Home Theatre model(2018~)
EH/CH-TW9400/TW9400W/TW8400/TW8400W
- PC 6050UB/HC 5050UB/HC 5050UBe

Home Theatre model(2018~)
- EH/CH-TW7400
- PC4050/HC4010

Home Theatre model(2016~)
- EH/CH-TW9300/TW9300W/TW8300/TW8300W/TW7300
- PL-PC6040UB/4040UB/HC5040UB/5040UBe

Home Theatre model (2012~2013)
- EH-TW8100/PL-HC5020UB/TW8510C/TW9100/PL-PC6020UB/TW9510C
- EH-TW9100W/HC5020UBe/TW8515C /TW9100W/TW9515C

Home Theatre model (2011~2012)
EH-TW8000/PL-HomeCinema5010/EH-TW8500C/TW9000/PL-ProCinema6010/TW9500C
EH-TW8000W/PL-HomeCinema5010e/EH-TW9000W

Home Theatre model (2010~)
EH-TW3600/3200/3300C/3700C/3850C
PL-HomeCinema 8350/8345/ProCinema 9350

Home Theatre model (2009~2011)
EH-TW4400/TW4500/TW5500/TW5850C
PL-HomeCinema 8500UB/8700UB, ProCinema 9500UB/9700UB

Home Theatre model (2008~2009)
EH-TW4000/TW5000/TW5800C
PL-HomeCinema 6500UB/ProCinema 7500UB

Home Theatre model (2007~2008)
EMP-TW2000
PL-ProCinema 1080UB/HomeCinema 1080UB

Home Theatre model (2006~2007)
EMP-TW1000/TW980
PL-ProCinema 1080/HomeCinema 1080

Home pro model

High-end Home Theatre model(2016~)
- EH/CH-LS12000B/LS11000W

High-end

High-end Home Theatre model(2016~)
- EH/CH-LS10500
- PL-ProCinemaLS10500

High-end Home Theatre model(2014~)
- EH-LS9600W/PL-ProCinema LS9600e
- EH/CH-LS10000/PL-ProCinema LS10000

High-end Theatre model(2012)
- EH-R1000/R2000/R3000C/R4000/R5000C
- PL-HomeCinema 21000/ProCinema 31000/61000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Laser ON 02: Warmup 03: Cool down 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30: Auto 40: Full 50: H Zoom INIT (Setting only) If <Auto> is selected (setting only) x1: mode x2: Auto (=30)
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00: Normal 01: ECO INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Home	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	OK
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source (SDI)	60	N/A
	61	N/A
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A

EH-TW5825
CH-TW5800T
Home Cinema 2250
EH-TW5705
CH-TW5700T

Home Cinema 2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	N/A
		ZOOM?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
	Set/Confirmation PJ installation	AUTOINSTL x1	N/A	OK	N/A
		AUTOINSTL?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	OK (TW5750 only)
		AUTOSEARCH?	N/A	OK	OK (TW5750 only)
		Parameter/Return code			00:Off 01:ON
	Set/Confirmation enable source Set	ENSRC x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
		ENSRC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1: Adjustment Value 0-255 INC/DEC/INIT
		SHARP?	N/A	OK	OK
		SHARP? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	N/A
		HPOS?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A
Mic Mute	E7	N/A
Hot Word	E8	N/A

IR	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
Power	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Home	30	OK
ESC	3D	N/A
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	OK
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Computer	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	OK
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute	3E	N/A
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	N/A
Not Used	4C	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	N/A
	F2 (Video)	OK (HDMI1,HMID2)
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "0x".		30 HDMI1 A0 HDMI2

EH-TW5825
CH-TW5800T
Home Cinema 2250
EH-TW5705
CH-TW5700T

Home Cinema 2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
	Setting/Confirmming vertical position	VPOS xxx	N/A	OK	N/A
		VPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	N/A
		TRACKING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming sync value	SYNC xxx	N/A	OK	N/A
		SYNC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Dark Gamma Uplift INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 ~ Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x1 of GAMMALV command
		Return code			0-255
	Set/Confirmation RGBCMY Set value	AXESADJ x1 x2 x3 x4	N/A	OK	OK
		Parameter			x1: Color 01: R 02: G 03:B 04: C 05: M 06: Y 90: ALL x2: Hue 0-255 x3: Chromatic value 0-255 x4: Brightness 0-255 INIT
		AXESADJ?	N/A	OK	OK
		Return code			0-255 Return the hue, chromatic value, and brightness of each color in the order of R, G, B, C, M, Y
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 00: ALL 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	N/A
Volume-	57	OK
EFFECT	50	OK
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	OK
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	N/A
Stop	D2	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250

EH-TW5825
CH-TW5800T
Home Cinema 2250
EH-TW5705
CH-TW5700T

Home Cinema 2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code	-		N/A
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	N/A
		DYNRANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	N/A
		HDRPQ?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	N/A
		HDRHLG?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	N/A
		Parameter			N/A
		GRAYSCALE? X1	N/A	N/A	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	N/A
		BOXPATTERN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation scean adaptive gammma set	SCENEGAMMA x1	N/A	OK	N/A
		SCENEGAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound mode	SOUND x1	N/A	OK	OK
		SOUND?	N/A	OK	OK
		Parameter/Return code			01: Standard 02: Vocal 03: Music 04: Movie INIT (Setting only)
	Set/Confirmation clear voice	CLEARVOICE x1	N/A	OK	N/A
		CLEARVOICE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation virtual surround	VIRTUALSURROUND x1	N/A	OK	N/A
		VIRTUALSURROUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound space	SOUNDAREA x1	N/A	OK	N/A
		SOUNDAREA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation bass extension	BASSBOOST x1	N/A	OK	N/A
		BASSBOOST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation auto loudness	AUTOLOUDNESS x1	N/A	OK	N/A
		AUTOLOUDNESS?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Set/Confirmation V mute	VMUTE x1	N/A	OK	N/A
		VMUTE?	N/A	OK	N/A
					N/A
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
Pause	D3	N/A
Rewind	D4	N/A
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	N/A
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A
Screen Mirroring1	B3	N/A
Screen Mirroring2	B4	N/A
Light Output	DA	N/A
USB-A	B5	N/A
USB-B	B6	N/A
Projection	B7	N/A
		N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

ReturnCode	No.	
0000000000	00	
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	
0000000200	10	
0000000400	11	
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	
0002000000	26	
0004000000	27	
0008000000	28	
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250

EH-TW5825
CH-TW5800T
Home Cinema 2250
EH-TW5705
CH-TW5700T

Home Cinema 2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip horizontal OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps FF: USB
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	N/A
		STANDBYCONF?	N/A	—	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250

EH-TW5825
CH-TW5800T
Home Cinema 2250
EH-TW5705
CH-TW5700T

Home Cinema 2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
	Set/Confirmation USB power delivery	USBSUPPLY x1	N/A	OK	N/A
		USBSUPPLY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation batch setup range	BARANGE x1	N/A	OK	N/A
		BARANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	N/A
		HFUNC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	OK	N/A
		WDMTMODE?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	OK	N/A
		WDCH?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	OK
		BTAUDIO?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1 : Lamp operation time
	Getting operation time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Setting/Confirmation log saving location	LOGTO	N/A	OK	N/A
		LOGTO?	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW5825/TW5705/ CH-TW5800T/TW5700T/ HC2250

EH-TW5825
CH-TW5800T
Home Cinema 2250
EH-TW5705
CH-TW5700T

Home Cinema 2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Laser ON 02: Warmup 03: Cool down 04: Standby Mode (Network ON) / Communication Standby 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK (LS12000)
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK (LS12000)
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	OK (LS12000)
		CORRECTMET?	N/A	OK	OK (LS12000)
		Return code			01: H/V keystone 02: Quick Corner 03: Point Correction
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			<LS12000> 30: Auto 40: Full 50: H Zoom 80: Anamorphic 90: Horiz Squeeze INIT (Setting only) <LS11000> 30: Auto 40: Full 50: H Zoom INIT (Setting only) <Auto> x1: mode x2: Parameter of "Auto" =30
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Home	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A
	62	N/A
	63	N/A
	64	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Digital Zoom Parameter: MIN/MAX/INC/DEC/OFF Return Code: Zoom position: 0-1023
	Setting focus value	FOCUS xxx	OK	OK	OK
		FOCUS?	OK	OK	OK
		Parameter/Return code			Powered Focus Parameter: MIN/MAX/INC/DEC/OFF Return Code: Focus position: 0-1023
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	OK
		Parameter			Powered Lens Shift INIT/MIN/MAX/INC/DEC/OFF
		LENS?	OK	OK	OK
		Return code			LENS=x1 x1: 0-1023 A/D converted value
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	OK
		Parameter			Powered Lens Shift INIT/MIN/MAX/INC/DEC/OFF
		HLENS?	OK	OK	OK
		Return code			HLENS=x1 x1: 0-1023 A/D converted value
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
	Set/Confirmation PJ installation	AUTOINSTL x1	N/A	OK	N/A
		AUTOINSTL?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation enable source Set	ENSRC x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
		ENSRC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	OK
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A
Mic Mute	E7	N/A
Hot Word	E8	N/A

IR	Code	LS12000/LS11000
Power	3B	OK
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Home	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Computer	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	N/A
	F2 (Video)	OK (HDMI1, HDMI2)
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "^".		30 HDMI A0 HDMI2

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK
		Parameter			x1: Adjustment Value 0-255 INC/DEC/INIT x2: Specific setting 00: Standard 01: Thin Line Enhancement 02: Thick Line Enhancement
		SHARP?	N/A	OK	N/A
		SHARP? x1	N/A	OK	OK
		Parameter			Please refer x2 of sharpness setting
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 20: B&W Cinema *1 23: Vivid INIT (Setting only) *1 DIPSW #2 bit5
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	N/A
		HPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	N/A
		VPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	N/A
		TRACKING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming sync value	SYNC xxx	N/A	OK	N/A
		SYNC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	OK
Not Used	62	N/A
Not Used	63	N/A
Lens	64	OK
Lens 1	65	OK
Lens 2	66	OK
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	OK
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Dark Gamma Uplift INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 – Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x1 of GAMMALV command
		Return code			0-255
	Set/Confirmation RGBCMY Set value	AXESADJ x1 x2 x3 x4	N/A	OK	OK
		Parameter			x1: Color 01: R 02: G 03:B 04: C 05: M 06: Y 90: ALL x2: Hue 0-255 x3: Chromatic value 0-255 x4: Brightness 0-255 INIT
		AXESADJ?	N/A	OK	OK
		Return code			0-255 Return the hue, chromatic value, and brightness of each color in the order of R, G, B, C, M, Y
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 00: ALL 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10 Memory area 1 to 8 are excluded from initialized or delete when if these status were locked.
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5 INIT (Setting only)
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	OK
		SHRF?	N/A	OK	OK
		Parameter/Return code	-		0-255 INC/DEC/INIT
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	OK
		SHRS?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DESTRENGTH x1	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	OK
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	OK
		CLRSPACE?	N/A	OK	OK
		Parameter/Return code			00:Auto 01: BT.709 02:BT.2020
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	OK
		DYNRANGE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: SDR 21:HDR10/HDR10+ 30: HLG
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	OK
		HDRPQ?	N/A	OK	OK
		Parameter/Return code			01-16: HDR10 Mode
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	OK
		HDRHLG?	N/A	OK	OK
		Parameter/Return code			01-16: HLG Mode
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	OK
		Parameter			x1: Adjustment item 01: R 02: G 03: B 04: All x2: Level setting 00: Off (Only x1=01) 01~08: Level1~8 FF: All x3: Adjustment item 0-255 INIT/INC/DEC
		GRAYSCALE? X1	N/A	N/A	OK
		Parameter			LENS=x1 x1: 0-1023 A/D converted value
		Return code			Level value: 01-0B Adjustment value: 000-255
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	OK
		BOXPATTERN?	N/A	OK	OK
		Parameter/Return code			x1: Pattern 00: Off 01: On x2: R 0-1023 x3: G 0-1023 x4: B 0-1023 x5: Size 0-100
	Set/Confirmation scean adaptive gammma set	SCENEGAMMA x1	N/A	OK	N/A
		SCENEGAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
		CONTENHANCE x1	N/A	OK	OK
		CONTENHANCE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	---
		VOL?	N/A	OK	---
		Parameter/Return code			---
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound mode	SOUND x1	N/A	OK	N/A
		SOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation clear voice	CLEARVOICE x1	N/A	OK	N/A
		CLEARVOICE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation virtual surround	VIRTUALSURROUND x1	N/A	OK	N/A
		VIRTUALSURROUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound space	SOUNDAREA x1	N/A	OK	N/A
		SOUNDAREA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation bass extension	BASSBOOST x1	N/A	OK	N/A
		BASSBOOST?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000
Uniformity	CB	N/A
HDR	CC	OK
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A
Screen Mirroring1	B3	N/A
Screen Mirroring2	B4	N/A
Light Output	DA	OK
USB-A	B5	N/A
USB-B	B6	N/A
Projection	B7	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

ReturnCode	No.	
0000000000	00	
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	
0000000200	10	
0000000400	11	
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	
0002000000	26	
0004000000	27	
0008000000	28	
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
		Parameter/Return code			N/A
	Set/Confirmation auto loudness	AUTOLOUDNESS x1	N/A	OK	N/A
		AUTOLOUDNESS?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Set/Confirmation V mute	VMUTE x1	N/A	OK	N/A
		VMUTE?	N/A	OK	N/A
					N/A
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	OK
		Parameter/Return code			mode 00: Execute adjustment (Specifying coordinate) 01: LCD alignment correction setting 02: Adjustment color setting 03: Pattern color setting 04: Execute adjustment (Overall adjustment) INIT (Setting only) x 0000–270F (9999): Return x axis y 0000–270F (9999): Return y axis up/down 9D (-99)–00–63 (99): Vertical adjustment value left/right 9D (-99)–00–63 (99): Horizontal adjustment value param - LCD alignment correction setting (01) 00: OFF 01: ON - Adjustment color setting (02) 01: Red 02: Blue - Pattern color setting (03) 01: R/G/B 02: R/G 03: G/B
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	OK
		Parameter			mode 00: Acquisition of adjustment value (Specifying coordinate) 01: LCD alignment correction setting 02: Adjustment color setting 03: Pattern color setting 04: Acquisition of adjustment value (Overall adjustment) x 0000–270F (9999): Return x axis y 0000–270F (9999): Return y axis
		Return code			Acquisition of adjustment value (when "00" specified) Return the vertical adjustment value and the horizontal adjustment value param - Acquisition of LCD alignment correction (01) 00: OFF 01: ON - Acquisition of adjustment color (02) 01: Red 02: Blue - Acquisition of pattern color (03) 01: R/G/B 02: R/G 03: G/B
	Call of LCD alignment memory	POPLA x1	N/A	OK	OK
		Parameter/Return code			01: Memory 1 02: Memory 2 03: Memory 3
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	OK
		Parameter/Return code			01: Memory 1 02: Memory 2 03: Memory 3
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	OK
		Parameter/Return code			01: Memory 1 02: Memory 2 03: Memory 3
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip horizontal OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	N/A
		MSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Reset All	INITALL	N/A	OK	N/A
	Reset All	INITALL2 x1	N/A	OK	OK
		Parameter/Return code			x1 = Initializing target (Hex) bit 15 : Reserved bit 14: Reserved bit 13: Reserved bit 12: Reserved bit 11: Reserved bit 10: Memory bit 9: Multi-Projection bit 8: Interactive bit 7: Pen/Touch bit 6: Network bit 5: Management bit 4: Operation bit 3: Display bit 2: Installation bit 1: Signal I/O bit 0: Image Set as 0: Do not perform initialize Set as 1: Perform initialize *This parameter is bit assigned. Please take care to use this command.
	Factory Reset	INITFACTORY x1	N/A	OK	N/A
		Parameter			N/A
	Set User default Set	USERDATASET x1	N/A	OK	N/A
		Parameter			N/A
	Reset by User default Set	INITUSERDATA x1	N/A	OK	N/A
		Parameter			N/A
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps FF: USB
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Registration of lens position	PUSHLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Deletion of lens position	ERASELP xx	N/A	OK	OK
		Parameter			00: ALL 01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	OK
		KREVERSE?	N/A	OK	OK
		Parameter/Return code			10:OFF 11:ON INIT (Setting only)
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	OK
		STANDBYCONF?	N/A	—	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
	Set/Confirmation USB power delivery	USBSUPPLY x1	N/A	OK	N/A
		USBSUPPLY?	N/A	OK	N/A
		Parameter/Return code			OK
	Set/Confirmation batch setup range	BARANGE x1	N/A	OK	OK
		BARANGE?	N/A	OK	00: All.L 01: Limited
		Parameter/Return code			N/A
		MENUCOLOR x1	N/A	OK	OK
		MENUCOLOR?	N/A	OK	OK
		Parameter/Return code			00: Black 01: White INIT (Setting only)
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	N/A
		HFUNC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	OK
		Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK
		AMXDDDP?	N/A	OK	OK
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT (Setting only)
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	LS12000/LS11000
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	OK	N/A
		WDMTMODE?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	OK	N/A
		WDCH?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: Laser operation time
	Getting operation time	ONTIME?	N/A	OK	OK
		Return code			ONTIME=x1 x1: Operation Time
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Setting/Confirmation log saving location	LOGTO	N/A	OK	OK
		LOGTO?	N/A	OK	OK
		Parameter/Return code			00: Internal Memory 01: USB and Internal Memory
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	LS12000/LS11000

Source code

OK:Available / N/A: Return "ERR")

Source	Code	LS12000/LS11000

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cool down 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only) If <Auto> is selected (setting only) x1: mode x2: Auto (=30)
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Home	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK (TW5750)
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	OK (TW5800//TW5820/TW5700/HC2250/HC2200)
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	OK (USB) (TW5750)
	53	N/A
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source (SDI)	60	N/A
	61	N/A
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00: Normal 01: ECO INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	N/A
		ZOOM?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
	Set/Confirmation PJ installation	AUTOINSTL x1	N/A	OK	N/A
		AUTOINSTL?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	OK (TW5750 only)
		AUTOSEARCH?	N/A	OK	OK (TW5750 only)
		Parameter/Return code			00:Off 01:ON
	Set/Confirmation enable source Set	ENSRC x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
		ENSRC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200
Power	3B	OK
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Home	30	OK (TW5750)
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Computer	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	OK
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2) (TW5750)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (USB) (TW5750)
	F2 (Video)	OK (HDMI1, HDMI2)
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to ":".		30 HDMI 52 USB (TW5750) A0 HDMI2

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1: Adjustment Value 0-255 INC/DEC/INIT
		SHARP?	N/A	OK	OK
		SHARP? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	N/A
		HPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	N/A
		VPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	N/A
		TRACKING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming sync value	SYNC xxx	N/A	OK	N/A
		SYNC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Dark Gamma Uplift INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 – Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x1 of GAMMALV command
		Return code			0-255
	Set/Confirmation RGBCMY Set value	AXESADJ x1 x2 x3 x4	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute	3E	OK
Color Mode	3F	N/A
Pattern	4B	N/A
Aspect	20	N/A
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	OK
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
		Parameter			x1: Color 01: R 02: G 03:B 04: C 05: M 06: Y 90: ALL x2: Hue 0-255 x3: Chromatic value 0-255 x4: Brightness 0-255 INIT
		AXESADJ?	N/A	OK	OK
		Return code			0-255 Return the hue, chromatic value, and brightness of each color in the order of R, G, B, C, M, Y
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 00: ALL 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code	-		N/A
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	N/A
		DYNRANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	N/A
		HDRPQ?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	N/A
		HDRHLG?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	N/A
		Parameter			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	N/A
Pause	D3	N/A
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	N/A
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	N/A
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

ReturnCode	No.	
0000000000	00	
0000000001	01	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
		GRAYSCALE? X1	N/A	N/A	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	N/A
		BOXPATTERN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation scean adaptive gammma set	SCENEGAMMA x1	N/A	OK	N/A
		SCENEGAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound mode	SOUND x1	N/A	OK	OK (TW5800/TW5820/TW5700/HC2250/HC2200)
		SOUND?	N/A	OK	OK (TW5800/TW5820/TW5700/HC2250/HC2200)
		Parameter/Return code			01: Standard 02: Vocal 03: Music 04: Movie INIT (Setting only)
	Set/Confirmation clear voice	CLEARVOICE x1	N/A	OK	N/A
		CLEARVOICE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation virtual surround	VIRTUALSURROUND x1	N/A	OK	N/A
		VIRTUALSURROUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound space	SOUNDAREA x1	N/A	OK	N/A
		SOUNDAREA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation bass extension	BASSBOOST x1	N/A	OK	N/A
		BASSBOOST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation auto loudness	AUTOLOUDNESS x1	N/A	OK	N/A
		AUTOLOUDNESS?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Set/Confirmation V mute	VMUTE x1	N/A	OK	N/A
		VMUTE?	N/A	OK	N/A
					N/A
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	
0000000200	10	
0000000400	11	
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	
0002000000	26	
0004000000	27	
0008000000	28	
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip horizontal OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps FF: USB
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	N/A
		STANDBYCONF?	N/A	—	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
	Set/Confirmation USB power delivery	USBSUPPLY x1	N/A	OK	N/A
		USBSUPPLY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation batch setup range	BARANGE x1	N/A	OK	N/A
		BARANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK (TW5750 only)
		AUTOHOME?	N/A	OK	OK (TW5750 only)
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK (TW5750 only)
		HFUNC? x1	N/A	OK	OK (TW5750 only)
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 01: Power consumption 06: Auto Iris 07: Keystone 08: Info
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	OK	N/A
		WDMTMODE?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	OK	N/A
		WDCH?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	TW5800/TW5820/TW5700/TW5750/ HC2250/HC2200
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	OK
		BTAUDIO?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: Lamp operation time
	Getting operation time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected (2D) 02: Signal detected (3D) FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Setting/Confirmation log saving location	LOGTO	N/A	OK	OK (TW5750 only)
		LOGTO?	N/A	OK	OK (TW5750 only)
		Parameter/Return code			00: Internal Memory 01: USB and Internal Memory
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	TW5800/TW5820/ TW5700/TW5750/ HC2250/HC2200

Source code

OK:Available / N/A: Return "ERR")

Source	Code	TW5800/TW5820/TW5700/TW5750 / HC2250/HC2200

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-12
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Laser ON 02: Warmup 03: Cool down 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	N/A
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	OK
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 06: Arc Correction
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	N/A
		ASPECT?	N/A	OK	N/A
		Parameter/Return code			N/A N/A
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	N/A
		ZOOM?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	OK	OK	OK
		FOCUS?	OK	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-12
Operation		
Power	01	N/A
Standby	02	N/A
Menu	03	N/A
Home	04	N/A
ESC	05	N/A
Enter	16	N/A
Up	35	N/A
Down	36	N/A
Left	37	N/A
Right	38	N/A
Source		**N/A**
Auto	14	N/A
Source	48	N/A
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-12
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	N/A
	31	N/A
	32	N/A
	33	N/A
	34	N/A
	35	N/A
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A–4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-12
		Parameter/Return code			Powered Focus: Parameter: 16-207 MIN/MAX/OFF/INIT/INC/DEC Return Code: Focus position: 16-207
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A
		OVSCAN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation PJ installation	AUTOINSTL x1	N/A	OK	OK
		AUTOINSTL?	N/A	OK	OK
		Parameter/Return code			00:Auto 01-02, 08-1E, 20-2D: Manual A0: Custom1 A1: Custom2 F0:Wide F1:Normal INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	OK
		RESOL?	N/A	OK	OK
		Parameter/Return code			00:Auto 01-02, 08-1E, 20-2D: Manual A0: Custom1 A1: Custom2 F0:Wide F1:Normal INIT (Setting only)
	Auto source search	AUTOSEARCH x1	N/A	OK	OK
		AUTOSEARCH?	N/A	OK	OK
		Parameter/Return code			00:Off 01:ON
	Set/Confirmation enable source Set	ENSRC x1 x2	N/A	OK	OK
		Parameter/Return code			x1 = Source Code Refer the "Source code" x2 = Input port control 00: OFF (Disable) 01: ON (Enable)
		ENSRC? x1	N/A	OK	OK
		Parameter/Return code			ENSRC=x1 x2 x1 = Source Code Refer the "Source code" x2 = Input port control 00: OFF (Disable) 01: ON (Enable)
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1: Adjustment Value 0-255 INC/DEC/INIT
		SHARP?	N/A	OK	OK
		SHARP? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-12
IR	Code	EF-12
Power	3B	N/A
Power ON	A1	N/A
Power OFF	6C	N/A
Menu	3C	N/A
Home	30	N/A
ESC	3D	N/A
Enter	49	N/A
Pointer: Up	58	N/A
Pointer: Down	59	N/A
Pointer: Left	5A	N/A
Pointer: Right	5B	N/A
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Computer	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	N/A
SDI	A3	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-12
Extended DVI/HDMI	A0	N/A
	A1	N/A
	A2	N/A
	A3	N/A
	A4	N/A
	A5	N/A
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	N/A
	F1 (PC)	N/A
	F2 (Video)	N/A
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "0A".		N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-12
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 23: Vivid INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	N/A
		HPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	N/A
		VPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	N/A
		TRACKING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming sync value	SYNC xxx	N/A	OK	N/A
		SYNC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	N/A
		OFFSETR?	N/A	OK	N/A
		Parameter/Return code			N/A
		OFFSETG xxx	N/A	OK	N/A
		OFFSETG?	N/A	OK	N/A
		Parameter/Return code			N/A
		OFFSETB xxx	N/A	OK	N/A
		OFFSETB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	N/A
		GAINR?	N/A	OK	N/A
		Parameter/Return code			N/A
		GAING xxx	N/A	OK	N/A
		GAING?	N/A	OK	N/A
		Parameter/Return code			N/A
		GAINB xxx	N/A	OK	N/A
		GAINB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
		GAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
		Parameter			N/A
		GAMMALV? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Confirming of the color	CSEL?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-12
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute	3E	N/A
Color Mode	3F	N/A
Pattern	4B	N/A
Aspect	20	N/A
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	N/A
Volume-	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-12

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-12
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	N/A
		IMGPRESET?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code	-		N/A
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	N/A
		DYNRANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	N/A
		HDRPQ?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	N/A
		HDRHLG?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	N/A
		Parameter			N/A
		GRAYSCALE? X1	N/A	N/A	N/A
		Parameter			N/A
		Return code			
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	N/A
		BOXPATTERN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation scean adaptive gammma set	SCENEGAMMA x1	N/A	OK	OK
		SCENEGAMMA?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound mode	SOUND x1	N/A	OK	OK
		SOUND?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-12
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	N/A
Stop	D2	N/A
Pause	D3	N/A
Rewind	D4	N/A
Fast Forward	D5	N/A
Backward	D6	N/A
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	N/A
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

ReturnCode	No.	
0000000000	00	
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	
0000000200	10	
0000000400	11	
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	
0002000000	26	
0004000000	27	
0008000000	28	
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-12

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-12
		Parameter/Return code			05: Theatre 06: TV 07: Studio 08: Stadium 09: Concert 0A: Karaoke mode INIT (Setting only)
	Set/Confirmation clear voice	CLEARVOICE x1	N/A	OK	OK
		CLEARVOICE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: High INIT (Setting only)
	Set/Confirmation virtual surround	VIRTUALSURROUND x1	N/A	OK	OK
		VIRTUALSURROUND?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: High INIT (Setting only)
	Set/Confirmation sound space	SOUNDAREA x1	N/A	OK	OK
		SOUNDAREA?	N/A	OK	OK
		Parameter/Return code			01: Diagonally left 02: Front 03: Diagonally right INI (Setting only)
	Set/Confirmation bass extension	BASSBOOST x1	N/A	OK	OK
		BASSBOOST?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Set/Confirmation auto loudness	AUTOLOUDNESS x1	N/A	OK	OK
		AUTOLOUDNESS?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	N/A
		MUTE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation V mute	VMUTE x1	N/A	OK	OK
		VMUTE?	N/A	OK	OK
					ON : Execute "V mute" OFF: Cancel "V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	N/A
		HREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	N/A
		MSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps FF: USB
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-12

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-12

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-12
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	N/A
		STANDBYCONF?	N/A	—	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
	Set/Confirmation USB power delivery	USBSUPPLY x1	N/A	OK	N/A
		USBSUPPLY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation batch setup range	BARANGE x1	N/A	OK	N/A
		BARANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	N/A
		HFUNC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-12

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-12

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-12
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	OK	N/A
		WDMTMODE?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	OK	N/A
		WDCH?	—	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: Laser operation time
	Getting operation time	ONTIME?	N/A	OK	OK
		Return code			ONTIME=x1 x1: Operation Time
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	N/A
		Return code			N/A
	Confirmation source list	SOURCELISTA?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirmation log saving location	LOGTO	N/A	OK	N/A
		LOGTO?	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-12

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-12

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Laser ON 02: Warmup 03: Cool down 05: Abnormality standby 09: USB Power standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	OK
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	N/A
		ASPECT?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	N/A
Home	04	N/A
ESC	05	N/A
Enter	16	N/A
Up	35	N/A
Down	36	N/A
Left	37	N/A
Right	38	N/A
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	OK (USB)
	53	N/A
	54	N/A
	55	N/A
	56	OK (Screen Mirroring) (EB-11 only)
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A
	62	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
					N/A
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	N/A
		LUMINANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Luminance Level setting	LUMLEVEL level	N/A	OK	OK
		LUMLEVEL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Digital Zoom: 0-255 INIT/INC/DEC (Setting only)
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A
		OVSCAN?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1: Adjustment Value 0-255 INC/DEC/INIT
		SHARP?	N/A	OK	OK
		SHARP? x1	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	EF-10/11
Power	3B	OK
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Home	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Computer	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	OK
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2) (EF-10 only)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	N/A
	F1 (PC)	N/A
	F2 (Video)	N/A
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items		30 HDMI1 (EF-10) 30 HDMI (EF-11) 52 USB 56 Screen Mirroring (EF-11) A0 HDMI2 (EF-10)
Note: Space " " is replaced to "%A%".		

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 23: Vivid INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	N/A
		HPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	N/A
		VPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	N/A
		TRACKING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming sync value	SYNC xxx	N/A	OK	N/A
		SYNC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 / Gamma 2.0 21: Setting 1 / Gamma 2.1 22: Setting 0 / Gamma 2.2 23: Setting -1 / Gamma 2.3 24: Setting -2 / Gamma 2.4 F0: Custom INIT (設定のみ)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 – Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x1 of GAMMALV command
		Return code			0-255
	Set/Confirmation RGBCMY Set value	AXESADJ x1 x2 x3 x4	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute	3E	OK
Color Mode	3F	N/A
Pattern	4B	N/A
Aspect	20	N/A
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	OK
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
		Parameter			x1: Color 01: R 02: G 03:B 04: C 05: M 06: Y 90: ALL x2: Hue 0-255 x3: Chromatic value 0-255 x4: Brightness 0-255 INIT
		AXESADJ?	N/A	OK	OK
		Return code			0-255 Return the hue, chromatic value, and brightness of each color in the order of R, G, B, C, M, Y
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 00: ALL 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	N/A
		IMGPRESET?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code	-		N/A
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	N/A
		DYNRANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	N/A
		HDRPQ?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	N/A
		HDRHLG?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	N/A
		Parameter			N/A
		GRAYSCALE? X1	N/A	N/A	N/A
		Parameter			N/A
		Return code			
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	N/A
		BOXPATTERN?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	N/A
Pause	D3	N/A
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	N/A
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	N/A
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

ReturnCode	No.	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
		Parameter/Return code			N/A
	Set/Confirmation scean adaptive gammma set	SCENEGAMMA x1	N/A	OK	OK
		SCENEGAMMA?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation sound mode	SOUND x1	N/A	OK	OK
		SOUND?	N/A	OK	OK
		Parameter/Return code			01: Standard 02: Vocal 03: Music 04: Movie
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip horizontal OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	N/A
		MSEL?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	
0000000200	10	Power
0000000400	11	
0000000800	12	
0000001000	13	
0000002000	14	Volume+
0000004000	15	Volume-
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	
0002000000	26	
0004000000	27	
0008000000	28	
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 192000bps 02 : 384000bps 03 : 576000bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 192000bps 02 : 384000bps 03 : 576000bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	OK
		OSDROTATE?	N/A	OK	OK
		Parameter/Return code			00: Off 01: Rotate 90 degree (Clockwise) 02: Rotate 90 degree (Counter Clockwise)
	Standby confirmation setting	STANDBYCONF mode	N/A	—	OK
		STANDBYCONF?	N/A	—	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
	Set/Confirmation USB power delivery	USBSUPPLY x1	N/A	OK	N/A
		USBSUPPLY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation batch setup range	BARANGE x1	N/A	OK	N/A
		BARANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	N/A
		HFUNC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			OK (EF-11 only)
		WDPWR?			OK (EF-11 only)
		Parameter/Return code			00: OFF 01: ON
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	OK (EF-11 only)
		WDNAME?	N/A	OK	OK (EF-11 only)
		Parameter/Return code			x1: Display name (1-32 chracter)
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	OK (EF-11 only)
		WDIF?	N/A	OK	OK (EF-11 only)
		Parameter/Return code			0A: 802.11g/n 0E: 802.11a/g/n 1E: 802.11a/g/n/ac
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	OK (EF-11 only)
		WDPERF?	N/A	OK	OK (EF-11 only)
		Parameter/Return code			01: Setting1 (Fine) 02: Setting2 03: Setting3 04: Setting4 (Fast)
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	OK (EF-11 only)
		WDMODE?	N/A	OK	OK (EF-11 only)
		Parameter/Return code			00: Basic 01: Extended
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	OK	OK (EF-11 only)
		WDMTMODE?	—	OK	OK (EF-11 only)
		Parameter/Return code			01: Interruptions OK 02: No interruptions
	Screen Mirroring Channel setting	WDCH x1	—	OK	OK (EF-11 only)
		WDCH?	—	OK	OK (EF-11 only)
		Parameter/Return code			x1: Channel 1,6,11 36,40,44,48 52,56,60,64 149,153,157,161,165
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	OK (EF-11 only)
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	OK (EF-11 only)
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: Laser operation time
	Getting operation time	ONTIME?	N/A	OK	OK
		Return code			ONTIME=x1 x1: Operation Time
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Setting/Confirmation log saving location	LOGTO	N/A	OK	N/A
		LOGTO?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EF-10/11
		Parameter/Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EF-10/11

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EF-10/11

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cool down 04: Standby Mode (Network ON) /Communication standby 05: Abnormality standby 09: A/V standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	OK
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 30: Auto 40: Full 50: Zoom 60: Native INIT (Setting Only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Home	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	OK
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
INPUT1	10	OK (TW750/TW710/HC1080 only)
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK (TW750/TW710/HC1080 only)
VIDEO(RCA)	41	OK (Video) (TW750/TW710/HC1080 only)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	OK (USB Display)
	52	OK (USB)
	53	OK(LAN)
	54	N/A
	55	N/A
	56	OK (Screen Mirroring) (TW750/TW710/HC1080 only)
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
					<Auto> x1: mode x2: Parameter of "Auto" =30
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:High 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			E-Zoom (Zoom in/Zoom out) 0-255 INIT/INC/DEC (Setting only)
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	OK (TW750/TW710/HC1080 only)
		RESOL?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			00:Auto F0:Wide F1:Normal INIT (Setting only)
	Auto source search	AUTOSEARCH x1	N/A	OK	OK
		AUTOSEARCH?	N/A	OK	OK
		Parameter/Return code			00:Off 01:ON
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
Power	3B	OK
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Home	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	OK
InputA/InputB	6B	N/A
input A	4E	N/A
Computer	43	OK
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2) (TW750/TW710/HC1080 only)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1: Adjustment Value 0-255 INC/DEC/INIT
		SHARP?	N/A	OK	OK
		SHARP? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 0C: Bright Cinema 0D: Game 15: Cinema INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK (TW750/TW710/HC1080 only)
		HPOS?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK (TW750/TW710/HC1080 only)
		VPOS?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK (TW750/TW710/HC1080 only)
		TRACKING?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK (TW750/TW710/HC1080 only)
		SYNC?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	N/A
		MPEGNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
SourceSearch	67	OK
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	OK
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	OK
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	OK
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	OK
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	OK
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK <TW740/HC880> Computer, USB Display, LAN <TW750/TW710/HC1080> Computer, USB Display, USB, LAN, Screen Mirroring
	F2 (Video)	OK <TW740/HC880> HDMI <TW750/TW710/HC1080> HDMI1, HDMI2, Video
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "0A".		10 Computer *1 30 HDMI 41 Video *1 51 USB Display 52 USB 53 LAN 56 Screen Mirroring *1 A0 HDMI2 *1 *1 TW750/TW710/HC1080 only

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
		GAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
		Parameter			N/A
		GAMMALV? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	N/A
		IMGPRESET?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code	-		N/A
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	N/A
		DYNRANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	N/A
		HDRPQ?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	N/A
		HDRHLG?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	N/A
		Parameter			N/A
		GRAYSCALE? X1	N/A	N/A	N/A
		Parameter			N/A
		Return code			
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	N/A
		BOXPATTERN?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	N/A
ID	8F	OK
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	OK
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	N/A
Stop	D2	N/A
Pause	D3	N/A
Rewind	D4	N/A
Fast Forward	D5	N/A
Backward	D6	N/A
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	N/A
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			HDMI Audio output setting -mode 00: Default (HDMI) 03: Audio input (L/R) INIT (Setting only) -target source 30: HDMI1 A0: HDMI2
		AUDIO? [source]	N/A	OK	OK
		Parameter			Refer to the source parameter of "AUDIO" command
		Return code			Refer to the mode parameter of "AUDIO" command
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	OK
		AVOUT?	N/A	OK	OK
		Parameter/Return code			00: While projecting 01: Always (A/V Standby) INIT (Setting only)
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK
		FREEZE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	OK (US only) (TW750/TW710/HC1080 only)
		CCAP?	N/A	OK	OK (US only) (TW750/TW710/HC1080 only)
		Parameter/Return code			00:OFF 11:CC1 12:CC2 F0:Changing cyclically (Setting only) INIT (Setting only)
	Split screen function	SPS x1 x2	NG	OK	OK
		Parameter			SPS 01 00 : Split screen OFF 01 01 : Split screen ON SPS 02 00 : Both screen size are same 02 01 : Left screen become bigger than right 02 02 : Right screen become bigger than left SPS 03 xx : Source change of left screen *1 SPS 04 xx : Source change of right screen *1 SPS 05 : Switch left and right screen. *1 Please refer the "source code"
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

ReturnCode	No.	
0000000000	00	
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	
0000000200	10	
0000000400	11	
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	
0002000000	26	
0004000000	27	
0008000000	28	
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
		Parameter/Return code			ON : Flip horizontal OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	OK
		PROJID?	N/A	OK	OK
		Parameter/Return code			00: OFF 01-09: ID1-ID9 INIT (Setting only)
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	OK
		RCLT?	N/A	OK	OK
		Parameter/Return code			00: Turn off the front/rear receiver 01: Turn ON the only front receiver 02: Turn ON the only rear receiver 03: Turn ON the front/rear FF: Turn ON the all receiver (setting only) INIT: Initialize (setting only)
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	N/A
		STANDBYCONF?	N/A	—	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	OK
		PSDISP?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
	Set/Confirmation USB power delivery	USBSUPPLY x1	N/A	OK	N/A
		USBSUPPLY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Set/Confirmation batch setup range	BARANGE x1	N/A	OK	OK
		BARANGE?	N/A	OK	OK
		Parameter/Return code			00: ALL 01: Limited
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 00: Color Mode 01: Lamp consumption 02: Test Pattern 03: Network Settings 04: Eco settings 05: Closed Caption (US only) *1 *1 TW750/TW710/HC1080 only
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Wireless LAN ON
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			OK (TW750/TW710/HC1080 only)
		WDPWR?			OK (TW750/TW710/HC1080 only)
		Parameter/Return code			00: OFF 01: ON
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	OK (TW750/TW710/HC1080 only)
		WDNAME?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			x1: Display name (1-32 chracter)
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	OK (TW750/TW710/HC1080 only)
		WDIF?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			0A: 802.11g/n 0E: 802.11a/g/n 1E: 802.11a/g/n/ac
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	OK (TW750/TW710/HC1080 only)
		WDPERF?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			01: Setting1 (Fine) 02: Setting2 03: Setting3 04: Setting4 (Fast)
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	OK (TW750/TW710/HC1080 only)
			N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			00: PIN/PBC 01: PIN
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	OK (TW750/TW710/HC1080 only)
		WDMODE?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			00: Basic 01: Extended
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	OK	OK (TW750/TW710/HC1080 only)
		WDMTMODE?	—	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			01: Interruptions OK 02: No interruptions
	Screen Mirroring Channel setting	WDCH x1	—	OK	OK (TW750/TW710/HC1080 only)
		WDCH?	—	OK	OK (TW750/TW710/HC1080 only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW750/TW710/HC 1080 TW740/HC 880
		Parameter/Return code			x1: Channel 1,6,11 36,40,44,48 52,56,60,64 149,153,157,161,165
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	OK (TW750/TW710/HC1080 only)
		WDCNTNOTIFY?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			00: OFF 01: ON
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	OK (TW750/TW710/HC1080 only)
		WDPINNOTIFY?	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			00: OFF 01: ON
	Initialize Screen Mirroring	WDINIT	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	OK (TW750/TW710/HC1080 only)
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: Lamp operation time
	Getting operation time	ONTIME?	N/A	OK	OK
		Return code			ONTIME=x1 x1: Operation Time
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Setting/Confirmation log saving location	LOGTO	N/A	OK	OK
		LOGTO?	N/A	OK	OK
		Parameter/Return code			00: Internal Memory 01: USB and Internal Memory
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW750/TW710/HC 1080 TW740/HC 880

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	OK
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Home	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	OK(LAN)
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
					<Auto> x1: mode x2: Parameter of "Auto" =30
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	N/A
		LUMINANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Luminance Level setting	LUMLEVEL level	N/A	OK	OK
		LUMLEVEL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1[%]])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	OK
		IMGSHIFT?	N/A	OK	OK
		Parameter/Return code			x: Shift position (X) -2～2 y: Shift position (Y) -2～2
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Digital Zoom 0-255 INIT/INC/DEC (Setting only)
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Home	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1(Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	OK
SourceSearch	67	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	Ok (HDMI3)
	C1	(Digital-RGB)
	C2	N/A
	C3	(RGB-Video)
	C4	(YCbCr)
	C5	(YPbPr)
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (LAN)

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK
		Parameter			x1: 0-255 INC/DEC/INIT x2: Specific setting 00: Standard 01: Thin Line Enhancement 02: Thick Line Enhancement
		SHARP?	N/A	OK	N/A
		SHARP? x1	N/A	OK	OK
		Parameter			Please refer x2 of sharpness setting
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 0C: Bright Cinema 0D: Game 15: Cinema INIT (Setting Only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	N/A
		HPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	N/A
		VPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	N/A
		TRACKING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming sync value	SYNC xxx	N/A	OK	N/A
		SYNC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute(Blank)	3E	OK
Color Mode	3F	N/A
Pattern	4B	N/A
Aspect	20	N/A
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	F2 (Video)	OK （HDMI1,HDMI2,HDMI3）
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "0A".		30 HDMI1 53 LAN A0 HDMI2 C0 HDMI3

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custom INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 – Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x2 of GAMMALV command
		Return code			0-255
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A N/A N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 - 0A: Memory 10 Memory area 1 to 8 are excluded from initalized or delete when if these status were locked.
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	OK
		4KENHANCE?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On
	Setting/Confirming	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	OK
		SHRF?	N/A	OK	OK
		Parameter/Return code	-		0-255 INC/DEC/INIT
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	OK
		SHRS?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Parameter/Return code			0-255
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	OK
		CLRSPACE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: BT.709 02: BT.2020
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	OK
		DYNRANGE?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	OK
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	OK
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
		Parameter/Return code			00: Auto 01: SDR 20: HDR10 30: HLG
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	OK
		HDRPQ?	N/A	OK	OK
		Parameter/Return code			01-16: HDR10 Mode
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	OK
		HDRHLG?	N/A	OK	OK
		Parameter/Return code			01-16: HLG Mode
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	OK
		Parameter			x1: Adjustment Category 01: Color Adjustment R 02: Color Adjustment G 03: Color Adjustment B 04: Color Adjustment All x2: Level setting 00: Off (Only x1=01) 01–08: Level1–8 x3: Adjustment Value (Except x1=01) 0-255 INIT/INC/DEC
		GRAYSCALE? X1	N/A	N/A	OK
		Parameter			x1: Adjustment Category 01: Color Adjustment R 02: Color Adjustment G 03: Color Adjustment B
		Return code			Reply the each setting level or level value of specified the adjustment category Level Value: 01-08 Adjustment Value :000-255
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	OK
		BOXPATTERN?	N/A	OK	OK
		Parameter/Return code			x1: Pattern 00: OFF 01: ON x2: Color Adjustment R 0-1023 *It omissible 01=00 when setting only. x3: Color Adjustment G *It omissible 01=00 when setting only. x4: Color Adjustment B *It omissible 01=00 when setting only. x5: Display Size *It omissible 01=00 when setting only.
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A N/A N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blanck" OFF: Cancel "Blanck" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
	Call of LCD alignment memory	POPLA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	N/A
		HREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip holizonal OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 384000bps 03 : 57600bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 384000bps 03 : 57600bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	OK
		STANDBYCONF?	N/A	—	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	OK
		FASTBOOT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: 20min 02: 60min 03: 90min
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
	Set/Confirmation USB power delivery	USBSUPPLY x1	N/A	OK	OK
		USBSUPPLY?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 01: Lamp consumption 06: Auto Iris 07: Key Stone 08: Info
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	OK
		Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK
		AMXDDDP?	N/A	OK	OK
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT (Setting only)
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			x1: 00: OFF 01: Wireless LAN ON
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	○	N/A
		WDMTMODE?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	○	N/A
		WDCH?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-LS500W/LS500B
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: Laser operation time
	Getting operation time	ONTIME?	N/A	OK	OK
		Return code			ONTIME=x1 x1: Operation Time
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected (2D) 02: Signal detected (3D) FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Setting/Confirmation log saving location	LOGTO	N/A	OK	OK
		LOGTO?	N/A	OK	OK
		Parameter/Return code			00: embedded memory 01: USB or internal memory
	Getting serial number	SNO?	N/A	OK	OK
		Return code			x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	OK
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			<EH/CH-TW7000/Home Cinema 3200> 00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Home	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	OK(LAN)
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
					<EH-TW7100/CH-TZ3000/Home Cinema 3800/3810> 00: Normal 30: Auto 40: Full 50: Zoom 80: Anamorphic 90: Hsqueeze INIT (Setting only) <Auto> x1: mode x2: Parameter of "Auto" =30
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco 02:Medium INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	N/A
		ZOOM?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Home	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1(Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (LAN)
	F2 (Video)	OK (HDMI1,HDMI2)
	F3	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK
		Parameter			x1: 0-255 INC/DEC/INIT x2: Specific setting 00: Standard 01: Thin Line Enhancement 02: Thick Line Enhancement
		SHARP?	N/A	OK	N/A
		SHARP? x1	N/A	OK	OK
		Parameter			Please refer x2 of sharpness setting
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema INIT (Setting Only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	N/A
		HPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	N/A
		VPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	N/A
		TRACKING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming sync value	SYNC xxx	N/A	OK	N/A
		SYNC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
LAN	8A	OK
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute(Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	OK
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "0A".		30 HDMI1 53 LAN A0 HDMI2

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custom INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 ~ Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x2 of GAMMALV command
		Return code			0-255
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A N/A N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 . 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 . 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 . 0A: Memory 10 *TW7100/TZ3000/HC 3800/HC 3810 series only Memory area 1 to 8 are excluded from initialized or delete when if these status were locked.
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	OK
		4KENHANCE?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On
	Setting/Confirming	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	OK
		SHRF?	N/A	OK	OK
		Parameter/Return code	-		0-255 INC/DEC/INIT
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	OK
		SHRS?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Parameter/Return code			0-255
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	OK
		CLRSPACE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: BT.709 02: BT.2020
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	OK
		DYNRANGE?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	OK
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK (TW7100/TZ3000/ HC3800/HC3810)
Anamorphic	9B	OK (TW7100/TZ3000/ HC3800/HC3810)
H Squeeze	9C	OK (TW7100/TZ3000/ HC3800/HC3810)
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	OK
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	OK
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
		Parameter/Return code			00: Auto 01: SDR 20: HDR10 30: HLG
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	OK
		HDRPQ?	N/A	OK	OK
		Parameter/Return code			01-16: HDR10 Mode
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	OK
		HDRHLG?	N/A	OK	OK
		Parameter/Return code			01-16: HLG Mode
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	OK
		Parameter			x1: Adjustment Category 01: Color Adjustment R 02: Color Adjustment G 03: Color Adjustment B 04: Color Adjustment All x2: Level setting 00: Off (Only x1=01) 01–08: Level1–8 x3: Adjustment Value (Except x1=01) 0-255 INIT/INC/DEC
		GRAYSCALE? X1	N/A	N/A	OK
		Parameter			x1: Adjustment Category 01: Color Adjustment R 02: Color Adjustment G 03: Color Adjustment B
		Return code			Reply the each setting level or level value of specified the adjustment category Level Value: 01-08 Adjustment Value :000-255
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	N/A
		BOXPATTERN?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A N/A N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	OK <EH-TW7100/CH-TZ3000/ HC 3800/HC 3810>.
		AUDIOOUT?	N/A	OK	OK <EH-TW7100/CH-TZ3000/ HC 3800/HC 3810>
		Parameter/Return code			10:OFF (Normal) 11: ON (Revers)
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blanck" OFF: Cancel "Blanck" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown lefright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	OK

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip holizonal OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 192000bps 02 : 384000bps 03 : 576000bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 192000bps 02 : 384000bps 03 : 576000bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	OK
		STANDBYCONF?	N/A	—	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 01: Lamp consumption 06: Auto Iris 07: Key Stone 08: Info
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			x1: 00: OFF 01: Wireless LAN ON
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	○	N/A
		WDMTMODE?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	○	N/A
		WDCH?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7100/TW7000 CH-TZ3000/TW7000 Home Cinema 3800/3810/3200
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	OK
		BTAUDIO?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: LAMP operation time
	Getting operation time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected (2D) 02: Signal detected (3D) FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Setting/Confirmation log saving location	LOGTO	N/A	OK	OK
		LOGTO?	N/A	OK	OK
		Parameter/Return code			00: embedded memory 01: USB or internal memory
	Getting serial number	SNO?	N/A	OK	OK
		Return code			x1:Serial Number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			EH-TW9400/TW9400W 00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only) EH-TW8400/TW8400W 00: Normal 30: Auto 40: Full 50: Zoom 80: Anamorphic 90: Hsqueeze INIT (Setting only) <Auto> x1: mode x2: Parameter of "Auto" =30
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco 02:Medium INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	OK(D-Sub15)
	21	OK(RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	OK(LAN)
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59	N/A
	5A-5F	N/A
Extended Video source (SDI)	60	N/A
	61	N/A
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Digital Zoom: MIN/MAX/INC/DEC/OFF Return Code: Focus position: 0-1023
	Setting focus value	FOCUS xxx	OK	OK	OK
		FOCUS?	OK	OK	OK
		Parameter/Return code			Powerd Focus: MIN/MAX/INC/DEC/OFF Return Code: Focus position: 0-1023
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	OK
		Parameter			x1: Control command INC/DEC/MAX/MIN/OFF/INIT
		LENS?	OK	OK	OK
		Return code			x1: A/D converted value 0-4095
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	OK
		Parameter			x1: Control command INC/DEC/MAX/MIN/OFF/INIT
		HLENS?	OK	OK	OK
		Return code			x1: 0-4095 A/D converted value
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	OK
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK
		Parameter			x1: 0-255 INC/DEC/INIT x2: Specific setting 00: Standard 01: Thin Line Enhancement 02: Thick Line Enhancement
		SHARP?	N/A	OK	N/A
		SHARP? x1	N/A	OK	OK
		Parameter			Please refer x2 of sharpness setting
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	OK
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1(Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
LAN	8A	OK
LAN/USB	8A	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK（HDMI2）
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	OK(WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,LAN)
	F2 (Video)	OK （HDMI1, HDMI2）
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items		20 PC 30 HDMI1 53 LAN A0 HDMI2 D0 WirelessHD
Note: Space " " is replaced to "0A".		

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 17:3D Cinema 18: 3D Dynamic 20: B&W Cinema(EAI only) 22: Didital Cinema INIT (Setting Only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custom INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 – Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x2 of GAMMALV command
		Return code			0-255
	Setting/Confirming RGBCMY set value	AXESADJ x1 x2 x3 x4	N/A	OK	OK
		Parameter			x1: Color 01: R 02: G 03: B 04: C 05: M 06:Y 90: ALL x2: Hue 0-255 x3: Saturation 0-255 x4: Brightness 0-255 INIT
		AXESADJ	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
USB Display	85	N/A
USB	85	N/A
WirelessHD	A2	OK (TW9400W/TW8400W only)
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute(Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	OK
Not Used	62	N/A
Not Used	63	N/A
Lens	64	OK
Lens 1	65	OK
Lens 2	66	OK
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
		Return code			0-255 Returns hue, saturation, and brightness of each color in the order of R, G, B, C, M, Y
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A N/A N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10 *TW9400/TW8400 series only Memory area 1 to 8 are excluded from initialized or delete when if these status were locked.
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	OK
		4KENHANCE?	N/A	OK	OK
		Parameter/Return code			00: Off 01: Full HD
	Setting/Confirming	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	OK
		SHRF?	N/A	OK	OK
		Parameter/Return code	-		0-255 INC/DEC/INIT
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	OK
		SHRS?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Parameter/Return code			0-255
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	OK
		CLRSPACE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: BT.709 02: BT.2020
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	OK
		DYNRANGE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: SDR 20: HDR10 30: HLG
	Setting/Confirming HDR PQ setting	HDRPQ x1	N/A	OK	OK
		HDRPQ?	N/A	OK	OK
		Parameter/Return code			01-16: HDR10 Mode
	Setting/Confirming HDRHLG setting	HDRHLG x1	N/A	OK	OK
		HDRHLG?	N/A	OK	OK
		Parameter/Return code			01-16: HLG Mode
	Setting/Confirming GRAYSCALE setting	GRAYSCALE x1 x2 x3	N/A	N/A	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK (TW9400/9400W only)
Anamorphic	9B	OK (TW9400/9400W only)
H Squeeze	9C	OK (TW9400/9400W only)
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	OK
Bluetooth	CD	N/A
Calibration	B1	N/A
Grayscale	B2	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
		Parameter			x1: Adjustment Category 01: Color Adjustment R 02: Color Adjustment G 03: Color Adjustment B 04: Color Adjustment All x2: Level setting 01~08: Level1~8 x3: Adjustment Value 0-255 INIT/INC/DEC
		GRAYSCALE? X1	N/A	N/A	OK
		Parameter			x1: Adjustment Category 01: Color Adjustment R 02: Color Adjustment G 03: Color Adjustment B
		Return code			Reply the each setting level or level value of specified the adjustment category Level Value: 01-08 Adjustment Value :000-255
	Setting/Confirming BOXPATTERN setting	BOXPATTERN x1 [x2 x3 x4 x5]	N/A	OK	OK
		BOXPATTERN?	N/A	OK	OK
		Parameter/Return code			x1: Pattern 00: OFF 01: ON x2: Color Adjustment R 0-1023 *It omissible 01=00 when setting only. x3: Color Adjustment G *It omissible 01=00 when setting only. x4: Color Adjustment B *It omissible 01=00 when setting only. x5: Display Size *It omissible 01=00 when setting only.
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A N/A N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blanck" OFF: Cancel "Blanck" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip holizonal OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Registration of lens position	PUSHLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Deletion of lens position	ERASELP xx	N/A	OK	OK
		Parameter			00: ALL 01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	OK
		MENUDISP? mode	N/A	OK	OK
		Parameter/Return code			mode: Setting mode 01: OSD menu display position param=01 : OSD menu display position 00: Center 01: Left 02: Top Left 03: Top 04: Top Right 05: Right 06: Bottom Right 07: Bottom 08: Bottom Left INIT (Setting only)
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
	Standby confirmation setting	STANDBYCONF mode	N/A	—	OK
		STANDBYCONF?	N/A	—	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 01: Lamp consumption 06: Auto Iris 07: Key Stone 08: Info
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	OK
		Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK
		AMXDDDP?	N/A	OK	OK
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT(Setting only)
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			x1: 00: OFF 01: Wireless LAN ON
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9400/TW9400W/ TW8400/TW8400W/ PC 6050UB/HC 5050UB/ HC 5050UBe
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	○	N/A
		WDMTMODE?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	○	N/A
		WDCH?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: LAMP operation time
	Getting operation time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected (2D) 02: Signal detected (3D) FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Confirmation source list	SOURCELISTA?	N/A	OK	OK
		Return code			* Refer the "Source code"
	Getting serial number	SNO?	N/A	OK	OK
		Return code			x1:Serial Number
Interactive Function	Setting/Confirming touch unit power	ITRLC x1	N/A	OK	N/A
		ITRLC?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7400 Pro Cinema 4050 Home Cinema 4010
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only) N/A <Auto> x1: mode x2: Parameter of "Auto" =30
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco 02:Medium INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	2E-1E	N/A
	1F	N/A
INPUT2	20	OK (Dsub15)
	21	OK(RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	OK(LAN)
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59-5F	N/A
Extended Video source (SDI)	60	N/A
	61	N/A
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7400 Pro Cinema 4050 Home Cinema 4010
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Digital Zoom: MIN/MAX/INC/DEC/OFF (Setting only) Return Code: Focus position: 0-1023
	Setting focus value	FOCUS xxx	OK	OK	OK
		FOCUS?	OK	OK	OK
		Parameter/Return code			Powerd Focus: MIN/MAX/INC/DEC/OFF (Setting only) Return Code: Focus position: 0-1023
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	OK
		Parameter			x1: Control command INC/DEC/MAX/MIN/OFF/INIT
		LENS?	OK	OK	OK
		Return code			x1: A/D converted value 0-4095
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	OK
		Parameter			x1: Control command INC/DEC/MAX/MIN/OFF/INIT
		HLENS?	OK	OK	OK
		Return code			x1: 0-4095 A/D converted value
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	OK
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK
		Parameter			x1: 0-255 INC/DEC/INIT x2: Specific setting 00: Standard 01: Thin Line Enhancement 02: Thick Line Enhancement
		SHARP?	N/A	OK	N/A
		SHARP? x1	N/A	OK	OK
		Parameter			Please refer x2 of sharpness setting
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	OK
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1(Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
LAN	8A	OK
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all	OK
	F1 (PC)	OK (PC,LAN)
	F2 (Video)	OK (HDMI1,HDMI2)
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "\".".		N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7400 Pro Cinema 4050 Home Cinema 4010
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 17:3D Cinema 18: 3D Dynamic 20: B&W Cinema(EAI only) 22: Didital Cinema INIT (Setting Only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone0 – Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer x2 of GAMMALV command
		Return code			0-255
	Setting/Confirming RGBCMY set value	AXESADJ x1 x2 x3 x4	N/A	OK	OK
		Parameter			x1: Color 01: R 02: G 03: B 04: C 05: M 06:Y 90: ALL x2: Hue 0-255 x3: Saturation 0-255 x4: Brightness 0-255 INIT
		AXESADJ	N/A	OK	OK
		Return code			0-255 Returns hue, saturation, and brightness of each color in the order of R, G, B, C, M, Y
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute(Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	OK
Not Used	62	N/A
Not Used	63	N/A
Lens	64	OK
Lens 1	65	OK
Lens 2	66	OK
Preset	60	N/A
PinP	27	OK
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7400 Pro Cinema 4050 Home Cinema 4010
					N/A
					N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Memory item 02: Advanced x2 Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	OK
		4KENHANCE?	N/A	OK	OK
		Parameter/Return code			00: Off 01: Full HD
	Setting/Confirming	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	OK
		SHRF?	N/A	OK	OK
		Parameter/Return code	-		0-255 INC/DEC/INIT
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	OK
		SHRS?	N/A	OK	OK
		Parameter/Return code			0-255
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Parameter/Return code			0-255
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color space setting (HDR)	CLRSPACE x1	N/A	OK	OK
		CLRSPACE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: BT.709 02: BT.2020
	Setting/Confirming Dynamic range setting (HDR)	DYNRANGE x1	N/A	OK	OK
		DYNRANGE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: SDR 02: HDR Mode1 03: HDR Mode2 04: HDR Mode3 05: HDR Mode4 10: Auto (Bright)
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A N/A N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK
Anamorphic	9B	OK
H Squeeze	9C	OK
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

KEY	Code	
KEY POP	FF	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7400 Pro Cinema 4050 Home Cinema 4010
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirmng A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirmng LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip holizonal OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT (Setting only)
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps FF: USB
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7400 Pro Cinema 4050 Home Cinema 4010
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	N/A
		RCLT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Registration of lens position	PUSHLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Deletion of lens position	ERASELP xx	N/A	OK	OK
		Parameter			00: ALL 01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	OK
		STANDBYCONF?	N/A	—	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW7400 Pro Cinema 4050 Home Cinema 4010
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 01: Lamp consumption 06: Auto Iris 07: Key Stone 08: Info
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	OK
		Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK
		AMXDDDP?	N/A	OK	OK
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT(Setting only)
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			x1: 00: OFF 01: Wireless LAN ON
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	○	N/A
		WDMTMODE?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	○	N/A
		WDCH?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: LAMP operation time
	Getting operation time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected (2D) 02: Signal detected (3D) FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	N/A
		Return code			N/A
	Confirmation source list	SOURCELISTA?	N/A	OK	N/A
		Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number
Interactive Function	Setting/Confirming touch unit power	ITRLC x1	N/A	OK	N/A
		ITRLC?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW650 EH-TW610 Home Cinema 660/760HD/1060
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner
	Call of Geometric Correction memory	POPGC x1	N/A	OK	N/A
		Parameter			N/A
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	N/A
		Parameter			N/A
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 20: 16:9 30: Auto 40: Full 50: Zoom 60: Native INIT (Setting only) (WXGA/WUXGA models) 00: Normal 20: 16:9 30: Auto 40: Full 50: Zoom 60: Native INIT (Setting only) (1080p models) 00: Normal 30: Auto 40: Full 50: Zoom 60: Native INIT (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	OK
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1	10	OK
	11	OK (RGB(Analog))
	12	N/A
	13	N/A
	14	OK (Component)
	15	N/A
	2E-1E	N/A
	1F	OK (Auto)
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	OK(USB Display)
	52	OK (USB)
	53	OK (LAN)
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A
	62	N/A
	63	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW650 EH-TW610 Home Cinema 660/760HD/1060
					<Auto> x1: mode x2: Parameter of "Auto" =30
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK (Home Cinema 660)
		ZOOM?	OK	OK	OK
		Parameter/Return code			Digital Zoom & Optical Zoom: MIN/MAX/INC/DEC/OFF (Setting only)
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	OK
		RESOL?	N/A	OK	OK
		Parameter/Return code			00:Auto F0:Wide F1:Normal INIT (Setting only)
	Auto source search	AUTOSEARCH x1	N/A	OK	OK
		AUTOSEARCH?	N/A	OK	OK
		Parameter/Return code			00:Off 01:ON
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1:0-255 INC/DEC/INIT
		SHARP?	N/A	OK	OK
		SHARP? x1	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	**N/A**
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	OK
Page Down	69	OK
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	OK
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1(Computer)	43	OK
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	OK
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2:EH-TW650/610 CH-TW650/Home Cinema 1060)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all	OK
	F1 (PC)	OK (PC,UD,USB,LAN)
	F2 (Video)	OK (HDMI1,HDMI2*,Video) *HDMI2: only CH-TW650/HC 1060
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "\\".		N/A
		N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW650 EH-TW610 Home Cinema 660/760HD/1060
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			N/A
					06: Dynamic 0C: Bright Cinema 0D: Game 15: Cinema INIT (Setting Only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
					0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Parameter/Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	N/A
		MPEGNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
		GAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
		Parameter			N/A
		GAMMALV? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	OK
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	OK
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	OK
Still	47	N/A
E-Zoom+	28	OK
E-Zoom-	29	OK
A/V Mute(Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	OK
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW650 EH-TW610 Home Cinema 660/760HD/1060
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	N/A
		IMGPRESET?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code	-		N/A
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK (EH/CH-TW650/EH-TW610/Home Cinema 1060)
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK (EH/CH-TW650/EH-TW610/Home Cinema 1060)
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK
		FREEZE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	OK (US only)
		CCAP?	N/A	OK	OK (US only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
User	84	OK
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
ID	8F	OK
ID+HELP	8F	N/A
ID+0	90	OK
ID+1	91	OK
ID+2	92	OK
ID+3	93	OK
ID+4	94	OK
ID+5	95	OK
ID+6	96	OK
ID+7	97	OK
ID+8	98	OK
ID+9	99	OK
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	OK
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	N/A
Stop	D2	N/A
Pause	D3	N/A
Rewind	D4	N/A
Fast Forward	D5	N/A
Backward	D6	N/A
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

KEY	Code	
KEY POP	FF	OK

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW650 EH-TW610 Home Cinema 660/760HD/1060
		Parameter/Return code			00:OFF 11:CC1 12:CC2 F0:Changing cyclically(Setting only) INIT (Setting only)
	Split screen function	SPS x1 x2	NG	OK	N/A
		Parameter			N/A
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip holizonal OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	N/A
		MSEL?	N/A	OK	N/A
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT (Setting only)
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	OK
		PROJID?	N/A	OK	OK
		Parameter/Return code			00: OFF 01-09: ID1-ID9 INIT (Setting only)
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	OK
		RCLT?	N/A	OK	OK
		Parameter/Return code			00: Turn off the front/rear receiver 01: Turn ON the only front receiver 02: Turn ON the only rear receiver 03: Turn ON the front/rear FF: Turn ON the all receiver (setting only) INIT: Initialize(setting only)
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	N/A
		STANDBYCONF?	N/A	—	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW650 EH-TW610 Home Cinema 660/760HD/1060
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	OK
		PSDISP?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	N/A
		FASTBOOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 00: Color Mode 01: Lamp consumption(*1) 02: Test Pattern 03: Network Settings 04: Eco Settings 05: Closed Caption (US only) (*1)non-display (Home Cinema 660)
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			x1: 00: OFF 01: Wireless LAN ON
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW650 EH-TW610 Home Cinema 660/760HD/1060
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	○	N/A
		WDMTMODE?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	○	N/A
		WDCH?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: LAMP operation time
	Getting operation time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	N/A
		Return code			N/A
	Confirmation source list	SOURCELISTA?	N/A	OK	N/A
		Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number
Interactive Function	Setting/Confirming touch unit power	ITRLC x1	N/A	OK	N/A
		ITRLC?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150
Power Control	Power On	PWR ON	OK	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby	00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK	OK
		VKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK	OK
		HKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)	ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)	x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.	0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)	x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)	control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting Slide H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			00:Off 01:On INIT (Setting only)	00:Off 01:On INIT (Setting only)
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A	N/A
		CORRECTMET?	N/A	OK	OK	OK
		Return code			01: Keystone function 02: Quick Corner	01: Keystone function 02: Quick Corner
	Call of geometry correction	POPGC x1			N/A	N/A
		Parameter	N/A	OK	N/A	N/A
	Registration of geometry correction	PUSHGC x1			N/A	N/A
		Parameter	N/A	OK	N/A	N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK	OK
		ASPECT?	N/A	OK	OK	OK
		Parameter/Return code			30: Auto 40: Full 50: Zoom INIT (Setting only) <Auto> x1:Mode x2:Auto(=30)	00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only) <Auto> x1:Mode x2:Auto(=30)
	Setting zoom size / subtitle position	ZOOMSIZEPOS mode sp	N/A	OK	N/A	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK	OK
		LUMINANCE?	N/A	OK	OK	OK
		Parameter/Return code			00: High 01: Low INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.	00: High 01: Low INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A	N/A
		LUMLEVEL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	N/A	N/A
		ZOOM?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming focus value	FOCUS xxx	OK	OK	N/A	N/A
		FOCUS?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	N/A	N/A
		Return code			N/A	N/A
		LENS?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	N/A	N/A
		Parameter			N/A	N/A
		HLENS?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming distortion value	DISTORTION x1	OK	OK	N/A	N/A
		Parameter			N/A	N/A
		DISTORTION?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A	N/A
		LENSADJMODE?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK	OK
		OVSCAN?	N/A	OK	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)	00:Off 02:4% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A	N/A
		RESOL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Auto source search	AUTOSEARCH x1	N/A	OK	OK	OK
		AUTOSEARCH?	N/A	OK	OK	OK
		Parameter/Return code			00: Off 01: On	00: Off 01: On
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK	OK
		BRIGHT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK	OK
		CONTRAST?	N/A	OK	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	49	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	**N/A**
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH/CH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150
INPUT1	10	OK (PC)	OK (PC)
	11	OK (RGB(Analog))	OK (RGB(Analog))
	12	N/A	N/A
	13	N/A	N/A
	14	N/A	N/A
	15	N/A	N/A
	2E-1E	N/A	N/A
	1F	N/A	N/A
INPUT2	20	N/A	N/A
	21	N/A	N/A
	22	N/A	N/A
	23	N/A	N/A
	24	N/A	N/A
	25	N/A	N/A
	26-2E	N/A	N/A
	2F	N/A	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI)	OK (HDMI)
	31	(Digital-RGB)	(Digital-RGB)
	32	N/A	N/A
	33	(RGB-Video)	(RGB-Video)
	34	(YCbCr)	(YCbCr)
	35	(YPbPr)	(YPbPr)
	36-3E	N/A	N/A
	3F	N/A	N/A
VIDEO	40	N/A	N/A
VIDEO(RCA)	41	N/A	N/A
VIDEO(S)	42	N/A	N/A
VIDEO(YCbCr)	43	N/A	N/A
VIDEO(YPbPr)	44	N/A	N/A
VIDEO(BNC)	45	N/A	N/A
VIDEO(AUX)	46	N/A	N/A
VIDEO07	47	N/A	N/A
VIDEO08	48	N/A	N/A
VIDEO09	49	N/A	N/A
Reserved	4A-4F	N/A	N/A
EasyMP	50	N/A	N/A
	51	N/A	N/A
	52	OK (USB)	OK (USB)
	53	N/A	OK (LAN)
	54	N/A	N/A
	55	N/A	N/A
	56	N/A	OK (Screen Mirroring)
	57	N/A	N/A
	58	N/A	N/A
	59-5F	N/A	N/A
Extended Video source	60	N/A	N/A
(SDI)	61	N/A	N/A
	62	N/A	N/A
	63	N/A	N/A
	64	N/A	N/A
	65	N/A	N/A
	66-6E	N/A	N/A
	6F	N/A	N/A
DisplayPort	70	N/A	N/A
	71	N/A	N/A
	72	N/A	N/A
	73	N/A	N/A
	74	N/A	N/A
	75	N/A	N/A
	76-7E	N/A	N/A
	7F	N/A	N/A
HDBaseT	80	N/A	N/A
	81	N/A	N/A
	82	N/A	N/A
	83	N/A	N/A
	84	N/A	N/A
	85	N/A	N/A
	86-8E	N/A	N/A
	8F	N/A	N/A
Reserved	90	N/A	N/A
	91	N/A	N/A
	92	N/A	N/A
	93	N/A	N/A
	94	N/A	N/A
	95-9F	N/A	N/A
Extended DVI/HDMI	A0	OK (HDMI2)	OK (HDMI2)
	A1	(Digital-RGB)	(Digital-RGB)
	A2	N/A	N/A
	A3	(RGB-Video)	(RGB-Video)
	A4	(YCbCr)	(YCbCr)
	A5	(YPbPr)	(YPbPr)
	A6-AE	N/A	N/A
	AF	N/A	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK	OK
		DENSITY?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK	OK
		TINT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK	OK
		SHARP x1 x2	N/A	OK	N/A	N/A
		Parameter			x1:0-255 INC/DEC/INIT	x1:0-255 INC/DEC/INIT
		SHARP?			OK	OK
		SHARP? x1	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			0-255	0-255
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK	OK
		CTEMP?	N/A	OK	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A	N/A
		FCOLOR?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK	OK
		CMODE?	N/A	OK	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Living 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)	06: Dynamic 07: Natural 0C: Living 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK	OK
		HPOS?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK	OK
		VPOS?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK	OK
		TRACKING?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK	OK
		SYNC?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK	OK
		Parameter			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		NRS?	N/A	OK	OK	OK
		Return code			0-255	0-255
	MPEG noise reduction	MPEGNRS x1	N/A	OK	OK	OK
		MPEGNRS?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A	N/A
		MNRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A	N/A
		BNRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK	OK
		OFFSETR?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK	OK
		OFFSETG?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK	OK
		OFFSETB?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK	OK
		GAINR?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK	OK
		GAING?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK	OK
		GAINB?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK	OK
		GAMMA?	N/A	OK	OK	OK
		Parameter/Return code			20: Settin20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome INIT (Setting only)	20: Settin20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK	OK
		Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC	x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK	OK
		Parameter			Refer to the 1st parameter of "GAMMALV" command	Refer to the 1st parameter of "GAMMALV" command
		Return code			0-255	0-255
	Call of memory	POPMEM x1 x2	N/A	OK	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10	x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10	x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1(Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
LAN	8A	OK
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	OK
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute(Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	N/A
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	OK
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EHCH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150
INPUT4	B0	N/A	N/A
	B1	N/A	N/A
	B2	N/A	N/A
	B3	N/A	N/A
	B4	N/A	N/A
	B5	N/A	N/A
	B6-BE	N/A	N/A
	BF	N/A	N/A
INPUT5	C0	N/A	N/A
	C1	N/A	N/A
	C2	N/A	N/A
	C3	N/A	N/A
	C4	N/A	N/A
	C5	N/A	N/A
	C6-CE	N/A	N/A
	CF	N/A	N/A
Extended HDMI	D0	N/A	N/A
	D1	N/A	N/A
	D2	N/A	N/A
	D3	N/A	N/A
	D4	N/A	N/A
	D5	N/A	N/A
	D6-DE	N/A	N/A
	DF	N/A	N/A
Reserved	E0-EF	N/A	N/A
Change cyclic	F0 (For all source)	OK	OK
	F1 (PC)	OK (PC,USB)	OK (PC,USB,LAN, Screen Mirroring)
	F2 (Video)	OK (HDMI1,HDMI2)	OK (HDMI1,HDMI2)
	OK (HDMI1, HDMI2, HDMI3, Video).	N/A	N/A
	F4	N/A	N/A
	F5-FF	N/A	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "/A".		N/A	N/A
		N/A	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10	x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK	OK
		Return code			07: RGB/RGBCMY	07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A	N/A
		CGAMUT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A	N/A
		ACE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A	N/A
		4KENHANCE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	OK	OK
		IMGPRESET?	N/A	OK	OK	OK
		Parameter/Return code			01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5	01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A	N/A
		SUPERRES?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Super resolution (High)	SHRF x1	N/A	OK	N/A	N/A
		SHRF?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Super resolution (Low)	SHRS x1	N/A	OK	N/A	N/A
		SHRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Detail Enhancement: Setting/Confirming range value	DERANGE x1	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		DERANGE?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Detail Enhancement: Setting/Confirming strength value	DESTRENGTH x1	N/A	OK	OK	OK
		Parameter			0-255 INC/DEC/INIT	0-255 INC/DEC/INIT
		DESTRENGTH?	N/A	OK	OK	OK
		Return code			0-255	0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A	N/A
		PULLDOWN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	OK	OK
		MCFI?	N/A	OK	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)	00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confirming color space (HDR)	CLRSPACE x1	N/A	OK	N/A	N/A
		CLRSPACE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Sound	Setting/Confirming dynamic range(HDR)	DYNRANGE x1	N/A	OK	N/A	N/A
		DYNRANGE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming volume	VOL xxx	N/A	OK	OK	OK
		VOL?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
					N/A	N/A
					N/A	N/A
		AUDIO? [source]	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	AIV output setting/confirming	AVOUT x1	N/A	OK	OK	OK
		AVOUT?	N/A	OK	OK	OK
		Parameter/Return code			00: during projection (NW standby) 01: constantly (AV standby) INIT (Setting only)	00: during projection (NW standby) 01: constantly (AV standby) INIT (Setting only)
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A	N/A
		AUDIOOUT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK	OK
		MUTE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)	ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A	N/A
		FREEZE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Split screen function	SPS x1 x2	N/A	OK	N/A	OK
		Parameter	N/A	OK	N/A	SPS 01 00 : Split screen OFF 01 01 : Split screen ON SPS 06 01 : Switting screen left 06 02 : Switting screen right Display format of right screen SPS 0A 00 : Horizon 0A 01 : Vertical 1 0A 02 : Vertical 2 0A 03 : Vertical 3 0A 04 : Vertical 4
	Setting/Confirming closed caption	CCAP xxx	N/A	OK	N/A	N/A
		CCAP?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Call of LCD alignment memory	PQPLA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
	Registration of LCD alignment memory	PUSHLA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
	Deletion of LCD alignment memory	ERASELA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK	OK
		HREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK	OK
		VREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK	OK
		MSEL?	N/A	OK	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)	00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
		SPEED?	N/A	N/A	OK	OK
		Return code			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A	N/A
		PROJID?	N/A	OK	N/A	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WaitShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User	84	OK
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	OK
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EHCH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150
		Parameter/Return code			N/A	N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		DIRECTION?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK	OK
		ILLUM?	N/A	OK	OK	OK
		Parameter/Return code			00: Off 01: On INIT (Setting only)	00: Off 01: On INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A	N/A
		MENUDISP? mode	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
					N/A	N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	N/A	N/A
		STANDBYCONF?	N/A	N/A	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK(Not support the NW)	OK
		PRODUCT?	N/A	OK	OK(Not support the NW)	OK
		Parameter/Return code			00: Model name display OFF 01: Model name display ON INIT (Setting only)	00: Model name display OFF 01: Model name display ON INIT (Setting only)
	Setting/Confirming FASTBOOT	FASTBOOT x1	N/A	OK	N/A	N/A
		FASTBOOT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming EDID	EDID x1	N/A	OK	N/A	N/A
		EDID?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Home Screen	auto display of home screen	AUTOHOME x1	N/A	OK	OK	OK
		AUTOHOME?	N/A	OK	OK	OK
		Parameter/Return code			00: Off 01: On	00: Off 01: On
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	OK	OK
		HFUNC? x1	N/A	OK	OK	OK
		Parameter/Return code			x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function (Home) 01: changing luminance 06: auto iris 07: keystone 08: information	x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function (Home) 01: changing luminance 06: auto iris 07: keystone 08: information
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A	N/A
		AMXDDDP?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Wireless power setting	WLPWR x1	N/A	OK	N/A	OK
		WLPWR?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	00: OFF 01: Wireless LAN => ON
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A	OK
		WDPWR?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	00: Off 01: On
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A	OK
		WDNAME?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	x1: display name(1~32 characters)
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A	OK
		WDIF?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	0A: 802.11g/n 0E: 802.11a/g/n 1E: 802.11a/g/n/ac
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A	OK
		WDPERF?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	01: setting1 (fine) 02: setting2 03: setting3 04: setting4 (fast)
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A	N/A
			N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD Operation mode	WDMODE x1	N/A	OK	N/A	OK
		WDMODE?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	00: Basic 01: Extended
	Setting/Confirming WFD Meeting mode	WDMTMODE x1	N/A	OK	N/A	OK
		WDMTMODE?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	01: ON (Interruptions OK) 02: OFF (No interruptions)
	Setting/Confirming WFD Channel	WDCH x1	N/A	OK	N/A	OK
		WDCH?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	x1: Channel 1/6/11 36/40/44/48 52/56/60/64 149/153/157/161/165
	Setting/Confirming WFD connection notification	WDCNTNOTIFY x1	N/A	OK	N/A	N/A
		WDCNTNOTIFY?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A	N/A
		WDPINNOTIFY?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A	OK
		Parameter/Return code			N/A	N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A	OK
		Parameter/Return code			N/A	N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	OK	OK
		BTAUDIO?	N/A	OK	OK	OK
		Parameter/Return code			00: Off 01: On	00: Off 01: On
Information	Getting lamp operation time	LAMP?	N/A	OK	OK	OK
		Return code			LAMP=x1 x1: lamp operation time	LAMP=x1 x1. lamp operation time
	Getting projector on time	ONTIME?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Getting signal state	SIGNAL?	N/A	OK	OK	OK
		Return code			00: No signal 01: 2D signal 02: 3D signal FF: Not supported signal	00: No signal 01: 2D signal 02: 3D signal FF: Not supported signal
	Getting serial number	SNO?	N/A	OK	OK	OK
		Return code			SNO=x1 x1: serial number	SNO=x1 x1: serial number

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

KEY	Code	
KEY POP	FF	N/A

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EHCH-TW5400 CH-TZ2100 EH/CH-TW5600 Home Cinema 2100	EH-TW5650 Home Cinema2150

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS100 PL-ProCinema100
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirming power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby 09: A/V standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	VBALANCE x1	N/A	OK	N/A
		VBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical balance	HBALANCE x1	N/A	OK	N/A
		HBALANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation of correction function setting	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	OK
		Return code			01: H/V keystone 02: Quick Corner 06: Arc Correction
	Call of Geometric Correction memory	POPGC x1	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3
	Registration of Geometric correction memory	PUSHGC x1	N/A	OK	OK
		パラメータ			01: memory1 02: memory2 03: memory3
	Deletion of Geometric Corection memory	ERASEGC x1	N/A	OK	N/A
		Parameter			N/A
	Change name/Comfirming of Geometric Correction memory	NAMEGC x1 x2	N/A	OK	N/A
		Parameter			N/A
		NAMEGC? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			(SVGA) 00: Normal 10: 4:3 20:16:9 30: Auto INIT (Setting only) (WXGA/WUXGA) 00: Normal 20: 16:9 30: Auto 40: Full 50: Zoom 60: Native INIT (Setting only) (1080p) 00: Normal 30: Auto 40: Full 50: Zoom 60: Native INIT (Setting only)
					If <Auto> is selected (setting only) x1: mode x2: Auto(=30)
	Setting/Confirming zoom size	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Screen type	SCFORMAT mode [position]	N/A	OK	OK
		SCFORMAT?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	OK
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Slot1	ED	N/A
Slot2	EE	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
Resize(Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1	10	OK
	11	OK (RGB(Analog))
	12	N/A
	13	N/A
	14	OK (Component)
	15	N/A
	2E-1E	N/A
	1F	OK (Auto)
INPUT2	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
Reserved	4A-4F	N/A
EasyMP	50	N/A
	51	OK(USB Display)
	52	OK(USB)
	53	OK(LAN)
	54	N/A
	55	N/A
	56	N/A
	57	N/A
	58	N/A
	59-5F	N/A
Extended Video source	60	N/A
(SDI)	61	N/A
	62	N/A
	63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS100 PL-ProCinema100
		Parameter/Return code			01: Screen type setting 02: 16:9 03: 16:10 02: Screen position setting C19(-999)~000~3E7(999) INIT (Setting only)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco 04:Extended 05:Custom INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	OK
		LUMLEVEL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming Constant Brightness	LUMCONST x1	N/A	OK	N/A
		LUMCONST?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Luminance Level	DIMMING x1 (100[%]-[x1][%])	N/A	OK	N/A
		DIMMING?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming digital picture shift	IMGSHIFT x y	N/A	OK	N/A
		IMGSHIFT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Digital Zoom & Optical Zoom: MIN/MAX/INC/DEC/OFF (Setting only)
	Setting focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting horizontal lens shift value	HLENS x1 [x2]	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming Distortion	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens calibration	LENSCALB	N/A	OK	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00: Off 02: 4% 04: 8% A0: Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	OK
		RESOL?	N/A	OK	OK
		Parameter/Return code			00:Auto F0:Wide F1:Normal INIT (Setting only)
	Auto source search	AUTOSEARCH x1	N/A	OK	OK
		AUTOSEARCH?	N/A	OK	OK
		Parameter/Return code			00:Off 01:ON
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1:0-255 INC/DEC/INIT
		SHARP?	N/A	OK	OK
		SHARP? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 0C: Bright Cinema 0D: Game 15: Cinema INIT (Setting Only)
					N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	**N/A**
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A
Calibration	E3	N/A
Geometry	E4	N/A
Distortion	E5	N/A
Uniformity	E6	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	OK
Page Down	69	OK
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	OK
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	OK
Comp1/Comp2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	OK
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
LAN	8A	OK
LAN/USB	8A	N/A
USB Display	85	N/A
USB	85	OK
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
Mirroring (Screen Mirroring)	C3	N/A
Slot1	C9	N/A
Slot2	CA	N/A
SlideShow	86	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Reserved	90	N/A
	91	N/A
	92	N/A
	93	N/A
	94	N/A
	95-9F	N/A
Extended DVI/HDMI	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5	C0	OK(HDMI3)
	C1	(Digital-RGB)
	C2	N/A
	C3	(RGB-Video)
	C4	(YCbCr)
	C5	(YPbPr)
	C6-CE	N/A
	CF	N/A
Extended HDMI	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reserved	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,UD,USB,LAN)
	F2 (Video)	OK (HDMI1,HDMI2,HDMI3,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A
SOURCELIST? SOURCELISTA? Return items Note: Space " " is replaced to "^".		N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS100 PL-ProCinema100
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		Parameter			0-255 INIT/INC/DEC
		NRS?	N/A	OK	OK
		Return code			0-255
	MPEG smoothing	MPEGNRS x1	N/A	OK	N/A
		MPEGNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
		Parameter			N/A
		GAMMALV? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
					N/A
					N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K Enhancement	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming	IMGPRESET x1	N/A	OK	N/A
		IMGPRESET?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	High Resolution: Fine line adjustment	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code	-		N/A
	High Resolution: Soft focus detail	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Range setting of Detail enhancement	DERANGE x1	N/A	OK	N/A
		Parameter/Return code			N/A
		DERANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Strength setting of Detail enhancement	DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
		DESTRENGTH x1	N/A	OK	OK
		Parameter/Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Freeze	47	OK
Still	47	N/A
E-Zoom+	28	OK
E-Zoom-	29	OK
A/V Mute(Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	OK
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Keystone	C8	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User	84	OK
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
ID	8F	OK
ID+HELP	8F	N/A
ID+0	90	OK
ID+1	91	OK
ID+2	92	OK
ID+3	93	OK
ID+4	94	OK
ID+5	95	OK
ID+6	96	OK
ID+7	97	OK
ID+8	98	OK
ID+9	99	OK
Lens Iris	8B	N/A
Super Res Super Res/4K	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	OK
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	OK
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	OK （for remote controller on smartphone）
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	N/A
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS100 PL-ProCinema100
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	OK
		Parameter/Return code			Audio output setting mode 00: Auto 01: Audio input1 02: Audio input2 03: Audio input3 INIT (Setting only)
					HDMI Audio output setting -mode 00: Default (HDMI) 01: Audio input1 02: Audio input2 INIT (Setting only) -target source 30: HDMI1 A0: HDMI2 C0: HDMI3
		AUDIO? [source]	N/A	OK	OK
		Parameter			Refer to the source parameter of "AUDIO" command
		Return code			Refer to the mode parameter of "AUDIO" command
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming AV output	AVOUT x1	N/A	OK	OK
		AVOUT?	N/A	OK	OK
		Parameter/Return code			00: While projecting (Network Standby) 01: Always (A/V Standby) INIT (Setting only)
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK
		FREEZE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting/Confirming fade-in function	FADEIN x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fade-out function	FADEOUT x1	N/A	OK	N/A
		Parameter/Return code			N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	OK (US only)
		CCAP?	N/A	OK	OK (US only)
		Parameter/Return code			00:OFF 11:CC1 12:CC2 F0:Changing cyclically(Setting only) INIT (Setting only)
	Split screen function	SPS x1 x2	NG	OK	OK
		Parameter			SPS 01 00 : Split screen OFF 01 01 : Split screen ON SPS 02 00 : Both screen size are same 02 01 : Left screen become bigger than right 02 02 : Right screen become bigger than left SPS 03 xx : Source change of left screen *1 SPS 04 xx : Source change of right screen *1 SPS 05 : Switch left and right screen. *1 Please refer the "source code"
	Edge Blending function	EGBLEND 10 x1	NG	OK	N/A
		Parameter			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	N/A
		Parameter/Return code			N/A
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip vertical OFF: Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON : Flip holizonal OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	N/A
		MSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT (Setting only)
		SPEED?	N/A	—	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Gesture	C2	N/A
SD Player	C5	N/A
SD Viewer	C6	N/A
Spotlight	C7	N/A
Uniformity	CB	N/A
HDR	CC	N/A
Bluetooth	CD	N/A

WB remote key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

KEY	Code	
KEY POP	FF	OK

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS100 PL-ProCinema100
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps
	Setting/Confirming projector ID	PROJID xx	N/A	OK	OK
		PROJID?	N/A	OK	OK
		Parameter/Return code			00: OFF 01-09: ID1-ID9 INIT (Setting only)
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	OK
		Return code			00: Normal 01: Pointing Up 02: Pointing Down 04: Angled Up 05: Angled Down F6: Portrait
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/ Confirming remote control receiver setting	RCLT xx	N/A	OK	OK
		RCLT?	N/A	OK	OK
		Parameter/Return code			00: Turn off the front/rear receiver 01: Turn ON the only front receiver 02: Turn ON the only rear receiver 03: Turn ON the front/rear FF: Turn ON the all receiver (setting only) INIT: Initialize(setting only)
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting OSD Rotation	OSDROTATE x1	N/A	OK	N/A
		OSDROTATE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	—	N/A
		STANDBYCONF?	N/A	—	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle (Horizontal direction)	HANGLE param	N/A	OK	N/A
		HANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	OK
		PSDISP?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming default input source setting	STSOURCE mode	N/A	OK	N/A
		STSOURCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"One touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation fast boot mode.	FASTBOOT x1	N/A	OK	OK
		FASTBOOT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: 20 minute 02: 60 minute 03: 90 minute
	Setting/Confirmation refresh mode	REFRESHTIME x1	N/A	OK	N/A
		REFRESHTIME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Start refresh mode	REFRESH	N/A	OK	N/A
		Parameter/Return code			N/A
	Start light calibration	LTCALB	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirmation light calibration(Schedule)	AUTOLTCALB x1	N/A	OK	N/A
		AUTOLTCALB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Confirmation last light calibration date	LASTLTCALB?	N/A	OK	N/A
		Return code			N/A
Home Screen	Home screen auto display	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirmation home setting custome function	HFUNC x1 x2	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = Custom target 01: Custom1 (L2) 02: Custom2 (R2) x2 = Function 00: Color Mode 05: Closed Caption (US only) 0A: None 0F: Guide for wireless connection
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 [x3]	N/A	OK	N/A
		HFUNC2? x1	N/A	OK	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS100 PL-ProCinema100
		Parameter/Return code			N/A
	Setting/Confirmation home setting custome function 2	HFUNC2 x1 x2 x3	N/A	OK	N/A
		HFUNC2? x1 x2	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	OK
		Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK
		AMXDDDP?	N/A	OK	OK
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT(Setting only)
	Extron XTP Setting/Receive	XTP	N/A	OK	N/A
		XTP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless LAN power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			x1: 00: OFF 01: Wireless LAN ON
Screem Mirroring	Screen Mirroring Power setting	WDPWR x1			N/A
		WDPWR?			N/A
		Parameter/Return code			N/A
	Screen Mirroring display name setting	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Interface setting	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring performance setting	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring connection mode setting	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring Operation Mode Setting	WDMODE x1	N/A	OK	N/A
		WDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring meeting mode setting	WDMTMODE x1	—	○	N/A
		WDMTMODE?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Channel setting	WDCH x1	—	○	N/A
		WDCH?	—	○	N/A
		Parameter/Return code			N/A
	Screen Mirroring Device Name notification setting	WDCNTNOTIFY x1	N/A	OK	N/A
		WDCNTNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Screen Mirroring PIN code notification setting	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	Initialize Screen Mirroring	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	Apply Screen Mirroring settings	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting Screen Mirroring Protcol Verison	WDVER?	N/A	OK	N/A
		Parameter/Return code			N/A
Bluetooth	Bluetooth Audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			x1: Lazer operation time
	Getting operation time	ONTIME?	N/A	OK	OK
		Return code			ONTIME=x1 x1: Operation Time
	Signal status	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: Signal detected FF: Unsupported signal
	Confirmation source information	SOURCELIST?	N/A	OK	N/A
		Return code			N/A
	Confirmation source list	SOURCELISTA?	N/A	OK	N/A
		Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1:Serial Number
Interactive Function	Setting/Confirming touch unit power	ITRLC x1	N/A	OK	N/A
		ITRLC?	N/A	OK	N/A
		Parameter/Return code			N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	

Source code

OK:Available / N/A: Return "ERR")

Source	Code	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW6700/TW6700W/TW6800/TW6300 CH-TZ1000 PL-HomeCinema3900/3700/3710/3100
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			01: Keystone function 02: Quick Corner
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			< Peach - H799 / H800 / H829 > 00:Normal 30:Auto 40: Full 50: Zoom INIT (Setting only) < H798 > 00: Normal 30: Auto 40: Full 50: Zoom 80: Anamorphic 90: H squeeze INIT (Setting only) <Auto> x1:Mode x2:Auto
	Setting zoom size / subtitlte position	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00: High 01: Low 02: Middle INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	N/A
		ZOOM?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	N/A
		Return code			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming distortion value	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1 (10 is the "INPUT1" button of remote controller)	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	16-1E	N/A
	1F	N/A
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK (Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
未定義	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	OK (USB)
	53	OK (LAN)
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
Video advanced (SDI)	60	N/A
	61-63	N/A
		N/A
		N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A

Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK
		Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass
		SHARP?			N/A
		SHARP? x1	N/A	OK	OK
		Parameter			Refer to the 2nd parameter of "SHARP" command
		Return code			0-255
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			00: Auto 06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		Parameter			0-255 INIT/INC/DEC (Setting only)
		NRS?	N/A	OK	OK
		Return code			0-255
	MPEG noise reduction	MPEGNRS x1	N/A	OK	OK
		MPEGNRS?	N/A	OK	OK
					0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)

Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp 2	43	N/A
Component	43	N/A
Comp/EasyM P	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video 2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
On-Screen	4C	N/A
Memory	6A	N/A
Memory	61	OK
Distortion+	62	N/A
Distortion-	63	N/A
Lens	64	N/A
Lens 1	65	N/A

	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Unused	90-9F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	OK (WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Reservation (use for internal communication)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,LAN)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD(*)) *H829 only
	F3	N/A
	F4	N/A
	F5-FF	N/A

	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Refer to the 1st parameter of "GAMMALV" command
		Return code			0-255
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10 * H798 only The area between Memory 1 to 8 will not be included to target when the delete / initialize is selected during lock state.
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: Off 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution (High)	SHRF x1	N/A	OK	OK
		SHRF?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Setting/Confirming Super resolution (Low)	SHRS x1	N/A	OK	OK
		SHRS?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Detail Enhancement: Setting/Confirming range value	DERANGE x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Return code			0-255
	Detail Enhancement: Setting/Confirming strength value	DESTRENGTH x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DESTRENGTH?	N/A	OK	OK
		Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confiming color space (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming dynamic range(HDR)	DYNRANGE x1	N/A	OK	N/A
		DYNRANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK (except H798)
		VOL?	N/A	OK	OK (except H798)
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	OK(H799/H829)
		AUDIOOUT?	N/A	OK	OK(H799/H829)
		Parameter/Return code			10: Off (normal) 11: On (reversed) INIT (Setting only)
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter			N/A

Lens 2	66	N/A
Preset	60	N/A
PinP	27	OK
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Info	1F	N/A
Geometry	6B	N/A
0(10 key)	70	N/A
1(10 key)	71	N/A
2(10 key)	72	N/A
3(10 key)	73	N/A
4(10 key)	74	N/A
5(10 key)	75	N/A
6(10 key)	76	N/A
7(10 key)	77	N/A
8(10 key)	78	N/A
9(10 key)	79	N/A
. (10 key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
USB Display	85	N/A
USB	85	OK
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
LAN	8A	OK
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K Image Enh	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK(H798)
Anamorphic	9B	OK(H798)
H Squeeze	9C	OK(H798)
Split	A0	N/A
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
WirelessHD	A2	OK(H829)
SDI	A3	N/A

		Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3
	Registration of LCD alignment memory	PUSHLA x1	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3
	Deletion of LCD alignment memory	ERASELA x1	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
		SPEED?	N/A	N/A	OK
		Return code			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	OK
		STANDBYCONF?	N/A	N/A	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Setting/Confirming EDID	EDID x1	N/A	OK	N/A
		EDID?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	auto display of home screen	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function 01: changing luminance 06: auto iris 07: keystone 08: information
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	OK(H798)
		Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK(H798)
		AMXDDDP?	N/A	OK	OK(H798)
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT (Setting only)
	Wireless power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Wireless LAN => ON
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A
		WDPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A
		Return code			N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	OK
		BTAUDIO?	N/A	OK	OK

DisplayPort	A4	N/A
HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	OK
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
Mirroring (Screen Mirroring)	C3	N/A

WB Remote Control Key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	N/A

KEYGET Command Return Code list

*KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

		Parameter/Return code			00: Off 01: On
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			LAMP=x1 x1: lamp operation time
	Getting projector on time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Getting signal state	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: 2D signal 02: 3D signal FF: Not supported signal
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1: serial number

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW9300/TW9300W/TW8300/TW8300W/TW7300 PL-PC6040UB/4040,HC5040UB/5040UBe
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			< Ivy - M / MW / L > 00:Normal 30:Auto 40: Full 50: Zoom INIT (Setting only) < Ivy - H / HW > 00: Normal 30: Auto 40: Full 50: Zoom 80: Anamorphic 90: H squeeze INIT (Setting only) <Auto> x1:Mode x2:Auto
	Setting zoom size / subtittle position	ZOOMSIZEPOS mode sp	N/A	OK	OK
		ZOOMSIZEPOS? mode	N/A	OK	OK
		Parameter/Return code			
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00: High 01: Low 02: Middle INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Electrical Zoom 0-1023 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming focus value	FOCUS xxx	OK	OK	OK
		FOCUS?	OK	OK	OK
		Parameter/Return code			Electrical focus 0-1023 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	OK
		Return code			MIN/MAX/INC/DEC/OFF (Setting only)
		LENS?	OK	OK	OK
		Return code			Electrical lens shift 0-4095(vertical)
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	OK
		Parameter			MIN/MAX/INC/DEC/OFF (Setting only)
		HLENS?	OK	OK	OK
		Return code			Electrical lens shift 0-4095(horizontal)
	Setting/Confirming distortion value	DISTORTION x1	OK	OK	OK
		Parameter			
		DISTORTION?	OK	OK	N/A
		Return code			
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Auto source search	AUTOSEARCH x1	—	○	N/A
		AUTOSEARCH?	—	○	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	OK
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1 (10 is the "INPUT1" button of remote controller)	10	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	16-1E	N/A
	1F	N/A
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK (Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	N/A
VIDEO(RCA)	41	N/A
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
未定義	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	OK (LAN)
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
Video advanced (SDI)	60	N/A
	61-63	N/A
		N/A
		N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Unused	90-9F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A

	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
	SHARP x1 x2	N/A	OK	OK
	Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass
	SHARP?			N/A
	SHARP? x1	N/A	OK	OK
	Parameter			Refer to the 2nd parameter of "SHARP" command
	Return code			0-255
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 17: 3D Cinema 18: 3D Dynamic 20: B&W Cinema(EAI only) 22: Digital Cinema INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	Parameter			0-255 INIT/INC/DEC (Setting only)
	NRS?	N/A	OK	OK
	Return code			0-255
MPEG noise reduction	MPEGNRS x1	N/A	OK	OK
	MPEGNRS?	N/A	OK	OK
				0-255 INIT/INC/DEC (Setting only)
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK
	GAING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK
	Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
	Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
	GAMMALV? xx	N/A	OK	OK
	Parameter			Refer to the 1st parameter of "GAMMALV" command
	Return code			0-255
Call of memory	POPMEM x1 x2	N/A	OK	OK

Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp 2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	N/A
HDMI/Video	46	N/A
Video1/Video 2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI1	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
On-Screen	4C	N/A
Memory	6A	N/A
Memory	61	OK
Distortion+	62	N/A
Distortion-	63	N/A
Lens	64	OK
Lens 1	65	OK
Lens 2	66	OK
Preset	60	N/A
PinP	27	OK
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A

	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	OK (WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Reservation (use for internal communication)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,LAN)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD(*)) *Ivy-MW/HW only
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10 * Ivy-H/HW only The area between Memory 1 to 8 will not be included to target when the delete / initialize is selected during lock state.
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	OK
		4KENHANCE?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: Off 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution (High)	SHRF x1	N/A	OK	OK
		SHRF?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Setting/Confirming Super resolution (Low)	SHRS x1	N/A	OK	OK
		SHRS?	N/A	OK	OK
		Parameter/Return code			0-255 INC/DEC/INIT
	Detail Enhancement: Setting/Confirming range value	DERANGE x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Return code			0-255
	Detail Enhancement: Setting/Confirming strength value	DESTRENGTH x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DESTRENGTH?	N/A	OK	OK
		Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confiming color space (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming dynamic range(HDR)	DYNRANGE x1	N/A	OK	OK
		DYNRANGE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: SDR 02: HDR Mode1 03: HDR Mode2 04: HDR Mode3 05: HDR Mode4
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter			N/A
		Return code			
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	—	○	OK
		Parameter			01: memory1 02: memory2 03: memory3
	Registration of LCD alignment memory	PUSHLA x1	—	○	OK
		Parameter			01: memory1 02: memory2 03: memory3
	Deletion of LCD alignment memory	ERASELA x1	—	○	OK
		Parameter			01: memory1 02: memory2 03: memory3

Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Info	1F	N/A
Geometry	6B	N/A
0(10 key)	70	N/A
1(10 key)	71	N/A
2(10 key)	72	N/A
3(10 key)	73	N/A
4(10 key)	74	N/A
5(10 key)	75	N/A
6(10 key)	76	N/A
7(10 key)	77	N/A
8(10 key)	78	N/A
9(10 key)	79	N/A
. (10 key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
LAN	8A	OK
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K Image Enh	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK(Ivy-H/HW)
Anamorphic	9B	OK(Ivy-H/HW)
H Squeeze	9C	OK(Ivy-H/HW)
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
WirelessHD	A2	OK(Ivy-H/HW)
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK

Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
					00:Black 01:Blue 02:User logo INIT (Setting only)
					OK
		Parameter/Return code			OK
	Reset All	INITALL	N/A	OK	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
		SPEED?	N/A	N/A	OK
		Return code			OK
	Setting/Confirming illumination	ILLUM xx	N/A	OK	00: Off 01: On INIT (Setting only)
		ILLUM?	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Call of lens position	POPLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Registration of lens position	PUSHLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	OK
		MENUDISP? mode	N/A	OK	OK
		Parameter/Return code			mode: Choose the setting mode 01: Menu position param=01 00: center 01: Left - Center 02: Left - Top 03: Center - Top 04: Right - Top 05: Right - Center 06: Right - Bottom 07: Center - Bottom 08: Left - Bottom INIT (Setting only)
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	OK
		STANDBYCONF?	N/A	N/A	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Setting/Confirming EDID	EDID x1	N/A	OK	N/A
		EDID?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	auto display of home screen	AUTOHOME x1	N/A	OK	OK
		AUTOHOME?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	OK
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function 01: changing luminance 06: auto iris 07: keystone 08: information
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	OK
		Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK
		AMXDDDP?	N/A	OK	OK
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT (Setting only)
	Wireless power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Wireless LAN => ON (with screen mirroring) 01: Wireless LAN =>ON 02: Screen Mirroring =>ON 00: Both function are OFF
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A
		WDPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A

Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
Mirroring (Screen Mirroring)	C3	N/A

WB Remote Control Key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	N/A

KEYGET Command Return Code list

*KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	

	Setting/Confirming WFD performance adjustment	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A
		Return code			N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			LAMP=x1 x1: lamp operation time
	Getting projector on time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Getting signal state	SIGNAL?	N/A	OK	OK
		Return code			00: No signal 01: 2D signal 02: 3D signal FF: Not supported signal
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1: serial number

0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS10500 PL-ProCinema10500
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 30: Auto 40: Full 50: Zoom 70: Wide 80: Anamorphic 90: H squeeze INIT (Setting only) <Auto> x1:Mode x2:Auto
	Setting zoom size / sublitle position	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00: High 01: Low 02: Middle INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Electrical Zoom 0-1023 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming focus value	FOCUS xxx	OK	OK	OK
		FOCUS?	OK	OK	OK
		Parameter/Return code			Electrical focus 0-1023 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	OK
		Return code			Electrical Lens shift 0-1023 (Vertical) MIN/MAX/INC/DEC/OFF (Setting only)
		LENS?	OK	OK	OK
		Return code			Electrical lens shift 0-1023 (Vertical)
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	OK
		Parameter			Electrical Lens shift 0-1023 (Horizontal) MIN/MAX/INC/DEC/OFF (Setting only)
		HLENS?	OK	OK	OK
		Return code			Electrical lens shift 0-4095 (Horizontal)
	Setting/Confirming distortion value	DISTORTION x1	OK	OK	OK
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	OK
		LENSADJMODE?	OK	OK	OK
		Parameter/Return code			01: setting1 02: setting2 03: setting3
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Auto source search	AUTOSEARCH x1	N/A	OK	N/A
		AUTOSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	OK
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (Component(3RCA))
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK (Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
未定義	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
Video advanced (SDI)	60	N/A
	61-63	N/A
		N/A
		N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Unused	90-9F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A

	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tint value	TINT xxx	N/A	OK	OK
	TINT?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
	SHARP x1 x2	N/A	OK	OK
	Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass
	SHARP?			N/A
	SHARP? x1	N/A	OK	OK
	Parameter			Refer to the 2nd parameter of "SHARP" command
	Return code			0-255
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 17: 3D Cinema 18: 3D Dynamic 20: B&W Cinema (only EAI model) 21: Adobe RGB 22: Digital Cinema INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	Parameter			01: Off 02: Setting1 03: Setting2 04: Setting3 INIT
	NRS?	N/A	OK	OK
	Return code			01: Off 02: Setting1 03: Setting2 04: Setting3
MPEG noise reduction	MPEGNRS x1	N/A	OK	N/A
	MPEGNRS?	N/A	OK	N/A
				N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK
	GAING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK
	Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
	Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC

Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp 2	43	N/A
Component	43	OK
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	OK
HDMI/Video	46	N/A
Video1/Video 2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
On-Screen	4C	N/A
Memory	6A	N/A
Memory	61	OK
Distortion+	62	N/A
Distortion-	63	N/A
Lens	64	OK
Lens 1	65	OK
Lens 2	66	OK
Preset	60	N/A
PinP	27	OK
Focus+	2A	N/A
Focus-	2B	N/A

INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reservation (use for internal communication)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC)
	F2 (Video)	OK (HDMI1,HDMI2,Component,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		GAMMALV? xx	N/A	OK	OK
		Parameter			Refer to the 1st parameter of "GAMMALV" command
		Return code			0-255
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10 The area between Memory 1 to 8 will not be included to target when the delete / initialize is selected during lock state.
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	N/A
		IMGPRESET?	N/A	OK	N/A
		Parameter/Return code			00: Off 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK
		SUPERRES?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 11: 4K-1 02: Setting 2 12: 4K-2 03: Setting 3 13: 4K-3 04: Setting 4 14: 4K-4 05: Setting 5 15: 4K-5 INIT (Setting only)
	Setting/Confirming Super resolution (High)	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution (Low)	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Detail Enhancement: Setting/Confirming range value	DERANGE x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Return code			0-255
	Detail Enhancement: Setting/Confirming strength value	DESTRENGTH x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DESTRENGTH?	N/A	OK	OK
		Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confiming color space (HDR)	CLRSPACE x1	N/A	OK	OK
		CLRSPACE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: BT.709 02: BT.2020
	Setting/Confiming dynamic range(HDR)	DYNRANGE x1	N/A	OK	OK
		DYNRANGE?	N/A	OK	OK
		Parameter/Return code			00: Auto 01: SDR 02: HDR Mode1 03: HDR Mode2 04: HDR Mode3 05: HDR Mode4
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	OK
		Parameter			INIT
		Return code			

Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Info	1F	N/A
Geometry	6B	N/A
0(10 key)	70	N/A
1(10 key)	71	N/A
2(10 key)	72	N/A
3(10 key)	73	N/A
4(10 key)	74	N/A
5(10 key)	75	N/A
6(10 key)	76	N/A
7(10 key)	77	N/A
8(10 key)	78	N/A
9(10 key)	79	N/A
. (10 key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	OK
Super Res Super Res/4K Image Enh	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK
Anamorphic	9B	OK
H Squeeze	9C	OK
Split	A0	N/A
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A

		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	—	○	N/A
		Parameter			N/A
	Registration of LCD alignment memory	PUSHLA x1	—	○	N/A
		Parameter			N/A
	Deletion of LCD alignment memory	ERASELA x1	—	○	N/A
		Parameter			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
					00:Black 01:Blue 02:User logo INIT (Setting only)
					OK
		Parameter/Return code			OK
	Reset All	INITALL	N/A	OK	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
		SPEED?	N/A	N/A	OK
		Return code			OK
	Setting/Confirming illumination	ILLUM xx	N/A	OK	00: Off 01: On INIT (Setting only)
		ILLUM?	N/A	OK	OK
		Parameter/Return code			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Call of lens position	POPLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Registration of lens position	PUSHLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Deletion of lens position	ERASELP xx	N/A	OK	OK
		Parameter			OK
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	mode: Choose the setting mode 01: Menu position 02: Menu color param=01 00: center 01: Left - Center 02: Left - Top 03: Center - Top 04: Right - Top 05: Right - Center 06: Right - Bottom 07: Center - Bottom 08: Left - Bottom INIT (Setting only)
		MENUDISP? mode	N/A	OK	param=02 00: color1 (gray) 01: color2 (orange) INIT (Setting only)
		Parameter/Return code			OK OK
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
		STANDBYCONF?	N/A	N/A	OK
		Parameter/Return code			OK
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	00: OFF 01: ON INIT (Setting only)
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			OK
	Setting/Confirming EDID	EDID x1	N/A	OK	01: EDID1 02: EDID2
		EDID?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	auto display of home screen	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	N/A
		HFUNC? x1	N/A	OK	OK
		Parameter/Return code			*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> -<-GUID=EPSON_EMP001><-Revision=1.0.0>
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	OK
		Return code			OK
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	00: BeaconMessage stop 01: BeaconMessage start INIT (Setting only)
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A

HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	OK
Gesture	C2	N/A
Mirroring (Screen Mirroring)	C3	N/A

WB Remote Control Key	Code	
Power	AB	FALSE
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	N/A

KEYGET Command Return Code list

*KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up

		WDPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A
		Return code			N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	OK
		Parameter/Return code			LAMP=x1 x1: lamp operation time
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			ONTIME=x1 x1: on time
	Getting projector on time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Getting signal state	SIGNAL?	N/A	OK	OK
		Return code			SNO=x1 x1: serial number
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1: serial number

0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW5300/TW5210 CH-TZ2000 PL-HomeCinema2040	EH/CH-TW5350 PL-HomeCinema2045
Power Control	Power On	PWR ON	OK	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormaility standby	00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormaility standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK	OK
		VKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK	OK
		HKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)	ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		QC?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			00:Off 01:On INIT (Setting only)	00:Off 01:On INIT (Setting only)
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A	N/A
		CORRECTMET?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK	OK
		ASPECT?	N/A	OK	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40: Full 50: Zoom INIT (Setting only) <Auto> x1:Mode x2:Auto	00:Normal 30:Auto 40: Full 50: Zoom INIT (Setting only) <Auto> x1:Mode x2:Auto
	Setting zoom size / subtitle position	ZOOMSIZEPOS mode sp	N/A	OK	OK	OK
		ZOOMSIZEPOS? mode	N/A	OK	OK	OK
		Parameter/Return code				N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK	OK
		LUMINANCE?	N/A	OK	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.	00:Normal 01:Eco INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	N/A	N/A
		ZOOM?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	Electrical zoom 0-1023 MIN/MAA/INC/DEC/OFF (Setting only)
	Setting/Confirming focus value	FOCUS xxx	OK	OK	N/A	N/A
		FOCUS?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	N/A	N/A
		Return code			N/A	N/A
		LENS?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	N/A	N/A
		Parameter			N/A	N/A
		HLENS?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming distortion value	DISTORTION x1	OK	OK	N/A	N/A
		Parameter			N/A	N/A
		DISTORTION?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A	N/A
		LENSADJMODE?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK	OK
		OVSCAN?	N/A	OK	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)	00:Off 02:4% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK	OK
	Auto source search	AUTOSEARCH x1	---	○	OK	OK
		AUTOSEARCH?	---	○	OK	OK
		Parameter/Return code			00: Off 01: On	00: Off 01: On
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK	OK
		BRIGHT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK	OK
		CONTRAST?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK	OK
		DENSITY?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK	OK
		TINT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK	OK
		SHARP x1 x2	N/A	OK	N/A	N/A
		Parameter			x1:0-255 INC/DEC/INIT	x1:0-255 INC/DEC/INIT
		SHARP?			OK	OK
		SHARP? x1	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			0-255	0-255
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK	OK
		CTEMP?	N/A	OK	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (PC)
	11	OK (RGB)
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	16-1E	N/A
	1F	N/A
INPUT2 (20 is the "INPUT2" button of remote controller)	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
未定義	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	OK (USB)
	53	OK (LAN)
	54	N/A
	55	N/A
	56	OK (Screen Mirroring)
	57-5F	N/A
Video advanced (SDI)	60	N/A
	61-63	N/A
		N/A
		N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBasecT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Unused	90-9F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A

	FCOLOR?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming color mode	CMODE xx	N/A	OK	OK	OK
	CMODE?	N/A	OK	OK	OK
	Parameter/Return code			06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)	06: Dynamic 07: Natural 0C: Bright Cinema 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK	OK
	HPOS?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK	OK
	VPOS?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK	OK
	TRACKING?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK	OK
	SYNC?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK	OK
	Parameter			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	NRS?	N/A	OK	OK	OK
	Return code			0-255	0-255
MPEG noise reduction	MPEGNRS x1	N/A	OK	OK	OK
	MPEGNRS?	N/A	OK	OK	OK
				0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A	N/A
	MNRS?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A	N/A
	BNRS?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK	OK
	OFFSETR?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK	OK
	OFFSETG?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK	OK
	OFFSETB?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK	OK
	GAINR?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK	OK
	GAING?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK	OK
	GAINB?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A	N/A
	GAMMA?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A	N/A
	Parameter			N/A	N/A
	GAMMALV? xx	N/A	OK	N/A	N/A
	Parameter			N/A	N/A
	Return code			N/A	N/A
Call of memory	POPMEM x1 x2	N/A	OK	OK	OK
	Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10	x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
Registration of memory	PUSHMEM x1 x2	N/A	OK	OK	OK
	Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10	x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK	OK
	Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10	x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
Confirming of the color	CSEL?	N/A	OK	OK	OK
	Return code			07: RGB/RGBCMY	07: RGB/RGBCMY
Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A	N/A
	CGAMUT?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A	N/A
	ACE?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A	N/A
	4KENHANCE?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	OK	OK
	IMGPRESET?	N/A	OK	OK	OK
	Parameter/Return code			00: Off 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5	00: Off 01: Preset 1 02: Preset 2 03: Preset 3 04: Preset 4 05: Preset 5
Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A	N/A
	SUPERRES?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming Super resolution (High)	SHRF x1	N/A	OK	N/A	N/A
	SHRF?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming Super resolution (Low)	SHRS x1	N/A	OK	N/A	N/A
	SHRS?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Detail Enhancement: Setting/Confirming range value	DERANGE x1	N/A	OK	N/A	N/A
	Parameter			N/A	N/A
	DERANGE?	N/A	OK	N/A	N/A
	Return code			N/A	N/A
Detail Enhancement: Setting/Confirming strength value	DESTRENGTH x1	N/A	OK	OK	OK
	Parameter			0-255 INC/DEC/INIT	0-255 INC/DEC/INIT
	DESTRENGTH?	N/A	OK	OK	OK

IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp 2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	OK
HDMI/Video	46	N/A
Video1/Video 2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	N/A
On-Screen	4C	N/A
Memory	6A	N/A
Memory	61	OK
Distortion+	62	N/A
Distortion-	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	59	N/A
Info	1F	N/A
Geometry	6B	N/A
0(10 key)	70	N/A
1(10 key)	71	N/A
2(10 key)	72	N/A
3(10 key)	73	N/A
4(10 key)	74	N/A
5(10 key)	75	N/A
6(10 key)	76	N/A
7(10 key)	77	N/A
8(10 key)	78	N/A
9(10 key)	79	N/A
. (10 key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK

	CF	N/A
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reservation (use for internal communication)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,USB,LAN,Screen Mirroring)
	F2 (Video)	OK (HDMI1,HDMI2,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Return code			0-255	0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A	N/A
		PULLDOWN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	OK	OK
		MCFI?	N/A	OK	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)	00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
	Setting/Confiming color space (HDR)	CLRSPACE x1	N/A	OK	N/A	N/A
		CLRSPACE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confiming dynamic range(HDR)	DYNRANGE x1	N/A	OK	N/A	N/A
		DYNRANGE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK	OK
		VOL?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		AUDIO? [source]	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A	N/A
		AUDIOOUT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK	OK
		MUTE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)	ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A	N/A
		FREEZE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Call of LCD alignment memory	POPLA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
	Registration of LCD alignment memory	PUSHLA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
	Deletion of LCD alignment memory	ERASELA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK	OK
		HREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK	OK
		VREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK	OK
		MSEL?	N/A	OK	OK	OK
					00:Black 01:Blue 02:User logo INIT (Setting only)	00:Black 01:Blue 02:User logo INIT (Setting only)
					OK	OK
		Parameter/Return code			OK	OK
	Reset All	INITALL	N/A	OK	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
		SPEED?	N/A	N/A	OK	OK
		Return code			OK	OK
	Setting/Confirming illumination	ILLUM xx	N/A	OK	00: Off 01: On INIT (Setting only)	00: Off 01: On INIT (Setting only)
		ILLUM?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Call of lens position	POPLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A	N/A
		MENUDISP? mode	N/A	OK		
		Parameter/Return code			N/A	N/A
					N/A	N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	N/A	N/A
		STANDBYCONF?	N/A	N/A	OK	OK(Not support the NW)
		Parameter/Return code			OK	OK(Not support the NW)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	00: OFF 01: ON INIT (Setting only)	00: OFF 01: ON INIT (Setting only)
		PRODUCT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming EDID	EDID x1	N/A	OK	N/A	N/A
		EDID?	N/A	OK	OK	OK
		Parameter/Return code			OK	OK
Home Screen	auto display of home screen	AUTOHOME x1	N/A	OK	00: Off 01: On	00: Off 01: On
		AUTOHOME?	N/A	OK	OK	OK
		Parameter/Return code			OK	OK
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function 01: changing luminance 06: auto iris 07: keystone 08: information	"x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function 01: changing luminance 06: auto iris 07: keystone 08: information"
		HFUNC? x1	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A	N/A
		AMXDDDP?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	OK
	Wireless power setting	WLPWR x1	N/A	OK	N/A	00: OFF 01: Wireless LAN => ON (with screen mirroring) 01: Wireless LAN =>ON 02: Screen Mirroring =>ON 00: Both function are OFF
		WLPWR?	N/A	OK	N/A	OK

USB Display	85	N/A
USB	85	OK(Slideshow)
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	N/A
LAN	8A	OK
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K Image Enh	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
Mirroring (Screen Mirroring)	C3	N/A

WB Remote Control Key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	N/A

KEYGET Command Return Code list

*KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	

		Parameter/Return code			N/A	OK
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A	00: Off 01: On
		WDPWR?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	OK
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A	00: Off 01: On
		WDNAME?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A	N/A
		WDIF?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	OK
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A	01: setting1 (fine) 02: setting2 03: setting3 04: setting4 (fast)
		WDPERF?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A	N/A
			N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A	N/A
		WDPINNOTIFY?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A	OK
		Parameter/Return code			N/A	N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A	OK
		Parameter/Return code			N/A	version string
	Getting WFD protocol version	WDVER?	N/A	OK	OK	OK
		Return code			OK	OK
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	00: Off 01: On	x1: display name(1~32 characters)
		BTAUDIO?	N/A	OK	OK	OK
		Parameter/Return code			LAMP=x1 x1: lamp operation time	LAMP=x1 x1: lamp operation time
Information	Getting lamp operation time	LAMP?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Getting projector on time	ONTIME?	N/A	OK	OK	OK
		Return code			00: No signal 01: 2D signal 02: 3D signal FF: Not supported signal	00: No signal 01: 2D signal 02: 3D signal FF: Not supported signal
	Getting signal state	SIGNAL?	N/A	OK	OK	OK
		Return code			00: No signal 01: 2D signal 02: 3D signal FF: Not supported signal	SNO=x1 x1: serial number
	Getting serial number	SNO?	N/A	OK	OK	
		Return code			SNO=x1 x1: serial number	

0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	PL-HomeCInema1040	EH-TW540 PL-HomeCInema740HD/640
Power Control	Power On	PWR ON	OK	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby 09: A/V standby	00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby 09: A/V standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK	OK
		VKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK	OK
		HKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)	ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK	OK
		Parameter			x1:x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)	x1:x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.	0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)	x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)	control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK	OK
		Parameter/Return code			00:Off 01:On INIT (Setting only)	00:Off 01:On INIT (Setting only)
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A	N/A
		CORRECTMET?	N/A	OK	OK	OK
		Return code			01: Keystone function 02: Quick Corner	01: Keystone function 02: Quick Corner
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK	OK
		ASPECT?	N/A	OK	OK	OK
		Parameter/Return code			00: Normal 20: 16:8 30: Auto 40: Full 50: Zoom 60: Real INIT (Setting only)	(XGA/SVGA) 00: Normal 10: 4:3 20: 16:9 30: Auto INIT (Setting only) (WXGA) 00: Normal 20: 16:9 30: Auto 40: Full 50: Zoom 60: Real INIT (Setting only) <Auto> x1:Mode x2:Auto
	Setting zoom size / subtitle position	ZOOMSIZEPOS mode sp	N/A	OK	N/A	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK	OK
		LUMINANCE?	N/A	OK	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)	00:Normal 01:Eco INIT (Setting only)
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	N/A	OK(H801)
		ZOOM?	OK	OK	N/A	OK(H801)
		Parameter/Return code			N/A	Electrical Tele Wide 0-255 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming focus value	FOCUS xxx	OK	OK	N/A	N/A
		FOCUS?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	N/A	N/A
		Return code			N/A	N/A
		LENS?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	N/A	N/A
		Parameter			N/A	N/A
		HLENS?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming distortion value	DISTORTION x1	OK	OK	N/A	N/A
		Parameter			N/A	N/A
		DISTORTION?	OK	OK	N/A	N/A
		Return code			N/A	N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A	N/A
		LENSADJMODE?	OK	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK	OK
		OVSCAN?	N/A	OK	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% INIT (Setting only)	00:Off 02:4% 04:8% INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK	OK
	Auto source search	AUTOSEARCH x1	—	○	OK	OK
		AUTOSEARCH?	—	○	OK	OK
		Parameter/Return code			00: Off 01: On	00: Off 01: On
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK	OK
		BRIGHT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK	OK
		CONTRAST?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK	OK
		DENSITY?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK	OK
		TINT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK	OK
		SHARP x1 x2	N/A	OK	N/A	N/A
		Parameter			x1:0-255 INC/DEC/INIT	x1:0-255 INC/DEC/INIT
		SHARP?			OK	OK
		SHARP? x1	N/A	OK	N/A	N/A

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	OK
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	PL-HomeCInema1040	EH-TW540 PL-HomeCInema740HD/640
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK	OK
	11	OK (RGB)	OK (RGB)
	12	N/A	N/A
	13	N/A	N/A
	14	OK (Component)	OK (Component)
	15	N/A	N/A
	16-1E	N/A	N/A
	1F	OK (Auto)	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	N/A	N/A
	21	N/A	N/A
	22	N/A	N/A
	23	N/A	N/A
	24	N/A	N/A
	25	N/A	N/A
	26-2E	N/A	N/A
	2F	N/A	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI)	OK (HDMI)
	31	(Digital-RGB)	(Digital-RGB)
	32	N/A	N/A
	33	(RGB-Video)	(RGB-Video)
	34	(YCbCr)	(YCbCr)
	35	(YPbPr)	(YPbPr)
	36-3E	N/A	N/A
	3F	(When replying "SOURCES?")	(When replying "SOURCES?")
VIDEO	40	OK	OK
VIDEO(RCA)	41	OK (Video)	OK (Video)
VIDEO(S)	42	N/A	OK (S-Video)
VIDEO(YCbCr)	43	N/A	N/A
VIDEO(YPbPr)	44	N/A	N/A
VIDEO(BNC)	45	N/A	N/A
VIDEO(AUX)	46	N/A	N/A
VIDEO07	47	N/A	N/A
VIDEO08	48	N/A	N/A
VIDEO09	49	N/A	N/A
未定義	4A-4F	N/A	N/A
EasyMP	50	N/A	N/A
	51	OK (USB Display)	OK (USB Display)
	52	OK (USB)	OK (USB)
	53	OK (LAN)	OK (LAN)
	54	N/A	N/A
	55	N/A	N/A
	56	N/A	N/A
	57-5F	N/A	N/A
Video advanced (SDI)	60	N/A	N/A
	61-63	N/A	N/A
		N/A	N/A
		N/A	N/A
	64	N/A	N/A
	65	N/A	N/A
	66-6E	N/A	N/A
	6F	N/A	N/A
DisplayPort	70	N/A	N/A
	71	N/A	N/A
	72	N/A	N/A
	73	N/A	N/A
	74	N/A	N/A
	75	N/A	N/A
	76-7E	N/A	N/A
	7F	N/A	N/A
HDBaseT	80	N/A	N/A
	81	N/A	N/A
	82	N/A	N/A
	83	N/A	N/A
	84	N/A	N/A
	85	N/A	N/A
	86-8E	N/A	N/A
	8F	N/A	N/A
Unused	90-9F	N/A	N/A
DVI/HDMI advanced	A0	OK (HDMI2)	N/A
	A1	(Digital-RGB)	N/A
	A2	N/A	N/A
	A3	(RGB-Video)	N/A
	A4	(YCbCr)	N/A
	A5	(YPbPr)	N/A
	A6-AE	N/A	N/A
	AF	(When replying "SOURCES?")	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A	N/A
	B1	N/A	N/A
	B2	N/A	N/A
	B3	N/A	N/A
	B4	N/A	N/A
	B5	N/A	N/A
	B6-BE	N/A	N/A
	BF	N/A	N/A
INPUT5 (C0 is the "INPUT5" button of remote	C0	N/A	N/A

		Parameter			N/A	N/A
		Return code			0-255	0-255
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK	OK
		CTEMP?	N/A	OK	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A	N/A
		FCOLOR?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK	OK
		CMODE?	N/A	OK	OK	OK
		Parameter/Return code			06: Dynamic 0C:Bright Cinema 0D: Game 15: Cinema INIT (Setting only)	06: Dynamic 0C:Bright Cinema 0D: Game 15: Cinema INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK	OK
		HPOS?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK	OK
		VPOS?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK	OK
		TRACKING?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK	OK
		SYNC?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK	OK
		Parameter			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		NRS?	N/A	OK	OK	OK
		Return code			0-255	0-255
	MPEG noise reduction	MPEGNRS x1	N/A	OK	N/A	N/A
		MPEGNRS?	N/A	OK	N/A	N/A
					N/A	N/A
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A	N/A
		MNRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A	N/A
		BNRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK	OK
		OFFSETR?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK	OK
		OFFSETG?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK	OK
		OFFSETB?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK	OK
		GAINR?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK	OK
		GAING?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK	OK
		GAINB?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A	N/A
		GAMMA?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		GAMMALV? xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Call of memory	POPMEM x1 x2	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Confiming of the color	CSEL?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A	N/A
		CGAMUT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A	N/A
		ACE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A	N/A
		4KENHANCE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	N/A	N/A
		IMGPRESET?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A	N/A
		SUPERRES?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Super resolution (High)	SHRF x1	N/A	OK	N/A	N/A
		SHRF?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Super resolution (Low)	SHRS x1	N/A	OK	N/A	N/A
		SHRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Detail Enhancement: Setting/Confirming range value	DERANGE x1	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		DERANGE?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Detail Enhancement: Setting/Confirming strength value	DESTRENGTH x1	N/A	OK	OK	N/A
		Parameter			0-255 INC/DEC/INIT	N/A
		DESTRENGTH?	N/A	OK	OK	N/A
		Return code			0-255	N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A	N/A
		PULLDOWN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	N/A	N/A
		MCFI?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confiming color space (HDR)	CLRSPACE x1	N/A	OK	N/A	N/A
		CLRSPACE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confiming dynamic range(HDR)	DYNRANGE x1	N/A	OK	N/A	N/A
		DYNRANGE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK	OK
		VOL?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		AUDIO? [source]	N/A	OK	N/A	N/A

Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	OK
Page Down	69	OK
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	OK
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	OK
Comp1/Comp 2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	OK
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	OK
HDMI1/Video	46	N/A
Video1/Video 2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
Freeze	47	OK
Still	47	N/A
E-Zoom+	28	OK
E-Zoom-	29	OK
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	OK
On-Screen	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Distortion+	62	N/A
Distortion-	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	OK
Info	1F	N/A
Geometry	6B	N/A
0(10 key)	70	N/A
1(10 key)	71	N/A
2(10 key)	72	N/A
3(10 key)	73	N/A
4(10 key)	74	N/A
5(10 key)	75	N/A
6(10 key)	76	N/A
7(10 key)	77	N/A
8(10 key)	78	N/A
9(10 key)	79	N/A
_(10 key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User	84	OK
USB Display	85	N/A
USB	85	OK
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
LAN	8A	OK
LAN/USB	8A	N/A
ID	8F	OK
ID+HELP	8F	N/A
ID=0	90	OK
ID=1	91	OK
ID=2	92	OK
ID=3	93	OK
ID=4	94	OK
ID=5	95	OK
ID=6	96	OK
ID=7	97	OK
ID=8	98	OK
ID=9	99	OK
Lens Iris	8B	N/A

controller)	C1	N/A	N/A
	C2	N/A	N/A
	C3	N/A	N/A
	C4	N/A	N/A
	C5	N/A	N/A
	C6-CE	N/A	N/A
	CF	N/A	N/A
HDMI advanced	D0	N/A	N/A
	D1	N/A	N/A
	D2	N/A	N/A
	D3	N/A	N/A
	D4	N/A	N/A
	D5	N/A	N/A
	D6-DE	N/A	N/A
	DF	N/A	N/A
Reservation (use for internal communication)	E0-EF	N/A	N/A
Change cyclic	F0 (For all source)	OK	OK
	F1 (PC)	OK (PC,USB Display,USB,LAN)	OK (PC,USB Display,USB,LAN)
	F2 (Video)	OK (HDMI,HDMI2,Video)	○ (HDMI,S-Video,Video)
	F3	N/A	N/A
	F4	N/A	N/A
	F5-FF	N/A	N/A

		Parameter			N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A	N/A
		AUDIOOUT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK	OK
		MUTE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)	ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK	OK
		FREEZE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)	ON :Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A	N/A
		Parameter			INIT	INIT
		Return code				
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Call of LCD alignment memory	POPLA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
	Registration of LCD alignment memory	PUSHLA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
	Deletion of LCD alignment memory	ERASELA x1	—	○	N/A	N/A
		Parameter			N/A	N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK	OK
		HREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK	OK
		VREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK	OK
		MSEL?	N/A	OK	OK	OK
					00:Black 01:Blue 02:User logo INIT (Setting only)	00:Black 01:Blue 02:User logo INIT (Setting only)
					OK	OK
		Parameter/Return code			OK	OK
	Reset All	INITALL	N/A	OK	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
		SPEED?	N/A	N/A	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A	N/A
		ILLUM?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Call of lens position	POPLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A	N/A
		MENUDISP? mode	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	N/A	N/A
		STANDBYCONF?	N/A	N/A	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A	N/A
		PRODUCT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming EDID	EDID x1	N/A	OK	N/A	N/A
		EDID?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Home Screen	auto display of home screen	AUTOHOME x1	N/A	OK	OK	OK
		AUTOHOME?	N/A	OK	OK	OK
		Parameter/Return code			00: Off 01: On	00: Off 01: On
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	OK	OK
		HFUNC? x1	N/A	OK	OK	OK
		Parameter/Return code			x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function (Business) 00: color mode 01: changing luminance 02: test pattern 03: network setting 04: eco mode setting 05: closed caption (EAI only)	x1 = customization target 01: customization func1 (L1) 02: customization func2 (R2) x2 = assigning function (Business) 00: color mode 01: changing luminance 02: test pattern 03: network setting 04: eco mode setting 05: closed caption (EAI only)
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	OK	OK
		Return code			N/A	N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A	N/A
		AMXDDDP?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Wireless power setting	WLPWR x1	N/A	OK	OK	OK
		WLPWR?	N/A	OK	OK	OK
		Parameter/Return code			00: OFF 01: Wireless LAN => ON	00: OFF 01: Wireless LAN => ON
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A	N/A
		WDPWR?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A	N/A
		WDNAME?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A	N/A
		WDIF?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A	N/A
		WDPERF?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A	N/A
			N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A	N/A
		WDPINNOTIFY?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	N/A	N/A
		BTAUDIO?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK	OK
		Return code			LAMP=x1 x1: lamp operation time	LAMP=x1 x1: lamp operation time
	Getting projector on time	ONTIME?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Getting signal state	SIGNAL?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Getting serial number	SNO?	N/A	OK	OK	OK
		Return code			SNO=x1 x1: serial number	SNO=x1 x1: serial number

Super Res Super Res/4K Image Enh	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	OK
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	N/A
Stop	D2	N/A
Pause	D3	N/A
Rewind	D4	N/A
Fast Forward	D5	N/A
Backward	D6	N/A
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
Mirroring (Screen Mirroring)	C3	N/A

WB Remote Control Key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	N/A

KEYGET Command Return Code list

*KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Home
0000000100	09	Enter
0000000200	10	Power
0000000400	11	SourceSearch
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-LS9600W PL-Pro Cinema LS9600e EH/CH-LS10000 PL-Pro Cinema LS10000
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby 07: WirelessHD standby (LS9600W/e only)
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto <Auto> x1:Mode x2:Auto
	Setting zoom size / subtitle position	ZOOMSIZEPOS mode sp	N/A	OK	OK
		ZOOMSIZEPOS? mode	N/A	OK	OK
		Parameter/Return code			
	Setting screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00: High 01: Low 02: Middle INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	OK
		ZOOM?	OK	OK	OK
		Parameter/Return code			Electrical zoom 0-1023 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming focus value	FOCUS xxx	OK	OK	OK
		FOCUS?	OK	OK	OK
		Parameter/Return code			Electrical focus 0-1023 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	OK
		LENS?	OK	OK	OK
		Parameter/Return code			Electrical lens shift 0-1023(vertical) MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	OK
		HLENS?	OK	OK	OK
		Parameter/Return code			Electrical lens shift 0-1023(horizontal) MIN/MAX/INC/DEC/OFF (Setting only)
	Lens adjustment mode	LENSADJMODE	OK	OK	OK
		LENSADJMODE?	OK	OK	OK
		Parameter/Return code			01: setting1 02: setting2 03: setting3
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	—	○	N/A
		AUTOSEARCH?	—	○	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH/CH-LS9600W PL-Pro Cinema LS9600e EH/CH-LS10000 PL-Pro Cinema LS10000
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/Easy MP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	OK
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH/CH-LS9600W PL-Pro Cinema LS9600e EH/CH-LS10000 PL-Pro Cinema LS10000
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (Component(3RCA))
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK (Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	OK (Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
undefined	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
Video advanced (SDI)	60	N/A
	61-63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Not Used	90-9F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A

	Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass 03: Gain for high and low-pass at the same time 04: Accentuation of H sharpness 05: Accentuation of V sharpness
	SHARP?			N/A
	SHARP? x1	N/A	OK	OK
	Parameter			Refer to the 2nd parameter of "SHARP" command (except "03")
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			(LS9600W/e) 06: Dynamic 07: Natural 0C: Living 13: THX (Only THX model) 15: Cinema 16: Stage (Only Japan model) 17: 3D Cinema 18: 3D Dynamic 19: 3D THX (Only THX model) 20: B&W Cinema (Only EAI model) INIT (Setting only) (LS10000) 06: Dynamic 07: Natural 0C: Living 13: THX (Only THX model) 15: Cinema 16: Stage (Only Japan model) 17: 3D Cinema 18: 3D Dynamic 19: 3D THX (Only THX model) 20: B&W Cinema (Only EAI model) 21: Adobe RGB 22: Degital Cinema INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	Parameter			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
	NRS?	N/A	OK	OK
	Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3
MPEG noise reduction	MPEGNRS x1	N/A	OK	N/A
	MPEGNRS?	N/A	OK	N/A
				N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK
	GAING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK

Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/Easy MP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	OK
Not Used	62	N/A
Not Used	63	N/A
Lens	64	OK
Lens 1	65	OK
Lens 2	66	OK
Preset	60	N/A
PinP	27	OK
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A

	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	OK (WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Reservation (use for internal communication)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD, Component,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Refer to the 1st parameter of "GAMMALV" command
		Return code			0-255
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	OK
		CGAMUT?	N/A	OK	OK
		Parameter/Return code			01: HDTV 02: EBU 03:SMPTE-C INIT (Setting only)
	Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	OK
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			(LS9600W/e) 00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only) (LS10000) 00: Off 01: Setting 1 11: 4K-1 02: Setting 2 12: 4K-2 03: Setting 3 13: 4K-3 04: Setting 4 14: 4K-4 05: Setting 5 15: 4K-5 INIT (Setting only)
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK
		SUPERRES?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only)
	Setting/Confirming Super resolution 1 setting	SHR1 x1	N/A	OK	N/A
		SHR1?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution 2 setting	SHR2 x1	N/A	OK	N/A
		SHR2?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution 3 setting	SHR3 x1	N/A	OK	N/A
		SHR3?	N/A	OK	N/A
		Parameter/Return code			N/A
	Detail Enhancement: Setting/Confirming Range	DERANGE x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DERANGE?	N/A	OK	OK
		Return code			0-255
	Detail Enhancement: Setting/Confirming Strength	DESTRENGTH x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DESTRENGTH?	N/A	OK	OK
		Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A

Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A
5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User	84	OK (LS10000 only)
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK (LS10000 only)
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	OK (LS10000 only)
Super Res Super Res/4K Image Enh	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK
Anamorphic	9B	OK
H Squeeze	9C	OK
Split	A0	OK
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	OK
WirelessHD	A2	OK (LS9600W only)
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	OK (LS10000 only)
~~Image Filter~~	~~C2~~	~~N/A~~

WB Remote Control Key	Code	

	A\V output setting/confirming	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fadein	FADEIN x1	N/A	OK	N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fadeout	FADEOUT x1	N/A	OK	N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming closed caption	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter Return code			N/A N/A
	Call of LCD alignment memory	POPLA x1	—	○	N/A
		Parameter			N/A
	Registration of LCD alignment memory	PUSHLA x1	—	○	N/A
		Parameter			N/A
	Deletion of LCD alignment memory	ERASELA x1	—	○	N/A
		Parameter			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
		SPEED?	N/A	N/A	OK
		Return code			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Registration of lens position	PUSHLP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Deletion of lens position	ERASELP xx	N/A	OK	OK
		Parameter			01: memory1 02: memory2 03: memory3 04: memory4 05: memory5 06: memory6 07: memory7 08: memory8 09: memory9 0A: memory10
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	OK
		MENUDISP? mode	N/A	OK	OK
		Parameter/Return code			mode: Choose the setting mode 01: Menu position 02: Menu color param=01 00: center 01: Left - Center 02: Left - Top 03: Center - Top 04: Right - Top 05: Right - Center 06: Right - Bottom 07: Center - Bottom 08: Left - Bottom INIT (Setting only) param=02 00: color1 (gray) 01: color2 (orange) INIT (Setting only)
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A

Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	N/A

KEYGET Command Return Code list

*KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	OK
		STANDBYCONF?	N/A	N/A	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	"On touch OFF" setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
Home screen	auto display of home screen	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	N/A
		HFUNC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	OK
		Return code			"The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> <-GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	OK
		AMXDDDP?	N/A	OK	OK
		Parameter/Return code			00: BeaconMessage stop 01: BeaconMessage start INIT (Setting only)
	Extron XTP Setting/Receive	N/A	N/A	OK	N/A
		N/A	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Art-Net setting	ARTNET x1	N/A	OK	N/A
		ARTNET?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming Art-Net Port	ARTPORT x1	N/A	OK	N/A
		ARTPORT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Art-Net DMX channel	ARTSADRS x1	N/A	OK	N/A
		ARTSADRS?	N/A	OK	N/A
		Return code			N/A
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A
		WDPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A
		Return code			N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
security					N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			LAMP=x1 x1: lamp operation time
	Getting projector on time	ONTIME?	N/A	OK	OK
		Return code			ONTIME=x1 x1: on time
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1: serial number
	Setting/Confirming Control4 SDDP	IMNWSDDP	N/A	OK	OK (LS10000)
		IMNWSDDP?	N/A	OK	OK (LS10000)
		Parameter/Return code			00: Off (SDDP disabled) 01: On (SDDP enabled)

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH-TW6600/PL-Home Cinema 3500/PL-Home Cinema 3510/CH-TW6600 EH-TW6600W/PL-Home Cinema 3600e/CH-TW6600W PL-Home Cinema 3000/CH-TW6200
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby 07: WirelesshHD standby (W/e model only)
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto [illegible] <Auto> x1:Mode x2:Auto
	Setting zoom size / subtitlte position	ZOOMSIZEPOS mode sp	N/A	OK	OK
		ZOOMSIZEPOS? mode	N/A	OK	OK
		Parameter/Return code			
	Setting screen type	SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00: High 01: Low 02: Middle INIT (Setting only) *The value which was set into the color mode of an projection image will be returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	N/A
		ZOOM?	OK	OK	N/A
		Parameter/Return code			Electrical zoom 0-1023 MIN/MAX/INC/DEC/OFF (Setting only)
	Setting/Confirming focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	N/A
		LENS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	N/A
		HLENS?	OK	OK	N/A
		Parameter/Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto source search	AUTOSEARCH x1	—	○	N/A
		AUTOSEARCH?	—	○	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH-TW6600/PL-Home Cinema 3500/PL-Home Cinema 3510/CH-TW6600 EH-TW6600W/PL-Home Cinema 3600e/CH-TW6600W PL-Home Cinema 3000/CH-TW6200
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/Easy MP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW6600/PL-Home Cinema 3500/PL-Home Cinema 3510/CH-TW6600 EH-TW6600W/PL-Home Cinema 3600e/CH-TW6600W PL-Home Cinema 3000/CH-TW6200
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (Component(3RCA))
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK (Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	OK (Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
undefined	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	OK (USB)
	53	OK (LAN)
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
Video advanced (SDI)	60	N/A
	61-63	N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Not Used	90-9F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A

	Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass 03: Gain for high and low-pass at the same time 04: Accentuation of H sharpness 05: Accentuation of V sharpness
	SHARP?			N/A
	SHARP? x1	N/A	OK	OK
	Parameter			Refer to the 2nd parameter of "SHARP" command (except "03")
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			00: Auto 06: Dynamic 07: Natural 0C: Living 15: Cinema 17: 3D Cinema 18: 3D Dynamic C1: AutoColorAdjustment (for debugging) INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	Parameter			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
	NRS?	N/A	OK	OK
	Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3
MPEG noise reduction	MPEGNRS x1	N/A	OK	N/A
	MPEGNRS?	N/A	OK	N/A
				N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK
	GAING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK
	Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
	Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
	GAMMALV? xx	N/A	OK	OK
	Parameter			Refer to the 1st parameter of "GAMMALV" command
	Return code			0-255
Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A

Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/Easy MP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom+	28	N/A
E-Zoom-	29	N/A
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Not Used	4C	N/A
Memory	6A	N/A
Memory	61	OK
Not Used	62	N/A
Not Used	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	OK
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10Key)	70	N/A
1(10Key)	71	N/A
2(10Key)	72	N/A
3(10Key)	73	N/A
4(10Key)	74	N/A

	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	OK (WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Reservation (use for internal communication)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,USB,LAN)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD(H652), Component,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	OK (H651/H652)
		IMGPRESET?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only)
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK
		SUPERRES?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only)
	Setting/Confirming Super resolution 1 setting	SHR1 x1	N/A	OK	N/A
		SHR1?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution 2 setting	SHR2 x1	N/A	OK	N/A
		SHR2?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution 3 setting	SHR3 x1	N/A	OK	N/A
		SHR3?	N/A	OK	N/A
		Parameter/Return code			N/A
	Detail Enhancement: Setting/Confirming Range	DERANGE x1	N/A	OK	N/A
		Parameter			N/A
		DERANGE?	N/A	OK	N/A
		Return code			N/A
	Detail Enhancement: Setting/Confirming Strength	DESTRENGTH x1	N/A	OK	OK
		Parameter			0-255 INC/DEC/INIT
		DESTRENGTH?	N/A	OK	OK
		Return code			0-255
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	A\V output setting/confirming	AVOUT x1	N/A	OK	N/A
		AVOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	OK (H651/H652)
		AUDIOOUT?	N/A	OK	OK (H651/H652)
		Parameter/Return code			10: Off (normal) 11: On (reversed) INIT (Setting only)
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fadein	FADEIN x1	N/A	OK	N/A
		FADEIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming fadeout	FADEOUT x1	N/A	OK	N/A
		FADEOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming closed caption	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A

5(10Key)	75	N/A
6(10Key)	76	N/A
7(10Key)	77	N/A
8(10Key)	78	N/A
9(10Key)	79	N/A
. (10Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User	84	OK
USB Display	85	N/A
USB	85	OK
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res Super Res/4K Image Enh	8C	OK
Frame Int	8D	N/A
HDMI Link	8E	OK
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	N/A
WirelessHD	A2	OK
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	OK
iPod Control	D0	N/A
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	OK
Dynamic Contrast	C1	N/A
~~Image Filter~~	~~C2~~	~~N/A~~

WB Remote Control Key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	N/A

KEYGET Command Return Code list

"KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	
0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	

		Parameter			N/A
		Return code			
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	—	○	N/A
		Parameter			N/A
	Registration of LCD alignment memory	PUSHLA x1	—	○	N/A
		Parameter			N/A
	Deletion of LCD alignment memory	ERASELA x1	—	○	N/A
		Parameter			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
		SPEED?	N/A	N/A	OK
		Return code			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: Off 01: On INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming message display position	MSGPOS x1	N/A	OK	N/A
		MSGPOS?	N/A	OK	N/A
		Parameter/Return code			N/A
	On screen setting	ONSCREEN x1	N/A	OK	N/A
		ONSCREEN?	N/A	OK	N/A
		Parameter			N/A
	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	OK
		STANDBYCONF?	N/A	N/A	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming installation angle	ANGLE param	N/A	OK	N/A
		ANGLE?	N/A	OK	N/A
		Parameter/Return code			N/A
	ECO display setting	PSDISP mode	N/A	OK	N/A
		PSDISP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Startup source search setting	STSEARCH mode	N/A	OK	N/A
		STSEARCH?	N/A	OK	N/A
		Parameter/Return code			N/A
	Lamp select	LAMPSEL x1	N/A	OK	N/A
		LAMPSEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	On touch OFF setting	INSTANTOFF x1	N/A	OK	N/A
		INSTANTOFF?	N/A	OK	N/A
		Parameter/Return code			N/A
Home screen	auto display of home screen	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	N/A
		HFUNC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Extron XTP Setting/Receive	N/A	N/A	OK	N/A
		N/A	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless power setting	WLPWR x1	N/A	OK	N/A
		WLPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Art-Net setting	ARTNET x1	N/A	OK	N/A
		ARTNET?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming Art-Net Port	ARTPORT x1	N/A	OK	N/A
		ARTPORT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Art-Net DMX channel	ARTSADRS x1	N/A	OK	N/A
		ARTSADRS?	N/A	OK	N/A
		Return code			N/A
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A

0000000040	07	
0000000080	08	
0000000100	09	Enter
0000000200	10	Power
0000000400	11	Source
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

		WDPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A
		Return code			N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
security					N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			LAMP=x1 x1: lamp operation time
	Getting projector on time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1: serial number
	Setting/Confirming Control4 SDDP	IMNWSDDP	N/A	OK	N/A
		IMNWSDDP?	N/A	OK	N/A
		Parameter/Return code			N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW7200/TW8200/8200W/9200/9200W PL-HomeCinema 5030UB/UBe PL-ProCinema 6030UB PL-ProCinema 4030
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby 07: WirelessHD Standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			PL-HomeCinema 5030UB/5030UBe, ProCInema 4030 00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only) PL-ProCinema 6030UB 00: Normal 30: Auto 40: Full 50: Zoom 80: Anamorphic 90: H squeeze INIT (Setting only) <Auto> x1:Mode x2:Auto
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
Changing Source/Input resolution setting	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	N/A
		SHARP x1 x2	N/A	OK	OK
		Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass 03: Gain for high and low-pass at the same time 04: Accentuation of H sharpness 05: Accentuation of V sharpness
		SHARP?	N/A	OK	N/A
		SHARP? x1	N/A	OK	OK
		Parameter			Refer to the 2nd parameter of "SHARP" command
		Return code			0-255
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 07: Natural 0C: Living 13: THX (Only THX model) 15: Cinema 17: 3D Cinema 18: 3D Dynamic 19: 3D THX (Only THX model) 20: B&W Cinema INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH/CH-TW7200/TW8200/8200W/9200/9200W PL-HomeCinema 5030UB/UBe PL-ProCinema 6030UB PL-ProCinema 4030
Operation		
Power	01	OK
Menu	03	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Source	48	OK

IR	Code	
Power ON	3B	OK
Power OFF	6C	OK
Menu	3C	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Component	43	OK
PC	44	OK
Video	46	OK
HDMI2	40	OK
HDMI1	4D	OK
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Memory	61	OK
PinP	27	OK
Volume+	56	OK
Volume-	57	OK
User	84	OK
Default	88	OK
RGBCMY	89	OK
Super Res Super Res/4K	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK
Anamorphic	9B	OK
H Squeeze	9C	OK
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	OK
WirelessHD	A2	OK
3D Format	AA	OK
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH/CH-TW7200/TW8200/8200W/9200/9200W PL-HomeCinema 5030UB/UBe PL-ProCinema 6030UB PL-ProCinema 4030
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (Component(3RCA))
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK (Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
HDMI advanced	D0	OK (Wireless HD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD, Component,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		NRS?	N/A	OK	OK
		Parameter/Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20: Setting 2 21: Setting 1 22: Setting 0 23: Setting -1 24: Setting -2 F0: Custome (Except for ProCinema 4030) INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK (Except for ProCinema 4030)
		Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK (Except for ProCinema 4030)
		Parameter			Refer to the 1st parameter of "GAMMALV" command
		Return code			0-255
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	OK (PL-ProCinema 6030UB only)
		CGAMUT?	N/A	OK	OK (PL-ProCinema 6030UB only)
		Parameter/Return code			01: HDTV 02: EBU 03:SMPTE-C INIT (Setting only)
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK
		SUPERRES?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only)
	Setting/Confirming pull down setting (2-2/4-4 pull down)	MCFI xx	N/A	OK	OK (Except for ProCinema 4030)
		MCFI?	N/A	OK	OK (Except for ProCinema 4030)
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
Unique function	Setting/Confirming Blank setting	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
Environment setting	Setting/Confirming LCD alignment value	LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT (Setting only)
		SPEED?	N/A	—	OK
		Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57600bps INIT (Setting only)
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
		MENUDISP mode param	N/A	OK	OK (Except for ProCinema 4030)

	Setting/Confirming menu display position	MENUDISP? mode	N/A	OK	OK (Except for ProCinema 4030)
		Parameter/Return code			mode: Choose the setting mode 01: Menu position 02: Menu color
					param=02: Menu color 01: Color 1 (Gray) 02: Color 2 (Orange) INIT (Setting only)
	Standby confirmation setting	STANDBYCONF mode	—	—	OK
		STANDBYCONF?	—	—	OK
		Parameter/Return code			00: Standby confirmation OFF 01: Standby confirmation ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial number	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password " function	Network	EH/CH-TW5200 PL-HomeCInema 2300/2000
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 30: Auto 40: Full 50: Zoom INIT (Setting only)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4%
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
		SHARP x1 x2	N/A	OK	N/A
		Parameter			x1:0-255 INC/DEC/INIT
		SHARP?			OK
		SHARP? x1	N/A	OK	N/A
		Parameter			N/A
		Return code			0-255
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return			06: Dynamic
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		NRS?	N/A	OK	OK
		Parameter/Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
	Setting/Confirming offset	OFFSETR xxx	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	EH/CH-TW5200 PL-HomeCInema 2300/2000
Operation		
Power	01	OK
Menu	03	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Source	48	OK

IR	Code	
Power	3B	OK
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
PC	44	OK
Video	46	OK
HDMI2	40	OK
HDMI1	4D	OK
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Volume+	56	OK
Volume-	57	OK
User	84	OK
USB	85	OK
Default	88	OK
RGBCMY	89	OK
LAN	8A	OK
HDMI Link	8E	OK
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	OK
3D Format	AA	OK
Play	D1	OK
Stop	D2	OK
Pause	D3	OK
Rewind	D4	OK
Fast Forward	D5	OK
Backward	D6	OK
Forward	D7	OK
Mute	D8	OK
Link Menu	D9	OK
Fine/Fast	C0	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH/CH-TW5200 PL-HomeCInema 2300/2000
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK PC
	11	OK (RGB)
	12	N/A
	13	N/A
	14	OK (Component)
	15	N/A
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
EasyMP	50	N/A
	51	N/A
	52	OK (USB)
	53	OK (LAN)
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
Change cyclic	F0	OK
	F1 (PC)	OK (PC,USB,LAN)
	F2 (Video)	OK (HDMI1,HDMI2,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

	value (Red/Blue/Green)	OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return			0-255
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		Parameter			00:9600bps
		SPEED?	N/A	—	OK
		Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	OK
		PRODUCT?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial number	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password" function	Network	EH/CH-TW570 PL-HomeCinema600
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby 09: A/V standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting Slide H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00:Off 01:On INIT (Setting only)
	Setting of correction function	CORRECTMET x1	N/A	OK	N/A
		CORRECTMET?	N/A	OK	OK
		Return code			01: Keystone function 02: Quick Corner
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00: Normal 20: 16:8 30: Auto 40: Full 50: Zoom 60: Real INIT (Setting only) <Auto> x1:Mode x2:Auto
	Setting zoom size / subtitle position	ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Setting/Confiming Zoom(Tele/Wide) value	ZOOM xxx	OK	OK	N/A
		ZOOM?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming focus value	FOCUS xxx	OK	OK	N/A
		FOCUS?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming vertical lens shift value	LENS xxx	OK	OK	N/A
		Return code			N/A
		LENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming horizontal lens shift value	HLENS xxx	OK	OK	N/A
		Parameter			N/A
		HLENS?	OK	OK	N/A
		Return code			N/A
	Setting/Confirming distortion value	DISTORTION x1	OK	OK	N/A
		Parameter			N/A
		DISTORTION?	OK	OK	N/A
		Return code			N/A
	Lens adjustment mode	LENSADJMODE	OK	OK	N/A
		LENSADJMODE?	OK	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Auto source search	AUTOSEARCH x1	—	○	N/A
		AUTOSEARCH?	—	○	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main Key	Code	
Operation		
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
Auto	14	N/A
Source	48	N/A
SourceSearch	48	OK
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
BNC	E8	N/A
DVI-D	E9	N/A
HDMI/HDBase-T	EA	N/A
LAN	EB	N/A
SDI	EC	N/A
Other		
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Lock	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Install		
Focus+	0A	N/A
Focus Boot	0A	N/A
Focus-	0B	N/A
LensShift+	0C	N/A
LensShift-	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A
Focus Help	0F	N/A
Focus	E0	N/A
Lens Shift	E1	N/A
Zoom	E2	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK
	11	OK (RGB)
	12	N/A
	13	N/A
	14	OK (Component)
	15	N/A
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	N/A
	21	N/A
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	(When replying "SOURCES?")
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	OK (S-Video)
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
未定義	4A-4F	N/A
EasyMP	50	N/A
	51	OK (USB Display)
	52	OK (USB)
	53	OK (LAN)
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
Video advanced (SDI)	60	N/A
	61-63	N/A
		N/A
		N/A
	64	N/A
	65	N/A
	66-6E	N/A
	6F	N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
HDBaseT	80	N/A
	81	N/A
	82	N/A
	83	N/A
	84	N/A
	85	N/A
	86-8E	N/A
	8F	N/A
Unused	90-9F	N/A
DVI/HDMI advanced	A0	N/A
	A1	N/A

	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
	CONTRAST?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
	DENSITY?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tint value	TINT xxx	N/A	OK	OK
	TINT?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sharpness value	SHARP x1	N/A	OK	OK
	SHARP x1 x2	N/A	OK	N/A
	Parameter			x1:0-255 INC/DEC/INIT
	SHARP?			OK
	SHARP? x1	N/A	OK	N/A
	Parameter			N/A
	Return code			0-255
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-84: Low 85-69: Middle 170-255: High INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
	FCOLOR?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			06: Dynamic 0C: Living 0D: Game 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	Parameter			01: Off 02: NR1 03: NR2 INIT
	NRS?	N/A	OK	OK
	Return code			01: Off 02: NR1 03: NR2 INIT
MPEG noise reduction	MPEGNRS x1	N/A	OK	N/A
	MPEGNRS?	N/A	OK	N/A
				N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	N/A
	OFFSETR?	N/A	OK	N/A
	Parameter/Return code			N/A
	OFFSETG xxx	N/A	OK	N/A
	OFFSETG?	N/A	OK	N/A
	Parameter/Return code			N/A
	OFFSETB xxx	N/A	OK	N/A
	OFFSETB?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	N/A
	GAINR?	N/A	OK	N/A
	Parameter/Return code			N/A
	GAING xxx	N/A	OK	N/A
	GAING?	N/A	OK	N/A
	Parameter/Return code			N/A
	GAINB xxx	N/A	OK	N/A
	GAINB?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
	GAMMA?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
	Parameter			N/A
	GAMMALV? xx	N/A	OK	N/A
	Parameter			N/A
	Return code			N/A
Call of memory	POPMEM x1 x2	N/A	OK	N/A
	Parameter			N/A
Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A
	Parameter			N/A
Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A
	Parameter			N/A
Confirming of the color	CSEL?	N/A	OK	N/A
	Return code			N/A
Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
	CGAMUT?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming contrast enhancement value	ACE xx	N/A	OK	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	OK
Page Down	69	OK
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	OK
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	OK
Comp1/Comp 2	43	N/A
Component	43	N/A
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	OK
Comp2	44	N/A
input B	44	N/A
PC	44	N/A
S-Video	45	N/A
Video	46	OK
HDMI/Video	46	N/A
Video1/Video 2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	N/A
HDMI2	C4	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
HDMI1/HDMI2	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	N/A
EasyMP	1E	N/A
Freeze	47	OK
Still	47	N/A
E-Zoom+	28	OK
E-Zoom-	29	OK
A/V Mute (Blank)	3E	OK
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	OK
On-Screen	4C	N/A
Memory	6A	N/A
Memory	61	N/A
Distortion+	62	N/A
Distortion-	63	N/A
Lens	64	N/A
Lens 1	65	N/A
Lens 2	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus+	2A	N/A
Focus-	2B	N/A
Focus	2B	N/A
LensShift+	2C	N/A
LensShift-	2D	N/A
LensShift	2D	N/A
Zoom+	2E	N/A
Zoom-	2F	N/A
Zoom	2F	N/A
Volume+	56	OK
Volume-	57	OK
EFFECT	50	N/A
Pointer	50	OK
Info	1F	N/A
Geometry	6B	N/A
0(10 key)	70	N/A
1(10 key)	71	N/A

	A2	N/A
	A3	N/A
	A4	N/A
	A5	N/A
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Reservation (use for internal communication)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,USB Display,USB,LAN)
	F2 (Video)	○ (HDMI,S-Video,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming 4K enhancement value	4KENHANCE xx	N/A	OK	N/A
		4KENHANCE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Image enhancement preset	IMGPRESET x1	N/A	OK	N/A
		IMGPRESET?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution (High)	SHRF x1	N/A	OK	N/A
		SHRF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution (Low)	SHRS x1	N/A	OK	N/A
		SHRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Detail Enhancement: Setting/Confirming range value	DERANGE x1	N/A	OK	N/A
		Parameter			N/A
		DERANGE?	N/A	OK	N/A
		Return code			N/A
	Detail Enhancement: Setting/Confirming strength value	DESTRENGTH x1	N/A	OK	N/A
		Parameter			N/A
		DESTRENGTH?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame interpolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming color space (HDR)	CLRSPACE x1	N/A	OK	N/A
		CLRSPACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming dynamic range(HDR)	DYNRANGE x1	N/A	OK	N/A
		DYNRANGE?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE x1	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK
		FREEZE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter			INIT
		Return code			
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Call of LCD alignment memory	POPLA x1	—	○	N/A
		Parameter			N/A
	Registration of LCD alignment memory	PUSHLA x1	—	○	N/A
		Parameter			N/A
	Deletion of LCD alignment memory	ERASELA x1	—	○	N/A
		Parameter			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
					00:Black 01:Blue 02:User logo INIT (Setting only)
					OK
		Parameter/Return code			OK
	Reset All	INITALL	N/A	OK	00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps INIT (Setting only)
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		Parameter			00: 9600bps 01: 19200bps 02: 38400bps 03: 57600bps FF: USB
		SPEED?	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A

2(10 key)	72	N/A
3(10 key)	73	N/A
4(10 key)	74	N/A
5(10 key)	75	N/A
6(10 key)	76	N/A
7(10 key)	77	N/A
8(10 key)	78	N/A
9(10 key)	79	N/A
. (10 key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone+	7B	N/A
Keystone-	7C	N/A
Brightness	7D	N/A
Brightness+	7D	N/A
Brightness-	7E	N/A
Contrast	7F	N/A
Contrast+	7F	N/A
Contrast-	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dγ	83	N/A
User	84	OK
USB Display	85	N/A
USB	85	OK
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
LAN	8A	OK
LAN/USB	8A	N/A
ID	8F	OK
ID+HELP	8F	N/A
ID+0	90	OK
ID+1	91	OK
ID+2	92	OK
ID+3	93	OK
ID+4	94	OK
ID+5	95	OK
ID+6	96	OK
ID+7	97	OK
ID+8	98	OK
ID+9	99	OK
Lens Iris	8B	N/A
Super Res Super Res/4K Image Enh	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	OK
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	N/A
DisplayPort	A4	N/A
HDBaseT	A6	N/A
User Button 2	A7	N/A
User Button 3	A8	N/A
Pen Mode	A9	N/A
3D Format	AA	N/A
iPod Control	D0	N/A
Play	D1	N/A
Stop	D2	N/A
Pause	D3	N/A
Rewind	D4	N/A
Fast Forward	D5	N/A
Backward	D6	N/A
Forward	D7	N/A
Mute	D8	N/A
Link Menu	D9	OK
Fine/Fast	C0	N/A
Dynamic Contrast	C1	N/A
Gesture	C2	N/A
Mirroring (Screen Mirroring)	C3	N/A

WB Remote Control Key	Code	
Power	AB	N/A
SourceSearch	AC	N/A
Capture	AD	N/A
Save	AE	N/A
Print	AF	N/A
WB	B0	N/A

MHLKEY notification Code

Key Code	Code	
KEY POP	FF	OK

KEYGET Command Return Code list

*KEYGET return code will be "0000000000" when the remote controller is unpushed.

ReturnCode	No.	

	Standby confirmation setting	STANDBYCONF mode	N/A	N/A	N/A
		STANDBYCONF?	N/A	N/A	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming EDID	EDID x1	N/A	OK	N/A
		EDID?	N/A	OK	N/A
		Parameter/Return code			N/A
Home Screen	auto display of home screen	AUTOHOME x1	N/A	OK	N/A
		AUTOHOME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming home screen customization function	HFUNC x1	N/A	OK	N/A
		HFUNC? x1	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N.A	OK
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
	Wireless power setting	WLPWR x1	N/A	OK	OK
		WLPWR?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Wireless LAN => ON
Screem Mirroring	Setting/Confirming Screen Mirroring(WFD power)	WDPWR x1	N/A	OK	N/A
		WDPWR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD display name	WDNAME x1	N/A	OK	N/A
		WDNAME?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WLAN system	WDIF x1	N/A	OK	N/A
		WDIF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confiming WFD performance adjustment	WDPERF x1	N/A	OK	N/A
		WDPERF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD WPS mode	WDWPSMODE x1	N/A	OK	N/A
			N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming WFD PIN code notification	WDPINNOTIFY x1	N/A	OK	N/A
		WDPINNOTIFY?	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting initialization	WDINIT	N/A	OK	N/A
		Parameter/Return code			N/A
	WFD setting reflection	WDRESET	N/A	OK	N/A
		Parameter/Return code			N/A
	Getting WFD protocol version	WDVER?	N/A	OK	N/A
		Return code			N/A
Bluetooth	Bluetooth audio	BTAUDIO x1	N/A	OK	N/A
		BTAUDIO?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
		Return code			LAMP=x1 x1: lamp operation time
	Getting projector on time	ONTIME?	N/A	OK	N/A
		Return code			N/A
	Getting signal state	SIGNAL?	N/A	OK	N/A
		Return code			N/A
	Getting serial number	SNO?	N/A	OK	OK
		Return code			SNO=x1 x1: serial number

0000000000	00	Unpushed
0000000001	01	
0000000002	02	
0000000004	03	
0000000008	04	
0000000010	05	
0000000020	06	
0000000040	07	
0000000080	08	Help
0000000100	09	Enter
0000000200	10	Power
0000000400	11	SourceSearch
0000000800	12	
0000001000	13	
0000002000	14	
0000004000	15	
0000008000	16	
0000010000	17	
0000020000	18	
0000040000	19	
0000080000	20	Menu
0000100000	21	
0000200000	22	
0000400000	23	
0000800000	24	
0001000000	25	Up
0002000000	26	Down
0004000000	27	Left
0008000000	28	Right
0010000000	29	
0020000000	30	
0040000000	31	
0080000000	32	
0100000000	33	ESC
0200000000	34	
0400000000	35	
0800000000	36	
1000000000	37	
2000000000	38	
4000000000	39	
8000000000	40	

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EH-TW410/TW490/TW495 PL-Home Cinema 725HD/ 730HD
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby 09: A/V standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			Control: QC control position setting 01: Left-Top control 02: Right-Top control 03: Right-Bottom control 04: Left-Bottom control INIT (Setting only) direction: Direction setting 01: Move to upward 02: Move to downward 03: Move to left 04: Move to right movement: "INC" can be able sent (Setting only)
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
		CORRECTMET?	N/A	OK	OK
		Return code			01: Keystone adjustment function 02: Quick corner
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 20: 16:9 30:Auto 40: Full 50: Zoom 60: Native INIT (Setting only) <Auto> x1:Mode x2:Auto
		ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input	Selecting/Confirming input source	SOURCE xx	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	OK
		RESOL?	N/A	OK	OK
		Parameter/Return code			00:Auto F0:Wide F1:Normal INIT (Setting only)
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
		Parameter			x1:0-255 INC/DEC/INIT
		SHARP? x1	N/A	OK	OK
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	OK
		RED?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GREEN xxx	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	code	EH-TW410/TW490/TW495 PL-Home Cinema 725HD/ 730HD
Power	01	OK
Menu	03	OK
Help	04	OK
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Source		
SourceSearch	48	OK

IR	code	
Power	3B	OK
Power ON	A1	OK
Power OFF	6C	OK
Menu	3C	OK
Help	30	OK
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Page Up	68	OK
Page Down	69	OK
Auto	4A	OK
Comp1(Computer)	43	OK
SourceSearch	67	OK
Video	46	OK
Freeze	47	OK
E-Zoom+	28	OK
E-Zoom-	29	OK
A/V Mute(Blank)	3E	OK
Color Mode	3F	OK
Aspect	20	OK
Volume+	56	OK
Volume-	57	OK
Pointer	50	OK
User	84	OK
USB	85	OK
LAN	8A	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW410/TW490/TW495 PL-Home Cinema 725HD/ 730HD
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK
	11	OK (RGB)
	12	N/A
	13	N/A
	14	OK (Component)
	15	N/A
	16-1E	N/A
	1F	OK (Auto)
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	(SOURCES?)
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	OK (S-Video)
EasyMP	50	N/A
	51	OK (USB Display)
	52	OK (USB)
	53	OK (LAN)
	54	N/A
	55	N/A
	56	N/A
	57-5F	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,USB Display,USB,LAN)
	F2 (Video)	OK (HDMI,S-Video,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		GREEN?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		BLUE xxx	N/A	OK	OK
		BLUE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 0C: Living 0D: Game 15: Cinema INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		NRS?	N/A	OK	OK
		Parameter/Return code			01:Off 02: NR1 03: NR 2 INIT (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirmin	AUDIO mode [source]	N/A	OK	OK
		Parameter/Return code			mode: Setting 00: Default (USB internal connection) 01: Audio input INIT (Setting only) source: Source setting
		AUDIO? [source]	N/A	OK	OK
		Parameter/Return code			Please refer to the "AUDIO" command
	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK
		FREEZE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	OK
		CCAP?	N/A	OK	OK
		Parameter/Return code			00：OFF 11：CC1 12：CC2 INIT (Setting only)
	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
Unique function	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirmin g background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirmin g Communication Speed	SPEED xx	N/A	—	OK
		SPEED?	N/A	—	OK
		Parameter/Return code			00：9600bps 01：19200bps 02：38400bps 03：57598bps INIT (Setting only)
Environment setting	Setting/Confirming ECO display	PSDISP mode	OK	OK	OK
		PSDISP?	OK	OK	OK
		Parameter/Return code			00: OFF 01: ON
	Setting/Confirming auto source search after turning on the projector	STSEARCH mode	OK	OK	OK
		STSEARCH?	OK	OK	OK
		Parameter/Return code			00: OFF 01: ON
Information	Getting lamp	LAMP?	N/A	OK	OK
	Getting serial numbe	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK "Password " function	Network	EH-TW510
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	OK
		Parameter			control: Assign Quick Corner control position 01: Left-Top 02: Right-Top 03: Right-bottom 04: Left-bottom INIT: (Setting only) direction: Assing direction 01: move to upper 02: move to lower 03: move to left 04. move to right movement: input the movement value Only "INC" command is available. (Setting only)
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
		CORRECTMET?	N/A	OK	N/A
		Return code			01: Keystone function 02: Quick Corner
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 20: 16:9 30:Auto 40: Full 50: Zoom 60: Native INIT (Setting only) <Auto> x1:Mode x2:Auto
		ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	*1	OK	N/A
		ZOOM?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	*1	OK	N/A
		FOCUS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	*1	OK	N/A
		LENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	*1	OK	N/A
		HLENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	OK
		RESOL?	N/A	OK	OK

Keycode

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW510
Power	01	○
Standby	02	—
Menu	03	○
Help	04	○
ESC	05	○
Enter	16	○
Up	35	○
Down	36	○
Left	37	○
Right	38	○
SourceSearch	48	○

IR	Code	
Power	3B	○
Power ON	3B	—
Power ON	A1	○
Power OFF	6C	○
Menu	3C	○
Help	30	○
ESC	3D	○
Enter	49	○
Pointer: Up	58	○
Pointer: Down	59	○
Pointer: Left	5A	○
Pointer: Right	5B	○
Page Up	68	○
Page Down	69	○
Auto	4A	○
Comp1 (Computer)	43	○
SourceSearch	67	○
Video	46	○
Freeze	47	○
E-Zoom+	28	○
E-Zoom-	29	○
A/V Mute (Blank)	3E	○
Color Mode	3F	○
Aspect	20	○
Volume+	56	○
Volume-	57	○
Pointer	50	○
Screen Fit	6F	○
User	84	○
USB	85	○
LAN	8A	○
2D/3D	9D	○
2D	9E	○
3D	9F	○

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW510
INPUT1 (10 is the "INPUT1" button of remote controller)	10	○
	11	○ (RGB)
	12	—
	13	—
	14	○ (Component)
	15	—
	16-1E	—
	1F	○ (Auto)
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	○ (HDMI)
	31	(Digital-RGB)
	32	—
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	—
	3F	—
VIDEO	40	○
VIDEO(RCA)	41	○ (Video)
VIDEO(S)	42	○ (S-Video)
EasyMP	50	—
	51	○ (USB Display)
	52	○ (USB)
	53	—
	54	—
	55	—
	56-5F	—
Change cyclic	F0 (For all source)	○
	F1 (PC)	○ (PC1,USB Display, USB)
	F2 (Video)	○ (HDMI,S-Video,Video)
	F3	—
	F4	—
	F5-FF	—

		Parameter/Return code			00:Auto F0:Wide F1:Normal INIT (Setting only)
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
		Parameter			x1:0-255 INC/DEC/INIT
		SHARP? x1	N/A	OK	OK
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	OK
		RED?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GREEN xxx	N/A	OK	OK
		GREEN?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		BLUE xxx	N/A	OK	OK
		BLUE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06: Dynamic 0C: Living 0D: Game 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		NRS?	N/A	OK	OK
		Parameter/Return code			01:Off 02: NR1 03: NR 2 INIT (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	N/A
		OFFSETR?	N/A	OK	N/A
		Parameter/Return code			N/A
		OFFSETG xxx	N/A	OK	N/A
		OFFSETG?	N/A	OK	N/A
		Parameter/Return code			N/A
		OFFSETB xxx	N/A	OK	N/A
		OFFSETB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	N/A
		GAINR?	N/A	OK	N/A
		Parameter/Return code			N/A
		GAING xxx	N/A	OK	N/A
		GAING?	N/A	OK	N/A
		Parameter/Return code			N/A
		GAINB xxx	N/A	OK	N/A
		GAINB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
		GAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
		Parameter			N/A
		GAMMALV? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A N/A N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming	MULTI x1	N/A	OK	N/A

	multi screen operation	MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Confirming of the color	CSEL?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK
		FREEZE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	OK
		CCAP?	N/A	OK	OK
		Parameter/Return code			00 : OFF 11 : CC1 12 : CC2 INIT (Setting only)
	3D setting	3DIMENSION [common] [set [common] [param]]	—	OK	OK
		3DIMENSION? set	—	OK	OK
		Parameter/Return code			01: 3Ddisplay setting 00: Display off 01: Display on 03: 3D format setting 00: Auto 01: 2D 02: Side by side 03: Top and bottom 05: 3D brightness setting 01: Low 02: Middle 03: High 07: 3D Viewing notice 00 : off 01 : on INIT (Setting only)
Environment setting	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57598bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A

	message	Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	g/Confirming kind of ai	FLKIND set	N/A	OK	N/A
		FLKIND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming standby confirmation	STANDBYCONF mode	N/A	OK	N/A
		STANDBYCONF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		Parameter			N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming projection lens setting for short	SFLENS mode	N/A	OK	N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
データ保存					N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial number	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EH-R1000/R3000C	EH-R4000
Power Control	Power On	PWR ON	OK	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby	00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 04: Standby Mode (Network ON) 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A	N/A
		VKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A	N/A
		HKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A	N/A
		AUTOKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		QC?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movemen	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	N/A	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		CORRECTMET?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK	OK
		ASPECT?	N/A	OK	OK	OK
		Parameter/Return code			00：Normal 30：Auto 40：Full 50：Zoom 70：Wide 80：Anamorphic 90：H Squeeze INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)	00：Normal 30：Auto 40：Full 50：Zoom 70：Wide 80：Anamorphic 90：H Squeeze INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK	OK
		LUMINANCE?	N/A	OK	OK	OK
		Parameter/Return code			00:High 01:Low INIT (Setting only) The value that were set to each color mode is returned	00:High 01:Low INIT (Setting only) The value that were set to each color mode is returned
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A	N/A
		LUMLEVEL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	OK	OK
		ZOOM?	N/A	OK	OK	OK
		Parameter/Return code			Electrical zoom Setting value: MIN/MAX/INC/DEC/OFF Return code:VOID	Electrical zoom Setting value: MIN/MAX/INC/DEC/OFF Return code:VOID
	Setting focus value	FOCUS xxx	N/A	OK	OK	OK
		FOCUS?	N/A	OK	OK	OK
		Parameter/Return code			Electrical Focus Setting value: MIN/MAX/INC/DEC/OFF Return code:VOID	Electrical Focus Setting value: MIN/MAX/INC/DEC/OFF Return code:VOID
	Setting vertical lens shift value	LENS xxx	N/A	OK	OK	OK
		LENS?	N/A	OK	OK	OK
		Parameter/Return code			Electrical Lens Shift Setting value: INIT/MIN/MAX/INC/DEC/OFF Return code:VOID	Electrical Lens Shift Setting value: INIT/MIN/MAX/INC/DEC/OFF Return code:VOID
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	OK	OK
		HLENS?	N/A	OK	OK	OK
		Parameter/Return code			Electrical Lens Shift Setting value: INIT/MIN/MAX/INC/DEC/OFF Return code:VOID	Electrical Lens Shift Setting value: INIT/MIN/MAX/INC/DEC/OFF Return code:VOID
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK	OK
		OVSCAN?	N/A	OK	OK	OK
		Parameter/Return code			00：OFF 01：2% 02：4% 03：6% 04：8% A0：Auto INIT (Setting only)	00：OFF 01：2% 02：4% 03：6% 04：8% A0：Auto INIT (Setting only)
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A	N/A
		3DIMENSION?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A	N/A
		RESOL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK	OK
		BRIGHT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK	OK
		CONTRAST?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK	OK
		DENSITY?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK	OK
		TINT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK	OK
		Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness	x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-R1000/R3000C	EH-R4000
Power	01	OK	OK
Standby	02	N/A	N/A
Menu	03	OK	OK
Help	04	N/A	N/A
ESC	05	OK	OK
Enter	16	OK	OK
Up	35	OK	OK
Down	36	OK	OK
Left	37	OK	OK
Right	38	OK	OK
Auto	14	—	—
Source	48	OK	OK
SourceSearch	48	N/A	N/A
Comp1/2	10	—	—
Comp/EasyMP	10	—	—
Video/S-Video	11	—	—
BNC/Video	11	—	—
Computer	41	—	—
Video	42	—	—
Freeze	12	—	—
A/V Mute	15	—	—
Blank	13	—	—
A.Mute	**	—	—
Resize (Aspect)	17	N/A	N/A
Reserved	18	—	—
Color mode	19	—	—
Pattern	1A	—	—
Volume +	21	N/A	N/A
Volume -	22	N/A	N/A
Sync +	23	—	—
Sync -	24	—	—
Tracking +	25	—	—
Tracking -	26	—	—
Brightness +	31	—	—
Brightness -	32	—	—
Contrast +	33	—	—
Contrast -	34	—	—
VKeystone +	06	—	—
VKeystone -	07	—	—
HKeystone +	08	—	—
HKeystone -	09	—	—
Zoom +	39	—	—
Zoom Boot	39	—	—
Zoom -	3A	—	—
Wide	1B	—	—
Tele	1C	—	—
Focus +	0A	N/A	N/A
Focus Boot	0A	N/A	N/A
Focus -	0B	N/A	N/A
LensShift +	0C	N/A	N/A
LensShift -	0D	N/A	N/A
WallShot	6A	N/A	N/A
Quick Setup	6E	N/A	N/A
Screen Fit	6E	N/A	N/A
Lens	0E	OK	OK

IR	Code		
Power	3B	N/A	N/A
Power ON	3B	OK	OK
Power ON	A1	N/A	N/A
Power OFF	6C	OK	OK
Menu	3C	OK	OK
Help	30	N/A	N/A
ESC	3D	OK	OK
Enter	49	OK	OK
Pointer: Up	58	OK	OK
Pointer: Down	59	OK	OK
Pointer: Left	5A	OK	OK
Pointer: Right	5B	OK	OK
Pointer: Right-up	5C	N/A	N/A
Pointer: Left-up	5D	N/A	N/A
Pointer: Right-down	5E	N/A	N/A
Pointer: Left-down	5F	N/A	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-R1000/R3000C	EH-R4000
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)	OK(3RCA)
	11	N/A	N/A
	12	N/A	N/A
	13	N/A	N/A
	14	OK (YCbCr)	OK (YCbCr)
	15	OK (YPbPr)	OK (YPbPr)
	16-1E	N/A	N/A
	1F	OK (Auto)	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)	OK(Dsub15)
	21	OK (RGB)	OK (RGB)
	22	N/A	N/A
	23	N/A	N/A
	24	N/A	N/A
	25	N/A	N/A
	26-2E	N/A	N/A
	2F	N/A	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI)	OK (HDMI)
	31	(Digital-RGB)	(Digital-RGB)
	32	N/A	N/A
	33	(RGB-Video)	(RGB-Video)
	34	(YCbCr)	(YCbCr)
	35	(YPbPr)	(YPbPr)
	36-3E	N/A	N/A
	3F	N/A	N/A
VIDEO	40	OK	OK
VIDEO(RCA)	41	OK (Video)	OK (Video)
VIDEO(S)	42	OK(S-Video)	OK(S-Video)
VIDEO(YCbCr)	43	N/A	N/A
VIDEO(YPbPr)	44	N/A	N/A
VIDEO(BNC)	45	N/A	N/A
VIDEO(AUX)	46	N/A	N/A
VIDEO07	47	N/A	N/A
VIDEO08	48	N/A	N/A
VIDEO09	49	N/A	N/A
未定義	4A-4F	—	—
EasyMP	50	N/A	N/A
	51	N/A	N/A
	52	N/A	N/A
	53	N/A	N/A
	54	N/A	N/A
	55-5F	N/A	N/A
Video advanced (SDI)	60-6F	—	—
	70-7F	—	—
	80-8F	—	—
	90-9F	—	—
		—	—
		—	—
		—	—
		—	—
DisplayPort	70	—	—
	71	—	—
	72	—	—
	73	—	—
	74	—	—
	75	—	—
	76-7E	—	—
	7F	—	—
DVI/HDMI advanced	A0	OK(HDMI2)	OK(HDMI2)
	A1	OK(Digital-RGB)	OK(Digital-RGB)
	A2	N/A	N/A
	A3	OK(RGB-Video)	OK(RGB-Video)
	A4	OK(YCbCr)	OK(YCbCr)
	A5	OK(YPbPr)	OK(YPbPr)
	A6-AE	N/A	N/A
	AF	N/A	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A	N/A
	B1	N/A	N/A
	B2	N/A	N/A
	B3	N/A	N/A
	B4	N/A	N/A
	B5	N/A	N/A
	B6-BE	N/A	N/A
	BF	N/A	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A	N/A
	C1	N/A	N/A
	C2	N/A	N/A

	SHARP? x1	N/A	OK	OK	OK
	Parameter			Please refer the x2 parameter of "SHARP" command.	Please refer the x2 parameter of "SHARP" command.
	Return code			0-255	0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A	N/A
	RED?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
	GREEN xxx	N/A	OK	N/A	N/A
	GREEN?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
	BLUE xxx	N/A	OK	N/A	N/A
	BLUE?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK	OK
	CTEMP?	N/A	OK	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK	OK
	FCOLOR?	N/A	OK	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK	OK
	CMODE?	N/A	OK	OK	OK
	Parameter/Return code			06：Dynamic 07：Natural 0B：x.v.Color 0C：Living 13：THX (THX model only) 15：Cinema INIT (Setting only)	06：Dynamic 07：Natural 0B：x.v.Color 0C：Living 13：THX (THX model only) 15：Cinema INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK	OK
	HPOS?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK	OK
	VPOS?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK	OK
	TRACKIOK?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK	OK
	SYNC?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK	OK
	NRS?	N/A	OK	OK	OK
	Parameter/Return code			01：OFF 02：Setting 1 03：Setting 2 04：Setting 3 INIT (Setting only)	01：OFF 02：Setting 1 03：Setting 2 04：Setting 3 INIT (Setting only)
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK		
	MNRS?	N/A	OK		
	Parameter/Return code				
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	○	○
	BNRS?	N/A	OK	OK	OK
	Parameter/Return code			00：OFF 01：ON INIT (Setting only)	00：OFF 01：ON INIT (Setting only)
Auto noise reduction Setting	ANRS xx	N/A	OK	OK	OK
	ANRS?	N/A	OK	OK	OK
	Parameter/Return code			01：OFF 02：Setting 1 03：Setting 2 04：Setting 3 INIT (Setting only)	01：OFF 02：Setting 1 03：Setting 2 04：Setting 3 INIT (Setting only)
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK	OK
	OFFSETR?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK	OK
	OFFSETG?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK	OK
	OFFSETB?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK	OK
	GAINR?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	GAIOK xxx	N/A	OK	OK	OK
	GAIOK?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK	OK
	GAINB?	N/A	OK	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK	OK
	GAMMA?	N/A	OK	OK	OK
	Parameter/Return code			20-24：2.0-2.4 F0 ：Custam INIT (Setting only)	20-24：2.0-2.4 F0 ：Custam INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK	OK
	Parameter			x1：Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC	x1：Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC
	GAMMALV? xx	N/A	OK	OK	OK
	Parameter			Please refer the x1 parameter of "GAMMALV" command.	Please refer the x1 parameter of "GAMMALV" command.
	Return code			0-255	0-255
Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A	N/A
	Parameter			N/A	N/A
	MULSCR? xx	N/A	OK	N/A	N/A
	Parameter			N/A	N/A
	Return code			N/A	N/A
Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A	N/A
	MULTI?	N/A	OK	N/A	N/A
	Parameter/Return code			N/A	N/A
Call of memory	POPMEM x1 x2	N/A	OK	OK	OK
	Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) ： 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) ： 0A:Memory 10(No.10)
Registration of memory	PUSHMEM x1 x2	N/A	OK	OK	OK

Page Up	68	N/A	N/A
Page Down	69	N/A	N/A
1	51	N/A	N/A
IRIS	51	N/A	N/A
2	52	N/A	N/A
3	53	N/A	N/A
4	54	N/A	N/A
5	55	N/A	N/A
Volume	55	N/A	N/A
Auto	4A	N/A	N/A
InputA/InputB	6B	N/A	N/A
input A	4E	N/A	N/A
Comp1 (Computer)	43	N/A	N/A
Comp1/Comp2	43	N/A	N/A
Component	43	OK	OK
Comp/EasyMP	67	—	—
Source	67	—	—
SourceSearch	67	N/A	N/A
Comp2	44	—	—
input B	44	—	—
PC	44	OK	OK
S-Video	45	OK	OK
Video	46	OK	OK
Video1/Video2	46	N/A	N/A
BNC	40	N/A	N/A
D	40	N/A	N/A
HDMI2	40	OK	OK
S-Video/Video	4F	—	—
DVI	1D	—	—
DVI/HDMI	1D	N/A	N/A
D-RGB	4D	N/A	N/A
HDMI	4D	N/A	N/A
HDMI1	4D	OK	OK
EasyMP	1E	N/A	N/A
Freeze	47	N/A	N/A
Still	47	N/A	N/A
E-Zoom +	28	N/A	N/A
E-Zoom -	29	N/A	N/A
A/V Mute	3E	OK	OK
Color Mode	3F	OK	OK
Pattern	4B	OK	OK
Aspect	20	OK	OK
Reserved	4C	N/A	N/A
Memory	6A	N/A	N/A
Memory (1)	61	OK	OK
Memory 2	62	—	—
Memory 3	63	—	—
Memory 4	64	—	—
Memory 5	65	—	—
Memory 6	66	—	—
Preset	60	—	—
PinP	27	—	—
Focus +	2A	N/A	N/A
Focus -	2B	N/A	N/A
Focus	2B	OK	OK
LensShift +	2C	○	○
LensShift -	2D	—	—
LensShift	2D	OK	OK
Zoom +	2E	○	○
Zoom -	2F	—	—
Zoom	2F	OK	OK
Volume +	56	N/A	N/A
Volume -	57	N/A	N/A
EFFECT	50	N/A	N/A
Pointer	50	N/A	N/A
Preview	1F	N/A	N/A
WallShot	6B	N/A	N/A
0(10 Key)	70	N/A	N/A
1(10 Key)	71	N/A	N/A
2(10 Key)	72	N/A	N/A
3(10 Key)	73	N/A	N/A
4(10 Key)	74	N/A	N/A
5(10 Key)	75	N/A	N/A
6(10 Key)	76	N/A	N/A
7(10 Key)	77	N/A	N/A
8(10 Key)	78	N/A	N/A
9(10 Key)	79	N/A	N/A
. (10 Key)	7A	N/A	N/A
Source (OEM)	6D	N/A	N/A
Quick Setup	6F	N/A	N/A
Screen Fit	6F	N/A	N/A
Keystone +	7B	N/A	N/A
Keystone -	7C	N/A	N/A
Brightness	7D	N/A	N/A

	C3	N/A	N/A
	C4	N/A	N/A
	C5	N/A	N/A
	C6-CE	N/A	N/A
	CF	N/A	N/A
HDMI advanced	D0	N/A	N/A
	D1	N/A	N/A
	D2	N/A	N/A
	D3	N/A	N/A
	D4	N/A	N/A
	D5	N/A	N/A
	D6-DE	N/A	N/A
	DF	N/A	N/A
未使用	D0-DF	—	—
予約 (内部通信用に使用)	E0-EF	○	○
Change cyclic	F0 (For all source)	OK	OK
	F1 (PC)	OK (PC only)	OK (PC only)
	F2 (Video)	OK (except PC)	OK (except PC)
	F3	N/A	N/A
	F4	N/A	N/A
	F5-FF	N/A	N/A

		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) 0A:Memory 10(No.10)
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK	OK
		Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) 0A:Memory 10(No.10)	x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) 0A:Memory 10(No.10)
	Confirming of the color	CSEL?	N/A	OK	OK	OK
		Return code			07:RGB/RGBCMY	07:RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	OK (R3000C only)	OK (R3000C only)
		CGAMUT?	N/A	OK	OK (R3000C only)	OK (R3000C only)
		Parameter/Return code			01:HDTV 02:EBU 03:SMPTE-C INIT (Settig only)	01:HDTV 02:EBU 03:SMPTE-C INIT (Settig only)
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A	N/A
		ACE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK	OK
		SUPERRES?	N/A	OK	OK	OK
		Parameter/Return code			00:Setting 0 01:Setting 1 02:Setting 2 03:Setting 3 04:Setting 4 05:Setting 5 INIT (Setting only)	00:Setting 0 01:Setting 1 02:Setting 2 03:Setting 3 04:Setting 4 05:Setting 5 INIT (Setting only)
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A	N/A
		PULLDOWN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK	OK
		MCFI?	N/A	OK	OK	OK
		Parameter/Return code			00:OFF 01:Low 02:Normal 03:High INIT (Setting only)	00:OFF 01:Low 02:Normal 03:High INIT (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A	N/A
		VOL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		AUDIO?	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A	N/A
		MICLEVEL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A	N/A
		WAITMIC?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A	N/A
		PLUG-IN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A	N/A
		WAITSOUND?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A	N/A
		AUDIOOUT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Sound Mode	SOUNDMODE	N/A	OK	N/A	N/A
		SOUNDMODE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK	OK
		MUTE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)	ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A	N/A
		FREEZE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A	N/A
		CCAP?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK	OK
		HREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK	OK
		VREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)	ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK	OK
		MSEL?	N/A	OK	OK	OK
		Parameter/Return code			00: Black 01: Blue 02: User logo INIT (Setting only)	00: Black 01: Blue 02: User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK	OK (Available only via network)
		SPEED?	N/A	N/A	OK	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)	00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A	N/A
		PROJID?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A	N/A
		FLCLENOT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A	N/A
		FLCLETIM?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		DIRECTION?	N/A	OK		
		Parameter/Return code			N/A	N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A	N/A
		RCTYPE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK	OK
		ILLUM?	N/A	OK	OK	OK
		Parameter/Return code			00:OFF 01:ON INIT (Setting only)	00:OFF 01:ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	OK	OK
		Parameter			01:Memory1(No.1) 02:Memory2(No.2) 03:Memory3(No.3)	01:Memory1(No.1) 02:Memory2(No.2) 03:Memory3(No.3)
	Registration of lens position	PUSHLP xx	N/A	OK	OK	OK
		Parameter			01:Memory1(No.1) 02:Memory2(No.2) 03:Memory3(No.3)	01:Memory1(No.1) 02:Memory2(No.2) 03:Memory3(No.3)
	Deletion of lens position	ERASELP xx	N/A	OK	OK	OK
		Parameter			00: All 01:Memory1(No.1) 02:Memory2(No.2) 03:Memory3(No.3)	00: All 01:Memory1(No.1) 02:Memory2(No.2) 03:Memory3(No.3)
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A	N/A
		KREVERSE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A	OK
		Return code			N/A	*The return form follows the specification of AMX. AMXB<-SDKClass=VideoProjector> -> GUID=EPSON_EMP001><-Revision=1.0.0>
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A	OK
		AMXDDDP?	N/A	OK	N/A	OK

Brightness +	7D	N/A	N/A
Brightness -	7E	N/A	N/A
Contrast	7F	N/A	N/A
Contrast +	7F	N/A	N/A
Contrast -	80	N/A	N/A
Color Temp.	81	N/A	N/A
Flesh Tone	82	N/A	N/A
1Dγ	83	N/A	N/A
User Button	84	N/A	N/A
USB Display	85	—	—
USB	85	N/A	N/A
SlideShow	86	N/A	N/A
Sharpness	87	N/A	N/A
Default	88	OK	OK
RGBCMY	89	OK	OK
LAN	8A	N/A	N/A
LAN/USB	8A	N/A	N/A
ID	8F	N/A	N/A
ID+HELP	8F	N/A	N/A
ID+0	90	N/A	N/A
ID+1	91	N/A	N/A
ID+2	92	N/A	N/A
ID+3	93	N/A	N/A
ID+4	94	N/A	N/A
ID+5	95	N/A	N/A
ID+6	96	N/A	N/A
ID+7	97	N/A	N/A
ID+8	98	N/A	N/A
ID+9	99	N/A	N/A
Lens Iris	8B	OK	OK
Super Res	8C	OK	OK
Frame Int	8D	OK	OK
HDMI Link	8E	OK	OK
Aspect Normal	9A	OK	OK
Anamorphic	9B	OK	OK
H Squeeze	9C	OK	OK
Split	A0	N/A	N/A
2D/3D	9D	N/A	N/A
2D	9E	N/A	N/A
3D	9F	N/A	N/A
Auto Iris	A5	N/A	N/A
WirelessHD	A2	N/A	N/A
SDI	A3	N/A	N/A
ipod Control	D0	N/A	N/A
Play	D1	N/A	N/A
Backward	D6	N/A	N/A
Forward	D7	N/A	N/A

無押下時	無押下時
Enter	Enter
Power	Power
Source	Source
Menu	Menu
Up	Up
Down	Down
Left	Left
Right	Right
Lens	Lens
ESC	ESC

		Parameter/Return code			N/A	00:BeaconMessage stop 01:BeaconMessage start INIT (Setting only)
Information	Getting lamp operation time	LAMP?	N/A	OK	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EH-TW8100/PL-HomeCinema5020UB/TW8510C/TW9100/PL-ProCinema6020UB/TW9510C EH-TW8100W/HomeCinema5020UBe/TW8515C/TW9100W/EH-TW9515C
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby 07: WirelessHD standby (Wireless model only)
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40: Full 50: Zoom 70: Wide INIT (Setting only) 00:Normal 30:Auto 40: Full 50: Zoom 70: Wide 80 Anamorphic 90: H squeeze INIT (Setting only) <Auto> x1:Mode x2:Auto
		ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL ?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	*1	OK	N/A
		ZOOM?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	*1	OK	N/A
		FOCUS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	*1	OK	N/A
		LENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	*1	OK	N/A
		HLENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW8100/PL-HomeCinema5020UB/TW8510C/TW9100/PL-ProCinema6020UB/TW9510C EH-TW8100W/HomeCinema5020UBe/TW8515C/TW9100W/EH-TW9515C
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/Easy MP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW8100/PL-HomeCinema5020UB/TW8510C/TW9100/PL-ProCinema6020UB/TW9510C EH-TW8100W/HomeCinema5020UBe/TW8515C/TW9100W/EH-TW9515C
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (Component(2RCA))
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub13)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
未定義	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A

	Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass 03: Gain for high and low-pass at the same time 04: Accentuation of H sharpness 05: Accentuation of V sharpness
	SHARP? x1	N/A	OK	OK
	Parameter			Refer to the 2nd parameter of "SHARP" command
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			OK
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			06: Dynamic 07: Natural 0C: Living 13: THX (Only THX model) 15: Cinema 16: Stage (Only Japan model) 17: 3D Cinema 18: 3D Dynamic 19: 3D THX (Only THX model) INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	NRS?	N/A	OK	OK
	Parameter/Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK
	GAING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK
	Parameter/Return code			20-24: 2.0-2.4 F0: Custom INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
	Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
	GAMMALV? xx	N/A	OK	OK
	Parameter			Refer to the 1st parameter of "GAMMALV" command
	Return code			OK
Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
	Parameter			N/A
	MULSCR? xx	N/A	OK	N/A
	Parameter			N/A
	Return code			N/A
Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
	MULTI?	N/A	OK	N/A
	Parameter/Return code			N/A
Call of memory	POPMEM x1 x2	N/A	OK	OK
	Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
Registration of memory	PUSHMEM x1 x2	N/A	OK	OK

1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/Easy MP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	OK
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A
Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	N/A
Volume -	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A
4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A
. (10 Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A
Brightness +	7D	N/A

	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	OK (WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
未使用	D0-DF	N/A
予約 (内部通信用に使用)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD, Component,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	OK (Without EH-TW8000, TW8500C, HomeCinema5010,)
		CGAMUT?	N/A	OK	OK
		Parameter/Return code			01: HDTV 02: EBU 03:SMPTE-C INIT (Setting only)
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK
		SUPERRES?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only)
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D setting	3DIMENSION [common] [set [common] [param]]	—	OK	OK
		3DIMENSION? set	—	OK	OK
		Parameter/Return code			01: 3Ddisplay setting 00: Display off 01: Display on 02: 2D-to-3D conversion setting 00: off 01: Low 02: Middle 03: High 03: 3D format setting 00: Auto 01: 2D 02: Side by side 03: Top and bottom 04: 3D depth setting F6-0A: -10~10 05: 3D brightness setting 01: Low 02: Middle 03: High 07: 3D Viewing notice 00 : off 01 : on 08: Diagonal screen setting 00: 60inch 01: 70inch 02: 80inch : 16: 280inch 17: 290inch 18: 300inch INIT (Setting only)
Environment setting	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)

Brightness -	7E	N/A
Contrast	7F	N/A
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User Button	84	OK
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK
Anamorphic	9B	OK
H Squeeze	9C	OK (TW9000W/TW9000/PL6100 only)
Split	A0	OK
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	OK
WirelessHD	A2	OK
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		SPEED?	N/A	—	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57598bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming kind of air filter	FLKIND set	N/A	OK	N/A
		FLKIND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby confirmation	STANDBYCONF mode	N/A	OK	N/A
		STANDBYCONF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		Parameter			N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial number	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EH-TW8000, EH-TW9000 PL-HomeCinema5010 EH-TW8500C, PL-ProCinema6010 EH-TW9500C, EH-TW8000W PL-HomeCinema5010e EH-TW9000W
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby 07: WirelessHD standby (Wireless model only)
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40: Full 50: Zoom 70: Wide INIT (Setting only) 00:Normal 30:Auto 40: Full 50: Zoom 70: Wide 80 Anamorphic 90: H squeeze INIT (Setting only) <Auto> x1:Mode x2:Auto
		ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	*1	OK	N/A
		ZOOM?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	*1	OK	N/A
		FOCUS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	*1	OK	N/A
		LENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	*1	OK	N/A
		HLENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW8000/TW8000W/ PL Home Cinema 5010/5010e EH-TW9000/TW9000W PL Pro Cinema 6010
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/Easy MP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW8000/TW8000W/ PL Home Cinema 5010/5010e EH-TW9000/TW9000W PL Pro Cinema 6010
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (Component(2RCA))
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub13)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
未定義	4A-4F	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A

Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
	Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass 03: Gain for high and low-pass at the same time 04: Accentuation of H sharpness 05: Accentuation of V sharpness
	SHARP? x1	N/A	OK	OK
	Parameter			Refer to the 2nd parameter of "SHARP" command
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			OK
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			06: Dynamic 07: Natural 0C: Living 13: THX (Only THX model) 15: Cinema 16: Stage (Only Japan model) 17: 3D Cinema 18: 3D Dynamic 19: 3D THX (Only THX model) INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	NRS?	N/A	OK	OK
	Parameter/Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK
	GAING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK
	Parameter/Return code			20-24: 2.0-2.4 F0: Custom INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
	Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
	GAMMALV? xx	N/A	OK	OK
	Parameter			Refer to the 1st parameter of "GAMMALV" command
	Return code			OK
Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
	Parameter			N/A
	MULSCR? xx	N/A	OK	N/A
	Parameter			N/A
	Return code			N/A
Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
	MULTI?	N/A	OK	N/A
	Parameter/Return code			N/A
Call of memory	POPMEM x1 x2	N/A	OK	OK
	Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10

Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/Input B	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/Easy MP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	OK
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A
Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	N/A
Volume -	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A
4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A
.(10 Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A

	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	OK (WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
未使用	D0-DF	N/A
予約 (内部通信用に使用)	E0-EF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD, Component,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	OK (Without EH-TW8000, TW8500C, HomeCinema5010)
		CGAMUT?	N/A	OK	OK
		Parameter/Return code			01: HDTV 02: EBU 03:SMPTE-C INIT (Setting only)
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK
		SUPERRES?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only)
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	OK
		MCFI?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: Low 02: Normal 03: High INIT (Setting only)
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter Return code			N/A N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D setting	3DIMENSION [common] [set [common] [param]]	—	OK	OK
		3DIMENSION? set	—	OK	OK
		Parameter/Return code			01: 3Ddisplay setting 00: Display off 01: Display on 02: 2D-to-3D conversion setting 00: off 01: Low 02: Middle 03: High 03: 3D format setting 00: Auto 01: 2D 02: Side by side 03: Top and bottom 04: 3D depth setting F6-0A: -10～10 05: 3D brightness setting 01: Low 02: Middle 03: High 07: 3D Viewing notice 00：off 01：on 08: Diagonal screen setting 00: 60inch 01: 70inch 02：80inch : 16: 280inch 17: 290inch 18: 300inch INIT (Setting only)
Environment setting	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter Return code			N/A N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK

Brightness +	7D	N/A
Brightness -	7E	N/A
Contrast	7F	N/A
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User Button	84	OK
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	OK
Frame Int	8D	OK
HDMI Link	8E	OK
Aspect Normal	9A	OK
Anamorphic	9B	OK
H Squeeze	9C	OK (TW9000W/TW9000/PL6100 only)
Split	A0	OK
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	OK
WirelessHD	A2	OK
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57598bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming kind of air filter	FLKIND set	N/A	OK	N/A
		FLKIND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby confirmation	STANDBYCONF mode	N/A	OK	N/A
		STANDBYCONF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		Parameter			N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial number	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EH-TW6100/HomeCinema3020/3020+ /TW6510C/TW5910/TW5810C EH-TW6100W/TW6515C/PL-HomeCinema3020e
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	Confirmi/OK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby 07: WirelessHD standby (Wireless model only)
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			OK
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40: Full 50: Zoom 70: Wide INIT (Setting only) <Auto> x1:Mode x2:Auto
		ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SCFORMAT mode (position)	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	*1	OK	N/A
		ZOOM?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	*1	OK	N/A
		FOCUS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	*1	OK	N/A
		LENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	*1	OK	N/A
		HLENS?	*1	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
		Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass 03: Gain for high and low-pass at the same time 04: Accentuation of H sharpness 05: Accentuation of V sharpness
		SHARP? x1	N/A	OK	OK
		Parameter			Refer to the 2nd parameter of "SHARP" command
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
		FCOLOR?	N/A	OK	OK
		Parameter/Return code			OK
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			00: Auto 06: Dynamic 07: Natural 0C: Living 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW6100/HomeCinema3020/3020+/ TW6510C/TW5910/TW5810C EH-TW6100W/TW6515C/PL-HomeCinema3020e
Power	01	○
Standby	02	—
Menu	03	○
Help	04	—
ESC	05	○
Enter	16	○
Up	35	○
Down	36	○
Left	37	○
Right	38	○
Auto	14	—
Source	48	○
SourceSearch	4B	—

IR	Code	
Power	3B	—
Power ON	3B	○
Power OFF	A1	—
Menu	3C	○
ESC	3D	○
Enter	49	○
Pointer: Up	58	○
Pointer: Down	59	○
Pointer: Left	5A	○
Pointer: Right	5B	○
Component	43	○
PC	44	○
Video	46	○
HDMI2	40	○
HDMI1	1E	○
A/V Mute (Blank)	3F	○
Color Mode	4B	○
Pattern	20	○
Aspect	4C	○
Memory (1)	62	○
Volume +	57	○
Volume -	50	○
User Button	85	○
USB	86	○
Default	89	○
RGBCMY	8A	○
Super Res	8D	○
Frame Int	8E	○
HDMI Link	9A	○
Split	9D	○
2D/3D	9E	○
2D	9F	○
3D	A5	○
Auto Iris	A2	○
WirelessHD	A3	○
3D format	AA	○

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW6100/HomeCinema3020/3020+ /TW6510C/TW5910/TW5810C EH-TW6100W/TW6515C/PL-HomeCinema3020e
INPUT1 (10 is the "INPUT1" button of remote controller)	10	○ (Component(3RCA))
	11	—
	12	—
	13	—
	14	○ (YCbCr)
	15	○ (YPbPr)
	16-1E	—
	1F	○ (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	○ (Dsub15)
	21	○ (RGB)
	22	—
	23	—
	24	—
	25	—
	26-2E	—
	2F	—
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	○ (HDMI1)
	31	(Digital-RGB)
	32	—
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	—
	3F	—
VIDEO	40	○
VIDEO(RCA)	41	○ (Video)
EasyMP	50	—
	51	—
	52	○ (USB)
	53	—
	54	—
	55	—
	56-5F	—
DVI/HDMI advanced	A0	○ (HDMI2)
	A1	(Digital-RGB)
	A2	—
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	—
	AF	—
HDMI advanced	D0	○ (WirelessHD)
	D1	(Digital-RGB)
	D2	—
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	—
	DF	—
Change cyclic	F0 (All)	○
	F1 (PC)	○ (PC,USB)
	F2 (Video)	○ (HDMI1,HDMI2,WirelessHD, Component,Video)
	F3	—
	F4	—
	F5-FF	—

		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		NRS?	N/A	OK	OK
		Parameter/Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAING xxx	N/A	OK	OK
		GAING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20-24: 2.0-2.4 F0: Custom INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Refer to the 1st parameter of "GAMMALV" command
		Return code			OK
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK
		SUPERRES?	N/A	OK	OK
		Parameter/Return code			00: Setting 0 01: Setting 1 02: Setting 2 03: Setting 3 04: Setting 4 05: Setting 5 INIT (Setting only)
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	OK
		AUDIOOUT?	N/A	OK	OK
		Parameter/Return code			OK
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF :Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D setting	3DIMENSION [common] [set [common] [param]]	—	OK	OK
		3DIMENSION? set	—	OK	OK
		Parameter/Return code			01: 3Ddisplay setting 00: Display off 01: Display on 02: 2D-to-3D conversion setting 00: off 01: Low 02: Middle 03: High 03: 3D format setting 00: Auto 01: 2D 02: Side by side 03: Top and bottom

					04: 3D depth setting F6-0A: -10～10 05: 3D brightness setting 01: Low 02: Middle 03: High 07: 3D Viewing notice 00 : off 01 : on 08: Diagonal screen setting 00: 60inch 01: 70inch 02: 80inch : 16: 280inch 17: 290inch 18: 300inch INIT (Setting only)
Environment setting	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		SPEED?	N/A	—	OK
		Parameter/Return code			00 :9600bps 01 :19200bps 02 :38400bps 03 :57598bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming kind of air filter	FLKIND set	N/A	OK	N/A
		FLKIND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby confirmation	STANDBYCONF mode	N/A	OK	N/A
		STANDBYCONF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		Parameter			N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming projection lens setting for short throw model	SFLENS mode	N/A	OK	N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial number	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EH-TW6000 PL-HomeCinema3010 PL-HomeCinema3010+ EH-TW6500C, EH-TW5900 EH-TW5800C, EH-TW6000W PL-HomeCinema3010e EH-TW6550C
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby 07: WirelessHD standby (Wireless model only)
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			OK
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40: Full 50: Zoom 70: Wide INIT (Setting only) <Auto> x1:Mode x2:Auto
		ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A
		ZOOM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A
		FOCUS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A
		LENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A
		HLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 01:2% 02:4% 03:6% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW6000 PL-HomeCinema3010 PL-HomeCinema3010+ EH-TW6500C, EH-TW5900 EH-TW5800C, EH-TW6000W PL-HomeCinema3010e EH-TW6550C
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW6000 PL-HomeCinema3010 PL-HomeCinema3010+ EH-TW6500C, EH-TW5900 EH-TW5800C, EH-TW6000W PL-HomeCinema3010e EH-TW6550C
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK (Component(3RCA))
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub14)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI0)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	N/A
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
EasyMP	50	N/A
	51	N/A
	52	OK (USB)
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A

	Parameter			x1:0-255 INC/DEC/INIT x2: Specific area 00: Standard 01: Gain for high-pass 02: Gain for low-pass 03: Gain for high and low-pass at the same time 04: Accentuation of H sharpness 05: Accentuation of V sharpness
	SHARP? x1	N/A	OK	OK
	Parameter			Refer to the 2nd parameter of "SHARP" command
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			OK
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			00: Auto 06: Dynamic 07: Natural 0C: Living 15: Cinema 17: 3D Cinema 18: 3D Dynamic INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
	TRACKING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
	NRS?	N/A	OK	OK
	Parameter/Return code			01:Off 02: Setting 1 03: Setting 2 04: Setting 3 INIT (Setting only)
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAING xxx	N/A	OK	OK
	GAING?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK
	Parameter/Return code			20-24: 2.0-2.4 F0: Custom INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
	Parameter			x1: Tone 00-08: Tone1-Tone9 x2: Adjustment value 0-255 INC/DEC
	GAMMALV? xx	N/A	OK	OK
	Parameter			Refer to the 1st parameter of "GAMMALV" command
	Return code			OK
Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
	Parameter			N/A
	MULSCR? xx	N/A	OK	N/A
	Parameter			N/A
	Return code			N/A
Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
	MULTI?	N/A	OK	N/A
	Parameter/Return code			N/A
Call of memory	POPMEM x1 x2	N/A	OK	OK
	Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
Registration of memory	PUSHMEM x1 x2	N/A	OK	OK

1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp 2	43	N/A
Component	43	OK
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	N/A
Video	46	OK
Video1/Video 2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	OK
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A
Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	OK
Volume -	57	OK
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A
4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A
_(10 Key)	7A	N/A
Source(OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A
Brightness +	7D	N/A

	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	OK (WirelessHD)
	D1	(Digital-RGB)
	D2	N/A
	D3	(RGB-Video)
	D4	(YCbCr)
	D5	(YPbPr)
	D6-DE	N/A
	DF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC,USB)
	F2 (Video)	OK (HDMI1,HDMI2,WirelessHD, Component,Video)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Parameter			x1: Kind of memory 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1: Kind of memory 01: All 02: Advanced x2: Memory No. 01: Memory 1 : 0A: Memory 10
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07: RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	OK
		PULLDOWN?	N/A	OK	OK
		Parameter/Return code			OK
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	OK
		AUDIOOUT?	N/A	OK	OK
		Parameter/Return code			OK
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D setting	3DIMENSION [common] [set [common] [param]]	—	OK	OK
		3DIMENSION? set	—	OK	OK
		Parameter/Return code			01: 3Ddisplay setting 00: Display off 01: Display on 03: 3D format setting 00: Auto 01: 2D 02: Side by side 03: Top and bottom 05: 3D brightness setting 01: Low 02: Middle 03: High 06: 3D IR Emitter setting 01: Internal emitter 02: External emitter 07: 3D Viewing notice 00 : off 01 : on INIT (Setting only)
Environment setting	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57598bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming kind of air filter	FLKIND set	N/A	OK	N/A
		FLKIND?	N/A	OK	N/A
		Parameter/Return code			N/A

Brightness -	7E	N/A
Contrast	7F	N/A
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	N/A
User Button	84	OK
USB Display	85	N/A
USB	85	OK
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	OK
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	OK
2D/3D	9D	OK
2D	9E	OK
3D	9F	OK
Auto Iris	A5	OK
WirelessHD	A2	OK
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	OK
		ILLUM?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	N/A	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Informatio n	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial number	SNO?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password" function	Network	EH-TW3600/TW3700C/ TW3200/TW3300C PL-HomeCinema 8350/8345 PL-ProCinema 9350
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A
		VKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movemen)	QCMV control direction movemen	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40:Full 50:Zoom 70:Wide INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only) The value that were set to each color mode is returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A
		ZOOM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A
		FOCUS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A
		LENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A
		HLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A
		OVSCAN?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A
		3DIMENSION?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
		Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness
		SHARP? x1	N/A	OK	OK
		Parameter			Please refer the x2 parameter of "SHARP" command. (Except 03)
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
		RED?	N/A	OK	N/A
		Parameter/Return code			N/A
		GREEN xxx	N/A	OK	N/A
		GREEN?	N/A	OK	N/A
		Parameter/Return code			N/A
		BLUE xxx	N/A	OK	N/A
		BLUE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW3600/TW3700C/ TW3200/TW3300C PL-HomeCinema 8350/8345 PL-ProCinema 9350
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/Easy MP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/Easy MP	67	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW3600/TW3700C/ TW3200/TW3300C PL-HomeCinema 8350/8345 PL-ProCinema 9350
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	OK (S-Video)
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC only)
	F2 (Video)	OK (Except PC)
	F3	N/A

		FCOLOR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			06:Dynamic 07:Natural 08:x.v.Color 0C:Living 15:Cinema INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK
		TRACKIOK?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	N/A
		NRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Auto noise reduction Setting	ANRS xx	N/A	OK	N/A
		ANRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
		OFFSETR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK
		OFFSETG?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK
		OFFSETB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAIOK xxx	N/A	OK	OK
		GAIOK?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
		GAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer the x1 parameter of "GAMMALV" command.
		Return code			0-255
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07:RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO?	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A
		PLUG-IN?	N/A	OK	—
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A

Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
Input B	44	N/A
PC	44	OK
S-Video	45	OK
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	N/A
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A
Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	N/A
Volume -	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A
4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A
-(10 Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A
Brightness +	7D	N/A
Brightness -	7E	N/A
Contrast	7F	N/A
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	OK
User Button	84	N/A
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	OK
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A

F4	N/A
F5-FF	N/A

	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Sound Mode	SOUNDMODE	N/A	OK	N/A
		SOUNDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		SPEED?	N/A	N/A	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter/Return code			N/A
		DIRECTION?	N/A	OK	
		Parameter/Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK

Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Passwor d" function	Network	Home Cinema 8700UB Pro Cinema 9700UB	EH-TW4400/TW4500 PL-HomeCinema 8500UB	EH-TW5500 PL-ProCinema 9500UB
Power Control	Power On	PWR ON	OK	OK	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05:Abnormality standby	00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05:Abnormality standby	00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05:Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A	N/A	N/A
		VKEYSTONE?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A	N/A	N/A
		HKEYSTONE?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A	N/A	N/A
		AUTOKEYSTONE?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A	N/A
		Parameter			N/A	N/A	N/A
		QC?	N/A	OK	N/A	N/A	N/A
		Return code			N/A	N/A	N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A	N/A
		Parameter			N/A	N/A	N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movemen	N/A	OK	N/A	N/A	N/A
		Parameter			N/A	N/A	N/A
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	N/A	N/A	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
		CORRECTMET?	N/A	OK	N/A	N/A	N/A
		Return code			N/A	N/A	N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK	OK	OK
		ASPECT?	N/A	OK	OK	OK	OK
		Parameter/ Return code			00:Normal 30:Auto 40:Full 50:Zoom 70:Wide 80:Anamorphic 90:HSqueeze (H420only) INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)	00:Normal 30:Auto 40:Full 50:Zoom 70:Wide INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)	00:Normal 30:Auto 40:Full 50:Zoom 70:Wide 80:Anamorphic INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK	OK	OK
		LUMINANCE?	N/A	OK	OK	OK	OK
		Parameter/ Return code			00:Normal 01:Eco INIT (Setting only) The value that were set to each color mode is returned.	00:Normal 01:Eco INIT (Setting only) The value that were set to each color mode is returned.	00:Normal 01:Eco INIT (Setting only) The value that were set to each color mode is returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A	N/A	N/A
		LUMLEVEL?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A	N/A	N/A
		ZOOM?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A	N/A	N/A
		FOCUS?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A	N/A	N/A
		LENS?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A	N/A	N/A
		HLENS?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A	N/A	N/A
		OVSCAN?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A	N/A	N/A
		3DIMENSION?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A	N/A	N/A
		RESOL?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK	OK	OK
		BRIGHT?	N/A	OK	OK	OK	OK
		Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK	OK	OK
		CONTRAST?	N/A	OK	OK	OK	OK
		Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK	OK	OK
		DENSITY?	N/A	OK	OK	OK	OK
		Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK	OK	OK
		TINT?	N/A	OK	OK	OK	OK
		Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK	OK	OK
		Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness	x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness	x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness
		SHARP? x1	N/A	OK	OK	OK	OK
		Parameter			Please refer the x2 parameter of "SHARP" command. (Except 03)	Please refer the x2 parameter of "SHARP" command. (Except 03)	Please refer the x2 parameter of "SHARP" command. (Except 03)
		Return code			0-255	0-255	0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A	N/A	N/A
		RED?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
		GREEN xxx	N/A	OK	N/A	N/A	N/A
		GREEN?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
		BLUE xxx	N/A	OK	N/A	N/A	N/A

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	Home Cinema 8700UB Pro Cinema 9700UB	EH-TW4400/TW4500 PL-HomeCinema8500UB	EH-TW5500 PL-ProCinema9500UB
Power	01	OK	OK	OK
Standby	02	N/A	N/A	N/A
Menu	03	OK	OK	OK
Help	04	N/A	N/A	N/A
ESC	05	OK	OK	OK
Enter	16	OK	OK	OK
Up	35	OK	OK	OK
Down	36	OK	OK	OK
Left	37	OK	OK	OK
Right	38	OK	OK	OK
Auto	14	N/A	N/A	N/A
Source	48	OK	OK	OK
Source/Search	48	N/A	N/A	N/A
Comp1/2	10	N/A	N/A	N/A
Comp/EasyMP	10	N/A	N/A	N/A
Video/S-Video	11	N/A	N/A	N/A
BNC/Video	11	N/A	N/A	N/A
Computer	41	N/A	N/A	N/A
Video	42	N/A	N/A	N/A
Freeze	12	N/A	N/A	N/A
A/V Mute	15	N/A	N/A	N/A
Blank	13	N/A	N/A	N/A
A.Mute	**	N/A	N/A	N/A
Resize (Aspect)	17	N/A	N/A	N/A
Reserved	18	N/A	N/A	N/A
Color mode	19	N/A	N/A	N/A
Pattern	1A	N/A	N/A	N/A
Volume +	21	N/A	N/A	N/A
Volume -	22	N/A	N/A	N/A
Sync +	23	N/A	N/A	N/A
Sync -	24	N/A	N/A	N/A
Tracking +	25	N/A	N/A	N/A
Tracking -	26	N/A	N/A	N/A
Brightness +	31	N/A	N/A	N/A
Brightness -	32	N/A	N/A	N/A
Contrast +	33	N/A	N/A	N/A
Contrast -	34	N/A	N/A	N/A
VKeystone +	06	N/A	N/A	N/A
VKeystone -	07	N/A	N/A	N/A
HKeystone +	08	N/A	N/A	N/A
HKeystone -	09	N/A	N/A	N/A
Zoom +	38	N/A	N/A	N/A
Zoom Boot	39	N/A	N/A	N/A
Zoom -	3A	N/A	N/A	N/A
Wide	1B	N/A	N/A	N/A
Tele	1C	N/A	N/A	N/A
Focus +	0A	N/A	N/A	N/A
Focus Boot	0A	N/A	N/A	N/A
Focus -	0B	N/A	N/A	N/A
LensShift +	0C	N/A	N/A	N/A
LensShift -	0D	N/A	N/A	N/A
WaitShot	6A	N/A	N/A	N/A
Quick Setup	6E	N/A	N/A	N/A
Screen Fit	6E	N/A	N/A	N/A
Lens	0E	N/A	N/A	N/A

IR	Code			
Power	3B	OK	OK	OK
Power ON	3B	N/A	N/A	N/A
Power ON	A1	N/A	N/A	N/A
Power OFF	6C	OK	OK	OK
Menu	3C	OK	OK	OK
Help	30	N/A	N/A	N/A
ESC	3D	OK	OK	OK
Enter	49	OK	OK	OK
Pointer: Up	58	OK	OK	OK
Pointer: Down	59	OK	OK	OK
Pointer: Left	5A	OK	OK	OK
Pointer: Right	5B	OK	OK	OK
Pointer: Right-up	5C	N/A	N/A	N/A
Pointer: Left-up	5D	N/A	N/A	N/A
Pointer: Right-down	5E	N/A	N/A	N/A
Pointer: Left-down	5F	N/A	N/A	N/A
Page Up	68	N/A	N/A	N/A
Page Down	69	N/A	N/A	N/A
1	51	N/A	N/A	N/A
IRIS	51	N/A	N/A	N/A
2	52	N/A	N/A	N/A
3	53	N/A	N/A	N/A
4	54	N/A	N/A	N/A
5	55	N/A	N/A	N/A
Volume	55	N/A	N/A	N/A
Auto	4A	N/A	N/A	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	Home Cinema 8700UB Pro Cinema 9700UB	EH-TW4400/TW4500 PL-HomeCinema8500UB	EH-TW5500 PL-ProCinema9500UB
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)	OK(3RCA)	OK(3RCA)
	11	N/A	N/A	N/A
	12	N/A	N/A	N/A
	13	N/A	N/A	N/A
	14	OK (YCbCr)	OK (YCbCr)	OK (YCbCr)
	15	OK (YPbPr)	OK (YPbPr)	OK (YPbPr)
	16-1E	N/A	N/A	N/A
	1F	OK (Auto)	OK (Auto)	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)	OK(Dsub15)	OK(Dsub15)
	21	OK (RGB)	OK (RGB)	OK (RGB)
	22	N/A	N/A	N/A
	23	N/A	N/A	N/A
	24	N/A	N/A	N/A
	25	N/A	N/A	N/A
	26-2E	N/A	N/A	N/A
	2F	N/A	N/A	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)	OK (HDMI1)	OK (HDMI1)
	31	(Digital-RGB)	(Digital-RGB)	(Digital-RGB)
	32	N/A	N/A	N/A
	33	(RGB-Video)	(RGB-Video)	(RGB-Video)
	34	(YCbCr)	(YCbCr)	(YCbCr)
	35	(YPbPr)	(YPbPr)	(YPbPr)
	36-3E	N/A	N/A	N/A
	3F	N/A	N/A	N/A
VIDEO	40	OK	OK	OK
VIDEO(RCA)	41	OK (Video)	OK (Video)	OK (Video)
VIDEO(S)	42	OK (S-Video)	OK (S-Video)	OK (S-Video)
VIDEO(YCbCr)	43	N/A	N/A	N/A
VIDEO(YPbPr)	44	N/A	N/A	N/A
VIDEO(BNC)	45	N/A	N/A	N/A
VIDEO(AUX)	46	N/A	N/A	N/A
VIDEO07	47	N/A	N/A	N/A
VIDEO08	48	N/A	N/A	N/A
VIDEO09	49	N/A	N/A	N/A
EasyMP	50	N/A	N/A	N/A
	51	N/A	N/A	N/A
	52	N/A	N/A	N/A
	53	N/A	N/A	N/A
	54	N/A	N/A	N/A
	55-5F	N/A	N/A	N/A
Video advanced (SDI)	60-6F	N/A	N/A	N/A
	70-7F	N/A	N/A	N/A
	80-8F	N/A	N/A	N/A
	90-9F	N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
DisplayPort	70	N/A	N/A	N/A
	71	N/A	N/A	N/A
	72	N/A	N/A	N/A
	73	N/A	N/A	N/A
	74	N/A	N/A	N/A
	75	N/A	N/A	N/A
	76-7E	N/A	N/A	N/A
	7F	N/A	N/A	N/A
DVI/HDMI advanced	A0	OK (HDMI2)	OK (HDMI2)	OK (HDMI2)
	A1	(Digital-RGB)	(Digital-RGB)	(Digital-RGB)
	A2	N/A	N/A	N/A
	A3	(RGB-Video)	(RGB-Video)	(RGB-Video)
	A4	(YCbCr)	(YCbCr)	(YCbCr)
	A5	(YPbPr)	(YPbPr)	(YPbPr)
	A6-AE	N/A	N/A	N/A
	AF	N/A	N/A	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A	N/A	N/A
	B1	N/A	N/A	N/A
	B2	N/A	N/A	N/A
	B3	N/A	N/A	N/A
	B4	N/A	N/A	N/A
	B5	N/A	N/A	N/A
	B6-BE	N/A	N/A	N/A
	BF	N/A	N/A	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A	N/A	N/A
	C1	N/A	N/A	N/A
	C2	N/A	N/A	N/A
	C3	N/A	N/A	N/A
	C4	N/A	N/A	N/A
	C5	N/A	N/A	N/A
	C6-CE	N/A	N/A	N/A
	CF	N/A	N/A	N/A
HDMI advanced	D0	N/A	N/A	N/A
	D1	N/A	N/A	N/A
	D2	N/A	N/A	N/A
	D3	N/A	N/A	N/A
	D4	N/A	N/A	N/A
	D5	N/A	N/A	N/A

	BLUE?	N/A	OK	N/A	N/A	N/A
	Parameter/ Return code			N/A	N/A	N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK	OK	OK
	CTEMP?	N/A	OK	OK	OK	OK
	Parameter/ Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK	OK	OK
	FCOLOR?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK	OK	OK
	CMODE?	N/A	OK	OK	OK	OK
	Parameter/ Return code			8700UB 05:Theatre 06:Dynamic 09:Theatre Black1 0A:Theatre Black2 0B:x.v.Color 0C:Living 13:THX INIT (Setting only) 9700UB 05:Cinema Night 06:Vivid 09:HD 0A:Silver Screen 0B:x.v.Color 0C:Cinema Day 13:THX INIT (Setting only)	05:Theatre 06:Dynamic 07:Natural 09:Theatre Black1 0A:Theatre Black2 0B:x.v.Color 0C:Living 13:THX (THX model only) INIT (Setting only)	05:Cinema Night 06:Vivid 07:Natural 09:HD 0A:Silver Screen 0B:x.v.Color 0C:Cinema Day 13:THX (THX model only) INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK	OK	OK
	HPOS?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK	OK	OK
	VPOS?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK	OK	OK
	TRACKIOK ?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK	OK	OK
	SYNC?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	N/A	N/A	N/A
	NRS?	N/A	OK	N/A	N/A	N/A
	Parameter/ Return code			N/A	N/A	N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A	N/A	N/A
	MNRS?	N/A	OK	N/A	N/A	N/A
	Parameter/ Return code			N/A	N/A	N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A	N/A	N/A
	BNRS?	N/A	OK	N/A	N/A	N/A
	Parameter/ Return code			N/A	N/A	N/A
Auto noise reduction Setting	ANRS xx	N/A	OK	N/A	N/A	N/A
	ANRS?	N/A	OK	N/A	N/A	N/A
	Parameter/ Return code			N/A	N/A	N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK	OK	OK
	OFFSETR?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK	OK	OK
	OFFSETG?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK	OK	OK
	OFFSETB?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK	OK	OK
	GAINR?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	GAIOK xxx	N/A	OK	OK	OK	OK
	GAIOK?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK	OK	OK
	GAINB?	N/A	OK	OK	OK	OK
	Parameter/ Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK	OK	OK
	GAMMA?	N/A	OK	OK	OK	OK
	Parameter/ Return code			20-24:2.0-2.4 F0 :Custom INIT (Setting only)	20-24:2.0-2.4 F0 :Custom INIT (Setting only)	20-24:2.0-2.4 F0 :Custom INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK	OK	OK
	Parameter			x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC	x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC	x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC
	GAMMALV ? xx	N/A	OK	OK	OK	OK
	Parameter			Please refer the x1 parameter of "GAMMALV" command.	Please refer the x1 parameter of "GAMMALV" command.	Please refer the x1 parameter of "GAMMALV" command.
	Return code			0-255	0-255	0-255
Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A	N/A	N/A
	Parameter			N/A	N/A	N/A
	MULSCR? xx	N/A	OK	N/A	N/A	N/A
	Parameter			N/A	N/A	N/A
	Return code			N/A	N/A	N/A
Setting/Confirming mulit screen operation	MULTI x1	N/A	OK	N/A	N/A	N/A
	MULTI?	N/A	OK	N/A	N/A	N/A
	Parameter/ Return code			N/A	N/A	N/A
Call of memory	POPMEM x1 x2	N/A	OK	OK	OK	OK
	Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
Registration of memory	PUSHMEM x1 x2	N/A	OK	OK	OK	OK
	Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK	OK	OK
	Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
Confirming of the color	CSEL?	N/A	OK	OK	OK	OK
	Return code			07:RGB/RGBCMY	07:RGB/RGBCMY	07:RGB/RGBCMY
Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	OK	N/A	OK
	CGAMUT?	N/A	OK	OK	N/A	OK
	Parameter/ Return code			01:HDTV 02:EBU 03:SMPTE-C INIT (Setting only)	N/A	01:HDTV 02:EBU 03:SMPTE-C INIT (Setting only)
Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	OK	OK	OK
	ACE?	N/A	OK	OK	OK	OK

InputA/InputB	6B	N/A	N/A	N/A
input A	4E	N/A	N/A	N/A
Comp1 (Computer)	43	N/A	N/A	N/A
Comp1/Comp2	43	N/A	N/A	N/A
Component	43	OK	OK	OK
Comp/EasyMP	67	N/A	N/A	N/A
Source	67	N/A	N/A	N/A
SourceSearch	67	N/A	N/A	N/A
Comp2	44	N/A	N/A	N/A
input B	44	N/A	N/A	N/A
PC	44	OK	OK	OK
S-Video	45	OK	OK	OK
Video	46	OK	OK	OK
Video1/Video2	46	N/A	N/A	N/A
BNC	40	N/A	N/A	N/A
D	40	N/A	N/A	N/A
HDMI2	40	OK	OK	OK
S-Video/Video	4F	N/A	N/A	N/A
DVI	1D	N/A	N/A	N/A
DVI/HDMI	1D	N/A	N/A	N/A
D-RGB	4D	N/A	N/A	N/A
HDMII	4D	N/A	N/A	N/A
HDMI1	4D	OK	OK	OK
EasyMP	1E	N/A	N/A	N/A
Freeze	47	N/A	N/A	N/A
Still	47	N/A	N/A	N/A
E-Zoom +	28	N/A	N/A	N/A
E-Zoom -	29	N/A	N/A	N/A
A/V Mute	3E	OK	OK	OK
Color Mode	3F	OK	OK	OK
Pattern	4B	OK	OK	OK
Aspect	20	OK	OK	OK
Reserved	4C	N/A	N/A	N/A
Memory	6A	N/A	N/A	N/A
Memory (1)	61	OK	OK	OK
Memory 2	62	N/A	N/A	N/A
Memory 3	63	N/A	N/A	N/A
Memory 4	64	N/A	N/A	N/A
Memory 5	65	N/A	N/A	N/A
Memory 6	66	N/A	N/A	N/A
Preset	60	N/A	N/A	N/A
PinP	27	N/A	N/A	N/A
Focus +	2A	N/A	N/A	N/A
Focus -	2B	N/A	N/A	N/A
Focus	2B	N/A	N/A	N/A
LensShift +	2C	N/A	N/A	N/A
LensShift -	2D	N/A	N/A	N/A
LensShift	2D	N/A	N/A	N/A
Zoom +	2E	N/A	N/A	N/A
Zoom -	2F	N/A	N/A	N/A
Zoom	2F	N/A	N/A	N/A
Volume +	56	N/A	N/A	N/A
Volume -	57	N/A	N/A	N/A
EFFECT	50	N/A	N/A	N/A
Pointer	50	N/A	N/A	N/A
Preview	1F	N/A	N/A	N/A
WallShot	6B	N/A	N/A	N/A
0(10 Key)	70	N/A	N/A	N/A
1(10 Key)	71	N/A	N/A	N/A
2(10 Key)	72	N/A	N/A	N/A
3(10 Key)	73	N/A	N/A	N/A
4(10 Key)	74	N/A	N/A	N/A
5(10 Key)	75	N/A	N/A	N/A
6(10 Key)	76	N/A	N/A	N/A
7(10 Key)	77	N/A	N/A	N/A
8(10 Key)	78	N/A	N/A	N/A
9(10 Key)	79	N/A	N/A	N/A
(10 Key)	7A	N/A	N/A	N/A
Source (OEM)	6D	N/A	N/A	N/A
Quick Setup	6F	N/A	N/A	N/A
Screen Fit	6F	N/A	N/A	N/A
Keystone +	7B	N/A	N/A	N/A
Keystone -	7C	N/A	N/A	N/A
Brightness	7D	N/A	N/A	N/A
Brightness +	7D	N/A	N/A	N/A
Brightness -	7E	N/A	N/A	N/A
Contrast	7F	N/A	N/A	N/A
Contrast +	7F	N/A	N/A	N/A
Contrast -	80	N/A	N/A	N/A
Color Temp.	81	N/A	N/A	N/A
Flash Tone	82	N/A	N/A	N/A
1Dy	83	OK	OK	OK
User Button	84	N/A	N/A	N/A
USB Display	85	N/A	N/A	N/A

	D6-DE	N/A	N/A	N/A
	DF	N/A	N/A	N/A
Change cyclic	F0 (For all source)	OK	OK	OK
	F1 (PC)	OK (PC only)	OK (PC only)	OK (PC only)
	F2 (Video)	OK (Except PC)	OK (Except PC)	OK (Except PC)
	F3	N/A	N/A	N/A
	F4	N/A	N/A	N/A
	F5-FF	N/A	N/A	N/A

		Parameter/ Return code			00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)	00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)	00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	OK	OK	OK
		SUPERRES ?	N/A	OK	OK	OK	OK
		Parameter/ Return code			00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)	00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)	00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOW N x1	N/A	OK	OK	OK	OK
		PULLDOW N?	N/A	OK	OK	OK	OK
		Parameter/ Return code			4-4Pull down Setting 00:Off 01:On INIT (Setting only)	4-4Pull down Setting 00:Off 01:On INIT (Setting only)	4-4Pull down Setting 00:Off 01:On INIT (Setting only)
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A	N/A	N/A
		MCFI?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A	N/A	N/A
		VOL?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
		AUDIO?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A	N/A	N/A
		MICLEVEL?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A	N/A	N/A
		WAITMIC?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A	N/A	N/A
		PLUG-IN?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming standby mode audio status	WAITSOUN D mode	N/A	OK	N/A	N/A	N/A
		WAITSOUN D?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A	N/A	N/A
		AUDIOOUT ?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming Sound Mode	SOUNDMO DE	N/A	OK	N/A	N/A	N/A
		SOUNDMO DE?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK	OK	OK
		MUTE?	N/A	OK	OK	OK	OK
		Parameter/ Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)	ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)	ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A	N/A	N/A
		FREEZE?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A	N/A	N/A
		CCAP?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK	OK	OK
		HREVERSE ?	N/A	OK	OK	OK	OK
		Parameter/ Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK	OK	OK
		VREVERSE ?	N/A	OK	OK	OK	OK
		Parameter/ Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)	ON :Flip vertical OFF: Normal position INIT (Setting only)	ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK	OK	OK
		MSEL?	N/A	OK	OK	OK	OK
		Parameter/ Return code			00:Black 01:Blue 02:User logo INIT (Setting only)	00:Black 01:Blue 02:User logo INIT (Setting only)	00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK	OK	OK
		SPEED?	N/A	N/A	OK	OK	OK
		Parameter/ Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)	00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)	00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A	N/A	N/A
		PROJID?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A	N/A	N/A
		FLCLENOT ?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A	N/A	N/A
		FLCLETIM?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
		DIRECTION ?	N/A	OK			
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A	N/A	N/A
		RCTYPE?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A	N/A	N/A
		ILLUM?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
	Call of lens position	POFLP xx	N/A	OK	N/A	N/A	N/A
		Parameter			N/A	N/A	N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A	N/A	N/A
		Parameter			N/A	N/A	N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A	N/A	N/A
		Parameter			N/A	N/A	N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A	N/A	N/A
		KREVERSE ?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A	N/A	N/A
		Return code			N/A	N/A	N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A	N/A	N/A
		AMXDDDP ?	N/A	OK	N/A	N/A	N/A
		Parameter/ Return code			N/A	N/A	N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK	OK	OK

USB	85	N/A	N/A	N/A
SlideShow	86	N/A	N/A	N/A
Sharpness	87	OK	OK	OK
Default	88	OK	OK	OK
RGBCMY	89	OK	OK	OK
LAN	8A	N/A	N/A	N/A
LAN/USB	8A	N/A	N/A	N/A
ID	8F	N/A	N/A	N/A
ID+HELP	8F	N/A	N/A	N/A
ID+0	90	N/A	N/A	N/A
ID+1	91	N/A	N/A	N/A
ID+2	92	N/A	N/A	N/A
ID+3	93	N/A	N/A	N/A
ID+4	94	N/A	N/A	N/A
ID+5	95	N/A	N/A	N/A
ID+6	96	N/A	N/A	N/A
ID+7	97	N/A	N/A	N/A
ID+8	98	N/A	N/A	N/A
ID+9	99	N/A	N/A	N/A
Lens Iris	8B	N/A	N/A	N/A
Super Res	8C	N/A	N/A	N/A
Frame Int	8D	N/A	N/A	N/A
HDMI Link	8E	N/A	N/A	N/A
Aspect Normal	9A	OK	N/A	N/A
Anamorphic	9B	OK	N/A	N/A
H Squeeze	9C	OK (only PC9700)	N/A	N/A
Split	A0	N/A	N/A	N/A
2D/3D	9D	N/A	N/A	N/A
2D	9E	N/A	N/A	N/A
3D	9F	N/A	N/A	N/A
Auto Iris	A5	N/A	N/A	N/A
WirelessHD	A2	N/A	N/A	N/A
SDI	A3			
ipod Control	D0	N/A	N/A	N/A
Play	D1	N/A	N/A	N/A
Backward	D6	N/A	N/A	N/A
Forward	D7	N/A	N/A	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password" function	Network	EH-TW2900/TW3500 PL-HomeCinema 8100 PL-ProCinema 9100
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A
		VKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates	QCMV control direction movemen	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40:Full 50:Zoom 70:Wide INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only) The value that were set to each color mode is returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A
		ZOOM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A
		FOCUS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A
		LENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A
		HLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A
		OVSCAN?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A
		3DIMENSION?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW2900/TW3500 PL-HomeCinema 8100 PL-ProCinema 9100
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW2900/TW3500 PL-HomeCinema 8100 PL-ProCinema 9100
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	—
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK (Video)
VIDEO(S)	42	OK (S-Video)
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	—
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A

	TINT?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
	Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness
	SHARP? x1	N/A	OK	OK
	Parameter			Please refer the x2 parameter of "SHARP" command. (Except 03)
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			05:Theatre 06:Dynamic 07:Natural 09:Theatre Black1 0A:Theatre Black2 0B:x.v.Color 0C:Living INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK
	TRACKIOK?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	N/A
	NRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming mosquito noise reduction	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Auto noise reduction Setting	ANRS xx	N/A	OK	N/A
	ANRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAIOK xxx	N/A	OK	OK
	GAIOK?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK

Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1 (Computer...)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	OK
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	OK
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A
Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	N/A

INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC only)
	F2 (Video)	OK (Except PC)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
		GAMMA?	N/A	OK	OK
		Parameter/Return code			20-24:2.0-2.4 F0 :Custom INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
		Parameter			x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK
		Parameter			Please refer the x1 parameter of "GAMMALV" command.
		Return code			0-255
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07:RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	OK
		PULLDOWN?	N/A	OK	OK
		Parameter/Return code			2-2Pull down Setting 00:Off 01:On INIT (Setting only)
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO?	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A
		PLUG-IN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Sound Mode	SOUNDMODE	N/A	OK	N/A
		SOUNDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A

Volume -	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A
4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A
. (10 Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A
Brightness +	7D	N/A
Brightness -	7E	N/A
Contrast	7F	N/A
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	OK
User Button	84	N/A
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	OK
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		SPEED?	N/A	N/A	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter/Return code			N/A
		DIRECTION?	N/A	OK	
		Parameter/Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password" function	Network	EH-TW4000 PL-HomeCinema 6500UB	EH-TW5000 PL-ProCinema 7500UB
Power Control	Power On	PWR ON	OK	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK	OK
	Confirm/OK power status	PWR?	OK	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby	00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A	N/A
		VKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A	N/A
		HKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A	N/A
		AUTOKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		QC?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movemen	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting H-Keystone adjuster	SLIDEKEYSTONE xxx	N/A	OK	N/A	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		CORRECTMET?	N/A	OK	N/A	N/A
		Return code			N/A	N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK	OK
		ASPECT?	N/A	OK	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40:Full 50:Zoom 70:Wide INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)	00:Normal 30:Auto 40:Full 50:Zoom 70:Wide 80:Anamorphic INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK	OK
		LUMINANCE?	N/A	OK	OK	OK
		Parameter/Return code			00:High 01:Low INIT (Setting only) The value that were set to each color mode is returned.	00:High 01:Low INIT (Setting only) The value that were set to each color mode is returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A	N/A
		LUMLEVEL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A	N/A
		ZOOM?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A	N/A
		FOCUS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A	N/A
		LENS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A	N/A
		HLENS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A	N/A
		OVSCAN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A	N/A
		3DIMENSION?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A	N/A
		RESOL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK	OK
		BRIGHT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK	OK
		CONTRAST?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK	OK
		DENSITY?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK	OK
		TINT?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK	OK
		Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness	x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness
		SHARP? x1	N/A	OK	OK	OK
		Parameter			Please refer the x2 parameter of "SHARP" command. (Except 03)	Please refer the x2 parameter of "SHARP" command. (Except 03)
		Return code			0-255	0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A	N/A
		RED?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		GREEN xxx	N/A	OK	N/A	N/A
		GREEN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		BLUE xxx	N/A	OK	N/A	N/A
		BLUE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK	OK
		CTEMP?	N/A	OK	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)	Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK	OK
		FCOLOR?	N/A	OK	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW4000 PL-HomeCinema 6500UB	EH-TW5000 PL-ProCinema 7500UB
Power	01	OK	OK
Standby	02	N/A	N/A
Menu	03	OK	OK
Help	04	N/A	N/A
ESC	05	OK	OK
Enter	16	OK	OK
Up	35	OK	OK
Down	36	OK	OK
Left	37	OK	OK
Right	38	OK	OK
Auto	14	N/A	N/A
Source	48	OK	OK
SourceSearch	48	N/A	N/A
Comp1/2	10	N/A	N/A
Comp/EasyMP	10	N/A	N/A
Video/S-Video	11	N/A	N/A
BNC/Video	11	N/A	N/A
Computer	41	N/A	N/A
Video	42	N/A	N/A
Freeze	12	N/A	N/A
A/V Mute	15	N/A	N/A
Blank	13	N/A	N/A
A.Mute	**	N/A	N/A
Resize (Aspect)	17	N/A	N/A
Reserved	18	N/A	N/A
Color mode	19	N/A	N/A
Pattern	1A	N/A	N/A
Volume +	21	N/A	N/A
Volume -	22	N/A	N/A
Sync ＋	23	N/A	N/A
Sync -	24	N/A	N/A
Tracking +	25	N/A	N/A
Tracking -	26	N/A	N/A
Brightness +	31	N/A	N/A
Brightness -	32	N/A	N/A
Contrast +	33	N/A	N/A
Contrast -	34	N/A	N/A
VKeystone +	06	N/A	N/A
VKeystone -	07	N/A	N/A
HKeystone +	08	N/A	N/A
HKeystone -	09	N/A	N/A
Zoom +	39	N/A	N/A
Zoom Boot	39	N/A	N/A
Zoom -	3A	N/A	N/A
Wide	1B	N/A	N/A
Tele	1C	N/A	N/A
Focus +	0A	N/A	N/A
Focus Boot	0A	N/A	N/A
Focus -	0B	N/A	N/A
LensShift +	0C	N/A	N/A
LensShift -	0D	N/A	N/A
WallShot	6A	N/A	N/A
Quick Setup	6E	N/A	N/A
Screen Fit	6E	N/A	N/A
Lens	0E	N/A	N/A

IR	Code		
Power	3B	OK	OK
Power ON	3B	N/A	N/A
Power ON	A1	N/A	N/A
Power OFF	6C	OK	OK
Menu	3C	OK	OK
Help	30	N/A	N/A
ESC	3D	OK	OK
Enter	49	OK	OK
Pointer: Up	58	OK	OK
Pointer: Down	59	OK	OK
Pointer: Left	5A	OK	OK
Pointer: Right	5B	OK	OK
Pointer: Right-up	5C	N/A	N/A
Pointer: Left-up	5D	N/A	N/A
Pointer: Right-down	5E	N/A	N/A
Pointer: Left-down	5F	N/A	N/A
Page Up	68	N/A	N/A
Page Down	69	N/A	N/A
1	51	N/A	N/A
IRIS	51	N/A	N/A
2	52	N/A	N/A
3	53	N/A	N/A
4	54	N/A	N/A
5	55	N/A	N/A
Volume	55	N/A	N/A
Auto	4A	N/A	N/A
Input4/InputB	6B	N/A	N/A
input A	4E	N/A	N/A
Comp1 (Computer)	43	N/A	N/A
Comp1/Comp2	43	N/A	N/A
Component	43	OK	OK
Comp/EasyMP	67	N/A	N/A
Source	67	N/A	N/A
SourceSearch	67	N/A	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW4000 PL-HC 6500UB	EH-TW5000 PL-ProCinema 7500UB
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)	OK(3RCA)
	11	N/A	N/A
	12	N/A	N/A
	13	N/A	N/A
	14	OK (YCbCr)	OK (YCbCr)
	15	OK (YPbPr)	OK (YPbPr)
	16-1E	N/A	N/A
	1F	OK (Auto)	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)	OK(Dsub15)
	21	OK (RGB)	OK (RGB)
	22	N/A	N/A
	23	N/A	N/A
	24	N/A	N/A
	25	N/A	N/A
	26-2E	N/A	N/A
	2F	N/A	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)	OK (HDMI1)
	31	(Digital-RGB)	(Digital-RGB)
	32	N/A	N/A
	33	(RGB-Video)	(RGB-Video)
	34	(YCbCr)	(YCbCr)
	35	(YPbPr)	(YPbPr)
	36-3E	N/A	N/A
	3F	N/A	N/A
VIDEO	40	OK	OK
VIDEO (RCA)	41	OK (Video)	OK (Video)
VIDEO(S)	42	OK (S-Video)	OK (S-Video)
VIDEO (YCbCr)	43	N/A	N/A
VIDEO (YPbPr)	44	N/A	N/A
VIDEO (BNC)	45	N/A	N/A
VIDEO (AUX)	46	N/A	N/A
VIDEO07	47	N/A	N/A
VIDEO08	48	N/A	N/A
VIDEO09	49	N/A	N/A
EasyMP	50	N/A	N/A
	51	N/A	N/A
	52	N/A	N/A
	53	N/A	N/A
	54	N/A	N/A
	55-5F	N/A	N/A
Video advanced (SDI)	60-6F	N/A	N/A
	70-7F	N/A	N/A
	80-8F	N/A	N/A
	90-9F	N/A	N/A
		N/A	N/A
		N/A	N/A
DisplayPort	70	N/A	N/A
	71	N/A	N/A
	72	N/A	N/A
	73	N/A	N/A
	74	N/A	N/A
	75	N/A	N/A
	76-7E	N/A	N/A
	7F	N/A	N/A
DVI/HDMI advanced	A0	OK (HDMI2)	OK (HDMI2)
	A1	(Digital-RGB)	(Digital-RGB)
	A2	N/A	N/A
	A3	(RGB-Video)	(RGB-Video)
	A4	(YCbCr)	(YCbCr)
	A5	(YPbPr)	(YPbPr)
	A6-AE	N/A	N/A
	AF	N/A	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A	N/A
	B1	N/A	N/A
	B2	N/A	N/A
	B3	N/A	N/A
	B4	N/A	N/A
	B5	N/A	N/A
	B6-BE	N/A	N/A
	BF	N/A	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A	N/A
	C1	N/A	N/A
	C2	N/A	N/A
	C3	N/A	N/A
	C4	N/A	N/A
	C5	N/A	N/A
	C6-CE	N/A	N/A
	CF	N/A	N/A
HDMI advanced	D0	N/A	N/A
	D1	N/A	N/A
	D2	N/A	N/A
	D3	N/A	N/A
	D4	N/A	N/A
	D5	N/A	N/A
	D6-DE	N/A	N/A
	DF	N/A	N/A
Change cyclic	F0 (For all source)	OK	OK
	F1 (PC)	OK (PC only)	OK (PC only)
	F2 (Video)	OK (Except PC)	OK (Except PC)
	F3	N/A	N/A
	F4	N/A	N/A

		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK	OK
		CMODE?	N/A	OK	OK	OK
		Parameter/Return code			05:Theatre 06:Dynamic 07:Natural 09:Theatre Black1 0A:Theatre Black2 0B:x.v.Color 0C:Living INIT (Setting only)	05:Cinema Night 06:Vivid 07:Natural 09:HD 0A:Silver Screen 0B:x.v.Color 0C:Cinema Day INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK	OK
		HPOS?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK	OK
		VPOS?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK	OK
		TRACKIOK?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK	OK
		SYNC?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	N/A	N/A
		NRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A	N/A
		MNRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A	N/A
		BNRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Auto noise reduction Setting	ANRS xx	N/A	OK	N/A	N/A
		ANRS?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK	OK
		OFFSETR?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		OFFSETG xxx	N/A	OK	OK	OK
		OFFSETG?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		OFFSETB xxx	N/A	OK	OK	OK
		OFFSETB?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK	OK
		GAINR?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		GAIOK xxx	N/A	OK	OK	OK
		GAIOK?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK	OK
		GAINB?	N/A	OK	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)	0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK	OK
		GAMMA?	N/A	OK	OK	OK
		Parameter/Return code			20-24:2.0-2.4 F0 :Custom INIT (Setting only)	20-24:2.0-2.4 F0 :Custom INIT (Setting only)
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK	OK
		Parameter			x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC	x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC
		GAMMALV? xx	N/A	OK	OK	OK
		Parameter			Please refer the x1 parameter of "GAMMALV" command.	Please refer the x1 parameter of "GAMMALV" command.
		Return code			0-255	0-255
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		MULSCR? xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A	N/A
		MULTI?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK	OK
		Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)	x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Confirming of the color	CSEL?	N/A	OK	OK	OK
		Return code			07:RGB/RGBCMY	07:RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A	OK
		CGAMUT?	N/A	OK	N/A	OK
		Parameter/Return code			N/A	01:HDTV 02:EBU 03:SMPTE-C INIT (Setting only)
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	OK	OK
		ACE?	N/A	OK	OK	OK
		Parameter/Return code			00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)	00:Off 01:Setting 1 02:Setting 2 03:Setting 3 INIT (Setting only)
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A	N/A
		SUPERRES?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A	N/A
		PULLDOWN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A	N/A
		MCFI?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A	N/A
		VOL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		AUDIO?	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A	N/A
		MICLEVEL?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A	N/A
		WAITMIC?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A	N/A
		PLUG-IN?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A

Comp2	44	N/A	N/A
Input B	44	N/A	N/A
PC	44	OK	OK
S-Video	45	OK	OK
Video	46	OK	OK
Video1/Video2	46	N/A	N/A
BNC	40	N/A	N/A
D	40	N/A	N/A
HDMI2	40	OK	OK
S-Video/Video	4F	N/A	N/A
DVI	1D	N/A	N/A
DVI/HDMI	1D	N/A	N/A
D-RGB	4D	N/A	N/A
HDMI	4D	N/A	N/A
HDMI1	4D	OK	OK
EasyMP	1E	N/A	N/A
Freeze	47	N/A	N/A
Still	47	N/A	N/A
E-Zoom +	28	N/A	N/A
E-Zoom -	29	N/A	N/A
A/V Mute	3E	OK	OK
Color Mode	3F	OK	OK
Pattern	4B	OK	OK
Aspect	20	OK	OK
Reserved	4C	N/A	N/A
Memory	6A	N/A	N/A
Memory (1)	61	OK	OK
Memory 2	62	N/A	N/A
Memory 3	63	N/A	N/A
Memory 4	64	N/A	N/A
Memory 5	65	N/A	N/A
Memory 6	66	N/A	N/A
Preset	60	N/A	N/A
PinP	27	N/A	N/A
Focus +	2A	N/A	N/A
Focus -	2B	N/A	N/A
Focus	2B	N/A	N/A
LensShift +	2C	N/A	N/A
LensShift -	2D	N/A	N/A
LensShift	2D	N/A	N/A
Zoom +	2E	N/A	N/A
Zoom -	2F	N/A	N/A
Zoom	2F	N/A	N/A
Volume +	56	N/A	N/A
Volume -	57	N/A	N/A
EFFECT	50	N/A	N/A
Pointer	50	N/A	N/A
Preview	1F	N/A	N/A
WallShot	6B	N/A	N/A
0(10 Key)	70	N/A	N/A
1(10 Key)	71	N/A	N/A
2(10 Key)	72	N/A	N/A
3(10 Key)	73	N/A	N/A
4(10 Key)	74	N/A	N/A
5(10 Key)	75	N/A	N/A
6(10 Key)	76	N/A	N/A
7(10 Key)	77	N/A	N/A
8(10 Key)	78	N/A	N/A
9(10 Key)	79	N/A	N/A
. (10 Key)	7A	N/A	N/A
Source (OEM)	6D	N/A	N/A
Quick Setup	6F	N/A	N/A
Screen Fit	6F	N/A	N/A
Keystone +	7B	N/A	N/A
Keystone -	7C	N/A	N/A
Brightness	7D	N/A	N/A
Brightness +	7D	N/A	N/A
Brightness -	7E	N/A	N/A
Contrast	7F	N/A	N/A
Contrast +	7F	N/A	N/A
Contrast -	80	N/A	N/A
Color Temp.	81	N/A	N/A
Flesh Tone	82	N/A	N/A
1Dy	83	OK	OK
User Button	84	N/A	N/A
USB Display	85	N/A	N/A
USB	85	N/A	N/A
SlideShow	86	N/A	N/A
Sharpness	87	OK	OK
Default	88	OK	OK
RGBCMY	89	OK	OK
LAN	8A	N/A	N/A
LAN/USB	8A	N/A	N/A
ID	8F	N/A	N/A
ID+HELP	8F	N/A	N/A
ID+0	90	N/A	N/A
ID+1	91	N/A	N/A
ID+2	92	N/A	N/A
ID+3	93	N/A	N/A
ID+4	94	N/A	N/A
ID+5	95	N/A	N/A
ID+6	96	N/A	N/A
ID+7	97	N/A	N/A
ID+8	98	N/A	N/A
ID+9	99	N/A	N/A
Lens Iris	8B	N/A	N/A
Super Res	8C	N/A	N/A
Frame Int	8D	N/A	N/A
HDMI Link	8E	N/A	N/A
Aspect Normal	9A	N/A	N/A
Anamorphic	9B	N/A	N/A
H Squeeze	9C	N/A	N/A
Split	A0	N/A	N/A
2D/3D	9D	N/A	N/A

F5-FF	N/A	N/A

	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A	N/A
		WAITSOUND?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A	N/A
		AUDIOOUT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Sound Mode	SOUNDMODE	N/A	OK	N/A	N/A
		SOUNDMODE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK	OK
		MUTE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)	ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A	N/A
		FREEZE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A	N/A
		CCAP?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK	OK
		HREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)	ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK	OK
		VREVERSE?	N/A	OK	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)	ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK	OK
		MSEL?	N/A	OK	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)	00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK	OK
		SPEED?	N/A	N/A	OK	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)	00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A	N/A
		PROJID?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A	N/A
		FLCLENOT?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A	N/A
		FLCLETIM?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
		DIRECTION?	N/A	OK		
		Parameter/Return code			N/A	N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A	N/A
		RCTYPE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A	N/A
		ILLUM?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
	Call of lens position	POPLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A	N/A
		Parameter			N/A	N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A	N/A
		KREVERSE?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A	N/A
		Return code			N/A	N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A	N/A
		AMXDDDP?	N/A	OK	N/A	N/A
		Parameter/Return code			N/A	N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK	OK

2D	9E	N/A	N/A
3D	9F	N/A	N/A
Auto Iris	A5	N/A	N/A
WirelessHD	A2	N/A	N/A
SDI	A3		
ipod Control	D0	N/A	N/A
Play	D1	N/A	N/A
Backward	D6	N/A	N/A
Forward	D7	N/A	N/A

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Passwor d" function	Network	EH-TW2800/TW3000/TW3800 PL-HomeCinema 6100/7100
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A
		VKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movemen	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 30:Auto 40:Full 50:Zoom 70:Wide INIT (Setting only) <Auto> x1:Mode x2:The parameter of "Auto" command (Fixed to 30)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:High 01:Low INIT (Setting only) The value that were set to each color mode is returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A
		ZOOM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A
		FOCUS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A
		LENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A
		HLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A
		OVSCAN?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A
		3DIMENSION?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW2800/TW3000/TW3800 PL-HomeCinema 6100/7100
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	N/A
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	OK
Power ON	3B	N/A
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW2800/TW3000/TW3800 PL-HomeCinema 6100/7100
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)
	11	N/A
	12	N/A
	13	N/A
	14	OK (YCbCr)
	15	OK (YPbPr)
	16-1E	N/A
	1F	OK (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)
	21	OK (RGB)
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO (RCA)	41	OK (Video)
VIDEO(S)	42	OK (S-Video)
VIDEO (YCbCr)	43	N/A
VIDEO (YPbPr)	44	N/A
VIDEO (BNC)	45	N/A
VIDEO (AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A

	Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness
	SHARP? x1	N/A	OK	OK
	Parameter			Please refer the x2 parameter of "SHARP" command. (Except 03)
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			05:Theatre 06:Dynamic 07:Natural 09:Theatre Black1 0A:Theatre Black2 0B:x.v.Color 0C:Living INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK
	TRACKIOK?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	N/A
	NRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Auto noise reduction Setting	ANRS xx	N/A	OK	N/A
	ANRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAIOK xxx	N/A	OK	OK
	GAIOK?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	OK
	GAMMA?	N/A	OK	OK
	Parameter/Return code			20-24:2.0-2.4 F0 :Custom INIT (Setting only)
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	OK
	Parameter			x1:Tone 00-08:Tone1-Tone9 x2:Correction value 0-255 INC/DEC
	GAMMALV? xx	N/A	OK	OK
	Parameter			Please refer the x1 parameter of "GAMMALV" command.

Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	OK
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	OK
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	OK
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A
Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	N/A
Volume -	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A

	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC only)
	F2 (Video)	OK (Except PC)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Return code			0-255
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07:RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO?	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A
		PLUG-IN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Sound Mode	SOUNDMODE	N/A	OK	N/A
		SOUNDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		SPEED?	N/A	N/A	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A

4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A
. (10 Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A
Brightness +	7D	N/A
Brightness -	7E	N/A
Contrast	7F	N/A
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	N/A
Flesh Tone	82	N/A
1Dy	83	OK
User Button	84	N/A
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	OK
Default	88	OK
RGBCMY	89	OK
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter/Return code			N/A
		DIRECTION?	N/A	OK	
		Parameter/Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EMP-TW2000
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A
		VKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates movement)	QCMV control direction movemen	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Auto 20:Normal 21:Full(Squeeze) 22:Zoom 25:Wide(Panorama) INIT (Setting only) <Auto> x1:Mode x2:Parameter of "Auto" (Fixed 00)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:High 01:Low INIT (Setting only) The value that were set to each color mode is returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A
		ZOOM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A
		FOCUS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A
		LENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A
		HLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A
		OVSCAN?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A
		3DIMENSION?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)

Key code

OK:Available / N/A: Return "ERR")

Main key	Code	EMP-TW2000
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	OK
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync +	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EMP-TW2000
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)
	11	N/A
	12	N/A
	13	N/A
	14	YCbCr
	15	YPbPr
	16-1E	N/A
	1F	Auto
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)
	21	RGB
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK
VIDEO(S)	42	OK
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	OK (HDMI2)
	A1	(Digital-RGB)
	A2	N/A
	A3	(RGB-Video)
	A4	(YCbCr)
	A5	(YPbPr)
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A

Setting/Confirming tint value	TINT xxx	N/A	OK	OK
	TINT?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
	Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness
	SHARP? x1	N/A	OK	OK
	Parameter			Please refer the x2 parameter of "SHARP" command. (Except 03)
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			※STD/B ※Plus 05:Theatre Cinema Night 05: 06:Living Cinema Day 06: 07:Natural Natural 07: 08:Dynamic Vivid 08: 09:Theatre Black1 HD 09: 0A:Theatre Black2 Silver Screen 0A: 0B:x.v.Color Color 0B:x.v. INIT (Setting only) INIT (Setting only
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK
	TRACKIOK?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	N/A
	NRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Auto noise reduction Setting	ANRS xx	N/A	OK	N/A
	ANRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK

Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A
Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	OK
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	N/A
HDMI2	40	OK
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	N/A
HDMI1	4D	OK
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	OK
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A

	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	N/A
	C1	N/A
	C2	N/A
	C3	N/A
	C4	N/A
	C5	N/A
	C6-CE	N/A
	CF	N/A
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC only)
	F2 (Video)	OK (Except PC)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
		GAINR?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAIOK xxx	N/A	OK	OK
		GAIOK?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GAINB xxx	N/A	OK	OK
		GAINB?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
		GAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
		Parameter			N/A
		GAMMALV? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07:RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO?	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A
		PLUG-IN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Sound Mode	SOUNDMODE	N/A	OK	N/A
		SOUNDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A

Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	N/A
Volume -	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A
4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A
. (10 Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A
Brightness +	7D	N/A
Brightness -	7E	N/A
Contrast	7F	OK
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	OK
Flesh Tone	82	OK
1Dγ	83	OK
User Button	84	N/A
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		SPEED?	N/A	N/A	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter/Return code			N/A
		DIRECTION?	N/A	OK	
		Parameter/Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	Operation "Password " function	Network	EMP-TW1000
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode (Network OFF) 01: Lamp ON 02: Warmup 03: Cooldown
Main Unit Operation	Key operation	KEY xx "Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	N/A
		VKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	N/A
		HKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	N/A
		AUTOKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
		QC?	N/A	OK	N/A
		Return code			N/A
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	N/A
		Parameter			N/A
	Setting Quick Corner (Coordinates	QCMV control direction movemen	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	N/A
		SLIDEKEYSTONE?	N/A	OK	N/A
		Parameter/Return code			N/A
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Auto 20:Normal 21:Full(Squeeze) 22:Zoom 25:Wide(Panorama) INIT (Setting only) <Auto> x1:Mode x2:Parameter of "Auto" (Fixed 00)
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:High 01:Low INIT (Setting only) The value that were set to each color mode is returned.
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A
		ZOOM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A
		FOCUS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A
		LENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A
		HLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	N/A
		OVSCAN?	N/A	OK	N/A
		Parameter/Return code			N/A
	3D Display setup	3DIMENSION [common] [set [common] [param]]	N/A	OK	N/A
		3DIMENSION?	N/A	OK	N/A
		Parameter/Return code			N/A
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * About the parameter, please refer the "Source code".	N/A	OK	OK
		SOURCE? * About the return code, please refer the "Source code".	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	N/A
		RESOL?	N/A	OK	N/A
		Parameter/Return code			N/A
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK

Key code

Main key	Code	EMP-TW1000
Power	01	OK
Standby	02	N/A
Menu	03	OK
Help	04	N/A
ESC	05	OK
Enter	16	OK
Up	35	OK
Down	36	OK
Left	37	OK
Right	38	OK
Auto	14	N/A
Source	48	OK
SourceSearch	48	N/A
Comp1/2	10	N/A
Comp/EasyMP	10	N/A
Video/S-Video	11	N/A
BNC/Video	11	N/A
Computer	41	N/A
Video	42	N/A
Freeze	12	N/A
A/V Mute	15	N/A
Blank	13	N/A
A.Mute	**	N/A
Resize (Aspect)	17	OK
Reserved	18	N/A
Color mode	19	N/A
Pattern	1A	N/A
Volume +	21	N/A
Volume -	22	N/A
Sync ＋	23	N/A
Sync -	24	N/A
Tracking +	25	N/A
Tracking -	26	N/A
Brightness +	31	N/A
Brightness -	32	N/A
Contrast +	33	N/A
Contrast -	34	N/A
VKeystone +	06	N/A
VKeystone -	07	N/A
HKeystone +	08	N/A
HKeystone -	09	N/A
Zoom +	39	N/A
Zoom Boot	39	N/A
Zoom -	3A	N/A
Wide	1B	N/A
Tele	1C	N/A
Focus +	0A	N/A
Focus Boot	0A	N/A
Focus -	0B	N/A
LensShift +	0C	N/A
LensShift -	0D	N/A
WallShot	6A	N/A
Quick Setup	6E	N/A
Screen Fit	6E	N/A
Lens	0E	N/A

IR	Code	
Power	3B	N/A
Power ON	3B	OK
Power ON	A1	N/A
Power OFF	6C	OK
Menu	3C	OK
Help	30	N/A
ESC	3D	OK
Enter	49	OK
Pointer: Up	58	OK
Pointer: Down	59	OK
Pointer: Left	5A	OK
Pointer: Right	5B	OK
Pointer: Right-up	5C	N/A
Pointer: Left-up	5D	N/A
Pointer: Right-down	5E	N/A

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EMP-TW1000
INPUT1 (10 is the "INPUT1" button of remote controller)	10	OK(3RCA)
	11	N/A
	12	N/A
	13	N/A
	14	YCbCr
	15	YPbPr
	16-1E	N/A
	1F	Auto
INPUT2 (20 is the "INPUT2" button of remote controller)	20	OK(Dsub15)
	21	RGB
	22	N/A
	23	N/A
	24	N/A
	25	N/A
	26-2E	N/A
	2F	N/A
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	OK (HDMI1)
	31	(Digital-RGB)
	32	N/A
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	N/A
	3F	N/A
VIDEO	40	OK
VIDEO(RCA)	41	OK
VIDEO(S)	42	OK
VIDEO(YCbCr)	43	N/A
VIDEO(YPbPr)	44	N/A
VIDEO(BNC)	45	N/A
VIDEO(AUX)	46	N/A
VIDEO07	47	N/A
VIDEO08	48	N/A
VIDEO09	49	N/A
EasyMP	50	N/A
	51	N/A
	52	N/A
	53	N/A
	54	N/A
	55-5F	N/A
Video advanced (SDI)	60-6F	N/A
	70-7F	N/A
	80-8F	N/A
	90-9F	N/A
		N/A
		N/A
		N/A
DisplayPort	70	N/A
	71	N/A
	72	N/A
	73	N/A
	74	N/A
	75	N/A
	76-7E	N/A
	7F	N/A
DVI/HDMI advanced	A0	N/A
	A1	N/A
	A2	N/A
	A3	N/A
	A4	N/A
	A5	N/A
	A6-AE	N/A
	AF	N/A
INPUT4 (B0 is the "INPUT4" button of remote controller)	B0	N/A
	B1	N/A
	B2	N/A
	B3	N/A
	B4	N/A
	B5	N/A
	B6-BE	N/A
	BF	N/A
INPUT5 (C0 is the "INPUT5" button of remote controller)	C0	OK
	C1	N/A
	C2	N/A

	Parameter			x1:Correction value 0-255 INC/DEC/INIT x2:Specific area specification 00:Standard 01:Gain for emphasizing of high-pass 02:Gain for emphasizing of low-pass 03:Gain for emphasizing of High/Low-pass at the same time 04:Emphasize the H-Sharpness 05:Emphasize the V-Sharpness
	SHARP? x1	N/A	OK	OK
	Parameter			Please refer the x2 parameter of "SHARP" command. (Except 03)
	Return code			0-255
Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	N/A
	RED?	N/A	OK	N/A
	Parameter/Return code			N/A
	GREEN xxx	N/A	OK	N/A
	GREEN?	N/A	OK	N/A
	Parameter/Return code			N/A
	BLUE xxx	N/A	OK	N/A
	BLUE?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
	CTEMP?	N/A	OK	OK
	Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	OK
	FCOLOR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming color mode	CMODE xx	N/A	OK	OK
	CMODE?	N/A	OK	OK
	Parameter/Return code			※STD/B ※Plus 05:Theatre 05:Cinema Night 06:Living 06:Cinema Day 07:Natural 07:Natural 08:Dynamic 08:Vivid 09:Theatre Black1 09:HD 0A:Theatre Black2 0A:Silver Screen INIT (Setting only) INIT (Setting only)
Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
	HPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
	VPOS?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming tracking	TRACKIOK xxx	N/A	OK	OK
	TRACKIOK?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
	SYNC?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	N/A
	NRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming mosquito noise reduction adjustment	MNRS xx	N/A	OK	N/A
	MNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming block noise reduction adjustment	BNRS xx	N/A	OK	N/A
	BNRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Auto noise reduction Setting	ANRS xx	N/A	OK	N/A
	ANRS?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	OK
	OFFSETR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETG xxx	N/A	OK	OK
	OFFSETG?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	OFFSETB xxx	N/A	OK	OK
	OFFSETB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	OK
	GAINR?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAIOK xxx	N/A	OK	OK
	GAIOK?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	GAINB xxx	N/A	OK	OK
	GAINB?	N/A	OK	OK
	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
	GAMMA?	N/A	OK	N/A
	Parameter/Return code			N/A
Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
	Parameter			N/A
	GAMMALV? xx	N/A	OK	N/A
	Parameter			N/A
	Return code			N/A
Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
	Parameter			N/A
	MULSCR? xx	N/A	OK	N/A
	Parameter			N/A

Pointer: Left-down	5F	N/A
Page Up	68	N/A
Page Down	69	N/A
1	51	N/A
IRIS	51	N/A
2	52	N/A
3	53	N/A
4	54	N/A
5	55	N/A
Volume	55	N/A
Auto	4A	N/A
InputA/InputB	6B	N/A
input A	4E	N/A
Comp1 (Computer)	43	N/A
Comp1/Comp2	43	N/A
Component	43	OK
Comp/EasyMP	67	N/A
Source	67	N/A
SourceSearch	67	N/A
Comp2	44	N/A
input B	44	N/A
PC	44	OK
S-Video	45	OK
Video	46	OK
Video1/Video2	46	N/A
BNC	40	N/A
D	40	OK
HDMI2	40	N/A
S-Video/Video	4F	N/A
DVI	1D	N/A
DVI/HDMI	1D	N/A
D-RGB	4D	N/A
HDMI	4D	OK
HDMI1	4D	N/A
EasyMP	1E	N/A
Freeze	47	N/A
Still	47	N/A
E-Zoom +	28	N/A
E-Zoom -	29	N/A
A/V Mute	3E	OK
Color Mode	3F	OK
Pattern	4B	N/A
Aspect	20	OK
Reserved	4C	N/A
Memory	6A	N/A
Memory (1)	61	OK
Memory 2	62	N/A
Memory 3	63	N/A
Memory 4	64	N/A
Memory 5	65	N/A
Memory 6	66	N/A
Preset	60	N/A
PinP	27	N/A
Focus +	2A	N/A
Focus -	2B	N/A
Focus	2B	N/A
LensShift +	2C	N/A
LensShift -	2D	N/A
LensShift	2D	N/A
Zoom +	2E	N/A
Zoom -	2F	N/A
Zoom	2F	N/A
Volume +	56	N/A
Volume -	57	N/A
EFFECT	50	N/A
Pointer	50	N/A
Preview	1F	N/A
WallShot	6B	N/A
0(10 Key)	70	N/A
1(10 Key)	71	N/A
2(10 Key)	72	N/A
3(10 Key)	73	N/A
4(10 Key)	74	N/A
5(10 Key)	75	N/A
6(10 Key)	76	N/A
7(10 Key)	77	N/A
8(10 Key)	78	N/A
9(10 Key)	79	N/A

	C3	SCART
	C4	YCbCr
	C5	YPbPr
	C6-CE	N/A
	CF	(YCbCr/YPbPr only)
HDMI advanced	D0	N/A
	D1	N/A
	D2	N/A
	D3	N/A
	D4	N/A
	D5	N/A
	D6-DE	N/A
	DF	N/A
Change cyclic	F0 (For all source)	OK
	F1 (PC)	OK (PC only)
	F2 (Video)	OK (Except PC)
	F3	N/A
	F4	N/A
	F5-FF	N/A

		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Registration of memory	PUSHMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	OK
		Parameter			x1 The kind of memory 00:ALL 02:Advanced x2 The number of memory 01:Memory 1(No.1) : 0A:Memory 10(No.10)
	Confirming of the color	CSEL?	N/A	OK	OK
		Return code			07:RGB/RGBCMY
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement value	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	N/A
		VOL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing/Confirming audio input	AUDIO xx	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO?	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUG-IN x1	N/A	OK	N/A
		PLUG-IN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Sound Mode	SOUNDMODE	N/A	OK	N/A
		SOUNDMODE?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming A/V mute	MUTE xxx	N/A	OK	OK
		MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "A/V mute" OFF: Cancel "A/V mute" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	N/A
		FREEZE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	N/A
		CCAP?	N/A	OK	N/A
		Parameter/Return code			N/A
Environment setting	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	N/A	OK
		SPEED?	N/A	N/A	OK
		Parameter/Return code			00:9600bps 01:19200bps 02:38400bps 03:57600bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A

. (10 Key)	7A	N/A
Source (OEM)	6D	N/A
Quick Setup	6F	N/A
Screen Fit	6F	N/A
Keystone +	7B	N/A
Keystone -	7C	N/A
Brightness	7D	N/A
Brightness +	7D	N/A
Brightness -	7E	N/A
Contrast	7F	OK
Contrast +	7F	N/A
Contrast -	80	N/A
Color Temp.	81	OK
Flesh Tone	82	OK
1Dy	83	OK
User Button	84	N/A
USB Display	85	N/A
USB	85	N/A
SlideShow	86	N/A
Sharpness	87	N/A
Default	88	N/A
RGBCMY	89	N/A
LAN	8A	N/A
LAN/USB	8A	N/A
ID	8F	N/A
ID+HELP	8F	N/A
ID+0	90	N/A
ID+1	91	N/A
ID+2	92	N/A
ID+3	93	N/A
ID+4	94	N/A
ID+5	95	N/A
ID+6	96	N/A
ID+7	97	N/A
ID+8	98	N/A
ID+9	99	N/A
Lens Iris	8B	N/A
Super Res	8C	N/A
Frame Int	8D	N/A
HDMI Link	8E	N/A
Aspect Normal	9A	N/A
Anamorphic	9B	N/A
H Squeeze	9C	N/A
Split	A0	N/A
2D/3D	9D	N/A
2D	9E	N/A
3D	9F	N/A
Auto Iris	A5	N/A
WirelessHD	A2	N/A
SDI	A3	
ipod Control	D0	N/A
Play	D1	N/A
Backward	D6	N/A
Forward	D7	N/A

		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter/Return code			N/A
		DIRECTION?	N/A	OK	
		Parameter/Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK

Publish command

OK:Available / N/A: Return "ERR")

Function Category	Command Function	Command Name	OperatiOK *Password * function	Network	EH-TW400/TW480/TW490C/TW470C PL-Home Cinema 710HD/707
Power Control	Power On	PWR ON	OK	OK	OK
	Power Off	PWR OFF	OK	OK	OK
	ConfirmiOK power status	PWR?	OK	OK	OK
		(Response code returned)			00: Standby Mode 01: Lamp ON 02: Warmup 03: Cooldown 05: Abnormality standby
Main Unit Operation	Key operation	KEY xx *Refer the "Key code"	N/A	OK	OK
Projection screen adjustment	Setting vertical keystone correction value	VKEYSTONE xxx	N/A	OK	OK
		VKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting horizontal keystone correction value	HKEYSTONE xxx	N/A	OK	OK
		HKEYSTONE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting auto keystone correction	AUTOKEYSTONE xxx	N/A	OK	OK
		AUTOKEYSTONE?	N/A	OK	OK
		Parameter/Return code			ON/OFF INIT (Setting only)
	Setting Quick Corner	QC x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-9999 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
		QC?	N/A	OK	OK
		Return code			0-9999 The coordinates of 4 points are returned by 4lines.
	Setting Quick Corner (Vector)	QCV x1 x2 x3 x4 x5 x6 x7 x8	N/A	OK	OK
		Parameter			x1-x8:0-99 This command can be set in the following turns. Left-top (x, y) => Right-top (x, y) => Right-bottom (x, y) => Left-bottom (x, y)
	Setting Quick Corner	QCMV control direction movement	N/A	OK	N/A
		Parameter			N/A
	Setting H-Keystone adijuster	SLIDEKEYSTONE xxx	N/A	OK	OK
		SLIDEKEYSTONE?	N/A	OK	OK
		Parameter/Return code			00: OFF 01: ON INIT (Setting only)
		CORRECTMET?	N/A	OK	N/A
		Return code			N/A
	Setting Aspect ratio	ASPECT xx	N/A	OK	OK
		ASPECT?	N/A	OK	OK
		Parameter/Return code			00:Normal 20: 16:9 30:Auto 40: Full 50: Zoom 60: Native INIT (Setting only) <Auto> x1:Mode x2:Auto
		ZOOMSIZEPOS mode sp	N/A	OK	N/A
		ZOOMSIZEPOS? mode	N/A	OK	N/A
		Parameter/Return code			N/A
		SCFORMAT mode [position]	N/A	OK	N/A
		SCFORMAT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Changing Luminance	LUMINANCE xx	N/A	OK	OK
		LUMINANCE?	N/A	OK	OK
		Parameter/Return code			00:Normal 01:Eco INIT (Setting only)
	Luminance Level setting	LUMLEVEL level	N/A	OK	N/A
		LUMLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting Tele/Wide value	ZOOM xxx	N/A	OK	N/A
		ZOOM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting focus value	FOCUS xxx	N/A	OK	N/A
		FOCUS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting vertical lens shift value	LENS xxx	N/A	OK	N/A
		LENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting horizontal lens shift value	HLENS xxx	N/A	OK	N/A
		HLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting overscan ratio	OVSCAN xx	N/A	OK	OK
		OVSCAN?	N/A	OK	OK
		Parameter/Return code			00:Off 02:4% 04:8% A0:Auto INIT (Setting only)
Changing Source/Input resolution setting	Selecting/Confirming input source	SOURCE xx * Refer the "Source code"	N/A	OK	OK
		SOURCE? * Refer the "Source code"	N/A	OK	OK
	Setting/Confirming resolution	RESOL x1	N/A	OK	OK
		RESOL?	N/A	OK	OK
		Parameter/Return code			00:Auto F0:Wide F1:Normal INIT (Setting only)
Image setting	Setting/Confirming brightness value	BRIGHT xxx	N/A	OK	OK
		BRIGHT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming contrast value	CONTRAST xxx	N/A	OK	OK
		CONTRAST?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming density value	DENSITY xxx	N/A	OK	OK
		DENSITY?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tint value	TINT xxx	N/A	OK	OK
		TINT?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sharpness value	SHARP x1 x2	N/A	OK	OK
		Parameter			x1:0-255 INC/DEC/INIT
		SHARP? x1	N/A	OK	OK
		Parameter			N/A
		Return code			0-255
	Setting/Confirming Red/Blue/Green color value	RED xxx	N/A	OK	OK
		RED?	N/A	OK	OK

Keycode

OK:Available / N/A: Return "ERR")

Main key	Code	EH-TW400/TW480/TW490C/TW470C PL-Home Cinema 710HD/707400
Power	01	○
Standby	02	—
Menu	03	○
Help	04	○
ESC	05	○
Enter	16	○
Up	35	○
Down	36	○
Left	37	○
Right	38	○
Auto	14	—
Source	48	—
SourceSearch	48	○

IR	Code	
Power	3B	○
Power ON	3B	—
Power ON	A1	○
Power OFF	6C	○
Menu	3C	○
Help	30	○
ESC	3D	○
Enter	49	○
Poninter Up	58	○
Pointer down	59	○
Pointer left	5A	○
Pointer right	5B	○
Page Up	68	○
Page Down	69	○
Auto	4A	○
Comp1 (Computer)	43	○
SourceSearch	67	○
Video	46	○
Freeze	47	○
E-Zoom+	28	○
E-Zoom-	29	○
A/V Mute (Blank)	3E	○
Color Mode	3F	○
Aspect	20	○
Volume+	56	○
Volume-	57	○
Pointer	50	○
User	84	○
USB	85	○
LAN	8A	○

Source code

OK:Available / N/A: Return "ERR")

Source	Code	EH-TW400/TW480/TW490C/TW470C PL-Home Cinema 710HD/707
INPUT1 (10 is the "INPUT1" button of remote controller)	10	○
	11	○ (RGB)
	12	—
	13	—
	14	○ (Component)
	15	—
	16-1E	—
	1F	○ (Auto)
INPUT2 (20 is the "INPUT2" button of remote controller)	20	—
	21	—
	22	—
	23	—
	24	—
	25	—
	26-2E	—
	2F	—
INPUT3 (DVI/HDMI) (30 is the "INPUT3" button of remote controller)	30	○ (HDMI)
	31	(Digital-RGB)
	32	—
	33	(RGB-Video)
	34	(YCbCr)
	35	(YPbPr)
	36-3E	—
	3F	(Reply only to "SOURCES?")
VIDEO	40	○
VIDEO(RCA)	41	○ (Video)
VIDEO(S)	42	○ (S-Video)
VIDEO(YCbCr)	43	—
VIDEO(YPbPr)	44	—
VIDEO(BNC)	45	—
VIDEO(AUX)	46	—
VIDEO07	47	—
VIDEO08	48	—
VIDEO09	49	—
EasyMP	50	—
	51	○ (USB Display)
	52	○ (USB)
	53	—
	54	—
	55	—
	56-5F	—
HDBaseT	80	—
	81	—
	82	—
	83	—
	84	—
	85	—
	86-8E	—
	8F	—
Change cyclic	F0 (For all source)	○
	F1 (PC)	○ (PC,USB Display,USB)
	F2 (Video)	○ (HDMI,S-Video,Video)
	F3	—
	F4	—
	F5-FF	—

	color value	Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		GREEN xxx	N/A	OK	OK
		GREEN?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
		BLUE xxx	N/A	OK	OK
		BLUE?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming color temperature value	CTEMP xxx	N/A	OK	OK
		CTEMP?	N/A	OK	OK
		Parameter/Return code			Absolute color temperature 0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming flesh tone value	FCOLOR xxx	N/A	OK	N/A
		FCOLOR?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming color mode	CMODE xx	N/A	OK	OK
		CMODE?	N/A	OK	OK
		Parameter/Return code			05: Teatre 06: Dynamic 0C: Living 0D: Game INIT (Setting only)
	Setting/Confirming horizontal position	HPOS xxx	N/A	OK	OK
		HPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming vertical position	VPOS xxx	N/A	OK	OK
		VPOS?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming tracking	TRACKING xxx	N/A	OK	OK
		TRACKING?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming sync value	SYNC xxx	N/A	OK	OK
		SYNC?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Setting/Confirming noise reduction adjustment	NRS xx	N/A	OK	OK
		NRS?	N/A	OK	OK
		Parameter/Return code			01:Off 02: NR1 03: NR 2 INIT (Setting only)
	Setting/Confirming mosquito noise reduction	MNRS xx	N/A	OK	N/A
		MNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming block noise reduction	BNRS xx	N/A	OK	N/A
		BNRS?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming offset value (Red/Blue/Green)	OFFSETR xxx	N/A	OK	N/A
		OFFSETR?	N/A	OK	N/A
		Parameter/Return code			N/A
		OFFSETG xxx	N/A	OK	N/A
		OFFSETG?	N/A	OK	N/A
		Parameter/Return code			N/A
		OFFSETB xxx	N/A	OK	N/A
		OFFSETB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gain value (Red/Blue/Green)	GAINR xxx	N/A	OK	N/A
		GAINR?	N/A	OK	N/A
		Parameter/Return code			N/A
		GAING xxx	N/A	OK	N/A
		GAING?	N/A	OK	N/A
		Parameter/Return code			N/A
		GAINB xxx	N/A	OK	N/A
		GAINB?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma value	GAMMA xx	N/A	OK	N/A
		GAMMA?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming gamma step value	GAMMALV x1 x2	N/A	OK	N/A
		Parameter			N/A
		GAMMALV? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming mulit screen setting value	MULSCR x1 x2 x3	N/A	OK	N/A
		Parameter			N/A N/A N/A
		MULSCR? xx	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming multi screen operation	MULTI x1	N/A	OK	N/A
		MULTI?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of memory	POPMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Registration of memory	PUSHMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Deletion of memory	ERASEMEM x1 x2	N/A	OK	N/A
		Parameter			N/A
	Confirming of the color	CSEL?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming color gammut value	CGAMUT xx	N/A	OK	N/A
		CGAMUT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming contrast enhancdement	ACE xx	N/A	OK	N/A
		ACE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Super resolution setting	SUPERRES x1	N/A	OK	N/A
		SUPERRES?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming pull down setting (2-2/4-4 pull down)	PULLDOWN x1	N/A	OK	N/A
		PULLDOWN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming frame intepolation setting	MCFI xx	N/A	OK	N/A
		MCFI?	N/A	OK	N/A
		Parameter/Return code			N/A
Sound	Setting/Confirming volume	VOL xxx	N/A	OK	OK
		VOL?	N/A	OK	OK
		Parameter/Return code			0-255 INIT/INC/DEC (Setting only)
	Changing/Confirming audio input	AUDIO mode [source]	N/A	OK	N/A
		Parameter/Return code			N/A
		AUDIO? [source]	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming Mic input volume	MICLEVEL xxx	N/A	OK	N/A
		MICLEVEL?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode Mic status	WAITMIC xxx	N/A	OK	N/A
		WAITMIC?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Plug-in	PLUGIN x1	N/A	OK	N/A
		PLUGIN?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming standby mode audio status	WAITSOUND mode	N/A	OK	N/A
		WAITSOUND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Right and left reversing of Audio	AUDIOOUT mode	N/A	OK	N/A
		AUDIOOUT?	N/A	OK	N/A
		Parameter/Return code			N/A
Unique function	Setting/Confirming	MUTE xxx	N/A	OK	OK

	A/V mute	MUTE?	N/A	OK	OK
		Parameter/Return code			ON :Execute "Blank" OFF: Cancel "Blank" INIT (Setting only)
	Setting/Confirming freeze function	FREEZE xxx	N/A	OK	OK
		FREEZE?	N/A	OK	OK
		Parameter/Return code			ON : Execute "Freeze" OFF: Cancel "Freeze" INIT (Setting only)
	Setting closed caption (only American model)	CCAP xxx	N/A	OK	OK
		CCAP?	N/A	OK	OK
		Parameter/Return code			00 : OFF 11 : CC1 12 : CC2 INIT (Setting only)
Environment setting	Setting/Confirming LCD alignment value	LCDALIGNMENT mode x y updown leftright LCDALIGNMENT mode param	N/A	OK	N/A
		Parameter/Return code			N/A
		LCDALIGNMENT? mode x y LCDALIGNMENT? mode	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming the reverse image (Horizontal)	HREVERSE xxx	N/A	OK	OK
		HREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip horizontal OFF:Normal position INIT (Setting only)
	Setting/Confirming the reverse image (Vertical)	VREVERSE xxx	N/A	OK	OK
		VREVERSE?	N/A	OK	OK
		Parameter/Return code			ON :Flip vertical OFF: Normal position INIT (Setting only)
	Selecting/Confirming background color (A/V Mute display screen)	MSEL xx	N/A	OK	OK
		MSEL?	N/A	OK	OK
		Parameter/Return code			00:Black 01:Blue 02:User logo INIT (Setting only)
	Reset All	INITALL	N/A	OK	OK
	Selecting/Confirming Communication Speed	SPEED xx	N/A	—	OK
		SPEED?	N/A	—	OK
		Parameter/Return code			00 : 9600bps 01 : 19200bps 02 : 38400bps 03 : 57598bps INIT (Setting only)
	Setting/Confirming projector ID	PROJID xx	N/A	OK	N/A
		PROJID?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming Air filter cleaning message	FLCLENOT x1	N/A	OK	N/A
		FLCLENOT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming the timing of cleaning air filter	FLCLETIM x1	N/A	OK	N/A
		FLCLETIM?	N/A	OK	N/A
		Parameter/Return code			N/A
	/Confirming kind of a	FLKIND set	N/A	OK	N/A
		FLKIND?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming projection direction setting	DIRECTION xx	N/A	OK	N/A
		Parameter			N/A
		DIRECTION?	N/A	OK	N/A
		Return code			N/A
	Setting/Confirming remote controller	RCTYPE xx	N/A	OK	N/A
		RCTYPE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming illumination	ILLUM xx	N/A	OK	N/A
		ILLUM?	N/A	OK	N/A
		Parameter/Return code			N/A
	Call of lens position	POPLP xx	N/A	OK	N/A
		Parameter			N/A
	Registration of lens position	PUSHLP xx	N/A	OK	N/A
		Parameter			N/A
	Deletion of lens position	ERASELP xx	N/A	OK	N/A
		Parameter			N/A
	Setting/Confirming the reverse Key position	KREVERSE xx	N/A	OK	N/A
		KREVERSE?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming menu display position	MENUDISP mode param	N/A	OK	N/A
		MENUDISP? mode	N/A	OK	N/A
		Parameter/Return code			N/A
					N/A
	Setting/Confirming standby confirmation	STANDBYCONF mode	N/A	OK	N/A
		STANDBYCONF?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming display product code	PRODUCT mode	N/A	OK	N/A
		PRODUCT?	N/A	OK	N/A
		Parameter/Return code			N/A
	Setting/Confirming HDBaseT	HDBASET terminal mode	N/A	OK	N/A
		Parameter			N/A
		HDBASET? terminal	N/A	OK	N/A
		Parameter			N/A
		Return code			N/A
	Setting/Confirming projection lens setting for short	SFLENS mode	N/A	OK	N/A
		SFLENS?	N/A	OK	N/A
		Parameter/Return code			N/A
Network setting	Getting AMX DDDP BeaconMessage	AMX	N/A	×	N/A
		Return code			N/A
	Setting/Confirming of AMX DDDP IP BeaconMessage	AMXDDDP xx	N/A	OK	N/A
		AMXDDDP?	N/A	OK	N/A
		Parameter/Return code			N/A
Information	Getting lamp operation time	LAMP?	N/A	OK	OK
	Getting serial numbe	SNO?	N/A	OK	OK