

Communication settings

1. Protocol

19200bps,8N1

2. Command format ("h" shows hexadecimal)

Byte Number	0	1	2	3	4	5	6	7	8	9	10	11	12
Command Action	Header						Data						
	Header code		Packet	Data size		CRC flag		Action		Type		Setting code	
	L	H		L	H	L	H	L	H	L	H	L	H
<SET>Change setting to desired value [(cL)(cH)] by [(bL)(bH)].	BEh	EFh	03h	06h	00h	(aL)	(aH)	01h	00h	(bL)	(bH)	(cL)	(cH)
<GET>Read projector internal setup value [(bL)(bH)] .						(aL)	(aH)	02h	00h	(bL)	(bH)	00h	00h
<INCREMENT> Increment setup value [(bL)(bH)] by 1.						(aL)	(aH)	04h	00h	(bL)	(bH)	00h	00h
<DECREMENT> Decrement setup value [(bL)(bH)] by 1.						(aL)	(aH)	05h	00h	(bL)	(bH)	00h	00h
<EXECUTE> Run a command [(bL)(bH)].						(aL)	(aH)	06h	00h	(bL)	(bH)	00h	00h

[Header code] [Packet] [Data size]

Set [BEh, EFh, 03h, 06h, 00h] to byte number 0~4.

[CRC flag]

For byte number 5, 6, refer to RS-232C Communication / Network command table (17).

[Action]

Set functional code to byte number 7, 8.

<SET> = [01h, 00h], <GET> = [02h, 00h], <INCREMENT> = [04h, 00h]

<DECREMENT> = [05h, 00h], <EXECUTE> = [06h, 00h]

Refer to the Communication command table (above).

[Type] [Setting code]

For byte number 9~12, refer to RS-232C Communication / Network command table (17).

3. Response code / Error code ("h" shows hexadecimal)

(1) ACK reply : 06h

When the projector receives the Set, Increment, Decrement or Execute command correctly, the projector changes the setting data for the specified item by [Type], and it returns the code.

(2) NAK reply : 15h

When the projector cannot understand the received command, the projector returns the error code.

In such a case, check the sending code and send the same command again.

(3) Error reply : 1Ch + 0000h

When the projector cannot execute the received command for any reasons, the projector returns the error code.

In such a case, check the sending code and the setting status of the projector.

(4) Data reply : 1Dh + xxxxh

When the projector receives the GET command correctly, the projector returns the response code and 2 bytes of data.

NOTE • For connecting the projector to your devices, please read the manual for each devices, and connect them correctly with suitable cables.

- Operation cannot be guaranteed when the projector receives an undefined command or data.
- Provide an interval of at least 40ms between the response code and any other code.
- The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
- Commands are not accepted during warm-up.
- When the data length is greater than indicated by the data length code, the projector ignore the excess data code. Conversely when the data length is shorter than indicated by the data length code, the projector returns the error code to the computer.

Communication Port

The following two ports are assigned for the command control.

TCP #23

TCP #9715

Configure the following items from a web browser when command control is used.

Port Settings			
Network Control Port1 (Port: 23)	Port open	Click the [Enable] check box to open [Network Control Port1 (Port: 23)] to use TCP #23. Default setting is "Enable".	
	Authentication	Click the [Enable] check box for the [Authentication] setting when authentication is required. Default setting is "Disable".	
Network Control Port2 (Port: 9715)	Port open	Click the [Enable] check box to open [Network Control Port2 (Port: 9715)] to use TCP #9715. Default setting is "Enable".	
	Authentication	Click the [Enable] check box for the [Authentication] setting when authentication is required. Default setting is "Enable".	

When the authentication setting is enabled, the following settings are required.

Security Settings			
Network Control	Authentication Password	Enter the desired authentication password. This setting will be the same for [Network Control Port1 (Port: 23)] and [Network Control Port2 (Port: 9715)] . Default setting is blank.	
	Re-enter Authentication Password		

Command control settings

[TCP #23]

1. Command format

Same as RS-232C communication, refer to RS-232C Communication command format.

2. Response code / Error code ("h" shows hexadecimal)

Four of the response / error code used for TCP#23 are the same as RS-232C Communication (1)~(4). One authentication error reply (5) is added.

(1) ACK reply : 06h

Refer to RS-232C communication (10).

(2) NAK reply : 15h

Refer to RS-232C communication (10).

(3) Error reply : 1Ch + 0000h

Refer to RS-232C communication (10).

(4) Data reply : 1Dh + xxxxh

Refer to RS-232C communication (10).

(5) Authentication error reply : 1Fh + 0400h

When authentication error occurred, the projector returns the error code.

[TCP #9715]

1. Command format

The commands some datum are added to the head and the end of the ones of TCP#9715 are used.

Header	Data length	RS-232C command	Check sum	Connection ID
0x02	0x0D	13 bytes	1 byte	1 byte

[Header]

02, Fixed

[Data Length]

RS-232C commands byte length (0x0D, Fixed)

[RS-232C commands]

Refer to RS-232C Communication command format (9).

[Check Sum]

This is the value to make zero on the addition of the lower 8 bits from the header to the checksum.

[Connection ID]

Random value from 0 to 255 (This value is attached to the reply data).

NOTE • Operation cannot be guaranteed when the projector receives an undefined command or data.

- Provide an interval of at least 40ms between the response code and any other code.
- Commands are not accepted during warm-up.

2. Response code / Error code ("h" shows hexadecimal)

The connection ID is attached for the TCP#23's response / error codes are used. The connection ID is same as the sending command format.

(1) ACK reply : 06h + xxh (xxh : connection ID)

(2) NAK reply : 15h + xxh

(3) Error reply : 1Ch + 0000h + xxh

(4) Data reply : 1Dh + xxxxh + xxh

(5) Authentication error reply : 1Fh + 0400h + xxh

(6) Projector busy reply: 1Fh + xxxxxh + xxh

When the projector is too busy to receives the command, the projector returns the error code.

In such a case, check the sending code and send the same command again.

Automatic Connection Break

The TCP connection will be automatically disconnected after there is no communication for 30 seconds after being established.

Authentication

The projector does not accept commands without authentication success when authentication is enabled. The projector uses a challenge response type authentication with an MD5 (Message Digest 5) algorithm. When the projector is using a LAN, a random 8 bytes will be returned if authentication is enabled. Bind this received 8 bytes and the authentication password and digest this data with the MD5 algorithm and add this in front of the commands to send.

Following is a sample if the authentication password is set to "password" and the random 8 bytes are "a572f60c".

- 1) Select the projector.
- 2) Receive the random 8 bytes "a572f60c" from the projector.
- 3) Bind the random 8 bytes "a572f60c" and the authentication password "password" and it becomes "a572f60cpassword".
- 4) Digest this bind "a572f60cpassword" with MD5 algorithm.
It will be "e3d97429adffa11bce1f7275813d4bde".
- 5) Add this "e3d97429adffa11bce1f7275813d4bde" in front of the commands and send the data.
Send "e3d97429adffa11bce1f7275813d4bde"+command.
- 6) When the sending data is correct, the command will be performed and the reply data will be returned. Otherwise, an authentication error will be returned.

NOTE • As for the transmission of the second or subsequent commands, the authentication data can be omitted when the same connection.

Network Bridge Communication


This projector is equipped with NETWORK BRIDGE function.

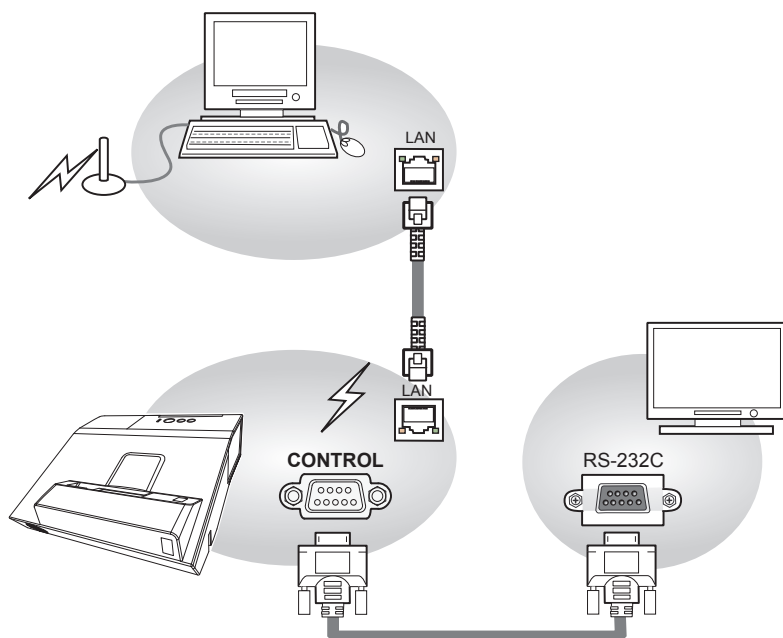
When the projector connects to the computer by LAN communication, an external device that is connected with this projector by RS-232C communication can be controlled from the computer as a network terminal.

For details, see the **1.5 Network Bridge Function - Network Guide**.

NOTE • If data is transferred via wireless and wired LAN at the same time, the projector may not be able to process the data correctly.

Connection

1. If you use wired LAN, connect the computer's LAN port and the projector's **LAN** port with a LAN cable. Use the cable that fulfills the specification shown in figure. If you use wireless LAN, insert the USB wireless adapter into the projector's **USB TYPE A** port.
2. Connect the projector's **CONTROL** port and the RS-232C port of the devices that you want to control with a RS-232C cable.
3. Turn the computer on, and after the computer has started up turn the projector on.
4. Set the COMMUNICATION TYPE to NETWORK BRIDGE. ( **OPTION menu - SERVICE - COMMUNICATION in the User's Manual - Operating Guide**)



Communication settings

For communication setting, use the OPTION - SERVICE - COMMUNICATION menu. ( **OPTION menu - SERVICE - COMMUNICATION in the User's Manual - Operating Guide**)

Item	Condition
BAUD RATE	4800bps / 9600bps / 19200bps / 38400bps
Data length	8 bit (fixed)
PARITY	NONE/ODD/EVEN
Start bit	1 bit (fixed)
Stop bit	1 bit (fixed)
Transmission method	HALF-DUPLEX/FULL-DUPLEX

NOTE • For connecting the projector to your devices, please read the manual for each devices, and connect them correctly with suitable cables.

- Turn off (the power of) both the projector and other devices and unplug , before connecting them.
- For details of Transmission method, refer to **7.4 Transmission method - Network Guide**.

RS-232C Communication / Network command table

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
Power	Set	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00
		Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00
	Get		BE EF	03	06 00	19 D3	02 00	00 60	00 00
		[Example return] 00 00 01 00 02 00 [Off] [On] [Cool down]							
Input Source	Set	COMPUTER IN1	BE EF	03	06 00	FE D2	01 00	00 20	00 00
		COMPUTER IN2	BE EF	03	06 00	3E D0	01 00	00 20	04 00
		HDMI1	BE EF	03	06 00	0E D2	01 00	00 20	03 00
		HDMI2	BE EF	03	06 00	6E D6	01 00	00 20	0D 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		USB TYPE A	BE EF	03	06 00	5E D1	01 00	00 20	06 00
		LAN	BE EF	03	06 00	CE D5	01 00	00 20	0B 00
		USB TYPE B	BE EF	03	06 00	FE D7	01 00	00 20	0C 00
Error Status	Get		BE EF	03	06 00	CD D2	02 00	00 20	00 00
			BE EF	03	06 00	D9 D8	02 00	20 60	00 00
		[Example return] 00 00 01 00 02 00 03 00 [Normal] [Cover error] [Fan error] [Lamp error] 04 00 05 00 07 00 08 00 [Temp error] [Air flow error] [Cold error] [Filter error]							
MAGNIFY	Get		BE EF	03	06 00	7C D2	02 00	07 30	00 00
	Increment		BE EF	03	06 00	1A D2	04 00	07 30	00 00
	Decrement		BE EF	03	06 00	CB D3	05 00	07 30	00 00
FREEZE	Set	NORMAL	BE EF	03	06 00	83 D2	01 00	02 30	00 00
		FREEZE	BE EF	03	06 00	13 D3	01 00	02 30	01 00
	Get		BE EF	03	06 00	B0 D2	02 00	02 30	00 00
PICTURE MODE	Set	NORMAL	BE EF	03	06 00	23 F6	01 00	BA 30	00 00
		CINEMA	BE EF	03	06 00	B3 F7	01 00	BA 30	01 00
		DYNAMIC	BE EF	03	06 00	E3 F4	01 00	BA 30	04 00
		BOARD(BLACK)	BE EF	03	06 00	E3 EF	01 00	BA 30	20 00
		BOARD(GREEN)	BE EF	03	06 00	73 EE	01 00	BA 30	21 00
		WHITEBOARD	BE EF	03	06 00	83 EE	01 00	BA 30	22 00
		DAYTIME	BE EF	03	06 00	E3 C7	01 00	BA 30	40 00
	PHOTO	BE EF	03	06 00	73 F5	01 00	BA 30	05 00	
		DICOM SIM.	BE EF	03	06 00	73 C6	01 00	BA 30	41 00
	BRIGHTNESS	Get		BE EF	03	06 00	10 F6	02 00	BA 30
		[Example return] 00 00 01 00 04 00 10 00 05 00 [Normal] [Cinema] [Dynamic] [Custom] [PHOTO] 20 00 21 00 22 00 40 00 [BOARD(BLACK)][BOARD(GREEN)][WHITEBOARD][DAY TIME] 41 00 [DICOM SIM.]							
Get		BE EF	03	06 00	89 D2	02 00	03 20	00 00	
Increment		BE EF	03	06 00	EF D2	04 00	03 20	00 00	
BRIGHTNESS Reset	Decrement		BE EF	03	06 00	3E D3	05 00	03 20	00 00
	Execute		BE EF	03	06 00	58 D3	06 00	00 70	00 00

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
						CRC	Action	Type	Setting code
CONTRAST	Get		BE EF	03	06 00	FD D3	02 00	04 20	00 00
	Increment		BE EF	03	06 00	9B D3	04 00	04 20	00 00
	Decrement		BE EF	03	06 00	4A D2	05 00	04 20	00 00
CONTRAST Reset	Execute		BE EF	03	06 00	A4 D2	06 00	01 70	00 00
GAMMA	Set	1 DEFAULT	BE EF	03	06 00	07 E9	01 00	A1 30	20 00
		1 CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00
		2 DEFAULT	BE EF	03	06 00	97 E8	01 00	A1 30	21 00
		2 CUSTOM	BE EF	03	06 00	97 FC	01 00	A1 30	11 00
		3 DEFAULT	BE EF	03	06 00	67 E8	01 00	A1 30	22 00
		3 CUSTOM	BE EF	03	06 00	67 FC	01 00	A1 30	12 00
		4 DEFAULT	BE EF	03	06 00	F7 E9	01 00	A1 30	23 00
		4 CUSTOM	BE EF	03	06 00	F7 FD	01 00	A1 30	13 00
		5 DEFAULT	BE EF	03	06 00	C7 EB	01 00	A1 30	24 00
		5 CUSTOM	BE EF	03	06 00	C7 FF	01 00	A1 30	14 00
		6 DEFAULT	BE EF	03	06 00	57 EA	01 00	A1 30	25 00
		6 CUSTOM	BE EF	03	06 00	57 FE	01 00	A1 30	15 00
		7 DEFAULT	BE EF	03	06 00	A7 EA	01 00	A1 30	26 00
		7 CUSTOM	BE EF	03	06 00	A7 FE	01 00	A1 30	16 00
	8 DEFAULT	BE EF	03	06 00	37 EB	01 00	A1 30	27 00	
8 CUSTOM	BE EF	03	06 00	37 FF	01 00	A1 30	17 00		
Get		BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	
ACCENT UALIZER	Get		BE EF	03	06 00	5D 70	02 00	0C 22	00 00
	Increment		BE EF	03	06 00	3B 70	04 00	0C 22	00 00
	Decrement		BE EF	03	06 00	EA 71	05 00	0C 22	00 00
ACCENT UALIZER RESET	Execute		BE EF	03	06 00	C8 DB	06 00	2C 70	00 00
HDCR	Get		BE EF	03	06 00	A1 71	02 00	0D 22	00 00
	Increment		BE EF	03	06 00	C7 71	04 00	0D 22	00 00
	Decrement		BE EF	03	06 00	16 70	05 00	0D 22	00 00
HDCR RESET	Excute		BE EF	03	06 00	34 DA	06 00	2D 70	00 00
User Gamma Pattern	Set	Off	BE EF	03	06 00	FB FA	01 00	80 30	00 00
		9 steps gray scale	BE EF	03	06 00	6B FB	01 00	80 30	01 00
		15 steps gray scale	BE EF	03	06 00	9B FB	01 00	80 30	02 00
		Ramp	BE EF	03	06 00	0B FA	01 00	80 30	03 00
	Get		BE EF	03	06 00	C8 FA	02 00	80 30	00 00
User Gamma Point 1	Get		BE EF	03	06 00	08 FE	02 00	90 30	00 00
	Increment		BE EF	03	06 00	6E FE	04 00	90 30	00 00
	Decrement		BE EF	03	06 00	BF FF	05 00	90 30	00 00
User Gamma Point 1 Reset	Execute		BE EF	03	06 00	58 C2	06 00	50 70	00 00
User Gamma Point 2	Get		BE EF	03	06 00	F4 FF	02 00	91 30	00 00
	Increment		BE EF	03	06 00	92 FF	04 00	91 30	00 00
	Decrement		BE EF	03	06 00	43 FE	05 00	91 30	00 00
User Gamma Point 2 Reset	Execute		BE EF	03	06 00	A4 C3	06 00	51 70	00 00
User Gamma Point 3	Get		BE EF	03	06 00	B0 FF	02 00	92 30	00 00
	Increment		BE EF	03	06 00	D6 FF	04 00	92 30	00 00
	Decrement		BE EF	03	06 00	07 FE	05 00	92 30	00 00

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
						CRC	Action	Type	Setting code
User Gamma Point 3 Reset		Execute	BE EF	03	06 00	E0 C3	06 00	52 70	00 00
User Gamma Point 4		Get	BE EF	03	06 00	4C FE	02 00	93 30	00 00
		Increment	BE EF	03	06 00	2A FE	04 00	93 30	00 00
		Decrement	BE EF	03	06 00	FB FF	05 00	93 30	00 00
User Gamma Point 4 Reset		Execute	BE EF	03	06 00	1C C2	06 00	53 70	00 00
User Gamma Point 5		Get	BE EF	03	06 00	38 FF	02 00	94 30	00 00
		Increment	BE EF	03	06 00	5E FF	04 00	94 30	00 00
		Decrement	BE EF	03	06 00	8F FE	05 00	94 30	00 00
User Gamma Point 5 Reset		Execute	BE EF	03	06 00	68 C3	06 00	54 70	00 00
User Gamma Point 6		Get	BE EF	03	06 00	C4 FE	02 00	95 30	00 00
		Increment	BE EF	03	06 00	A2 FE	04 00	95 30	00 00
		Decrement	BE EF	03	06 00	73 FF	05 00	95 30	00 00
User Gamma Point 6 Reset		Execute	BE EF	03	06 00	94 C2	06 00	55 70	00 00
User Gamma Point 7		Get	BE EF	03	06 00	80 FE	02 00	96 30	00 00
		Increment	BE EF	03	06 00	E6 FE	04 00	96 30	00 00
		Decrement	BE EF	03	06 00	37 FF	05 00	96 30	00 00
User Gamma Point 7 Reset		Execute	BE EF	03	06 00	D0 C2	06 00	56 70	00 00
User Gamma Point 8		Get	BE EF	03	06 00	7C FF	02 00	97 30	00 00
		Increment	BE EF	03	06 00	1A FF	04 00	97 30	00 00
		Decrement	BE EF	03	06 00	CB FE	05 00	97 30	00 00
User Gamma Point 8 Reset		Execute	BE EF	03	06 00	2C C3	06 00	57 70	00 00
COLOR TEMP	Set	1 HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00
		1 CUSTOM	BE EF	03	06 00	CB F8	01 00	B0 30	13 00
		2 MID	BE EF	03	06 00	9B F4	01 00	B0 30	02 00
		2 CUSTOM	BE EF	03	06 00	5B F9	01 00	B0 30	12 00
		3 LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00
		3 CUSTOM	BE EF	03	06 00	AB F9	01 00	B0 30	11 00
		4 Hi-BRIGHT-1	BE EF	03	06 00	3B F2	01 00	B0 30	08 00
		4 CUSTOM	BE EF	03	06 00	FB FF	01 00	B0 30	18 00
		5 Hi-BRIGHT-2	BE EF	03	06 00	AB F3	01 00	B0 30	09 00
		5 CUSTOM	BE EF	03	06 00	6B FE	01 00	B0 30	19 00
		6 Hi-BRIGHT-3	BE EF	03	06 00	5B F3	01 00	B0 30	0A 00
		6 CUSTOM	BE EF	03	06 00	9B FE	01 00	B0 30	1A 00
		7 Hi-BRIGHT-4	BE EF	03	06 00	CB F2	01 00	B0 30	0B 00
	7 CUSTOM	BE EF	03	06 00	0B FF	01 00	B0 30	1B 00	
COLOR TEMP GAIN R		Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00
		Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00
		Increment	BE EF	03	06 00	52 F4	04 00	B1 30	00 00
		Decrement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00
COLOR TEMP GAIN R Reset		Execute	BE EF	03	06 00	10 C6	06 00	46 70	00 00
COLOR TEMP GAIN G		Get	BE EF	03	06 00	70 F4	02 00	B2 30	00 00
		Increment	BE EF	03	06 00	16 F4	04 00	B2 30	00 00
		Decrement	BE EF	03	06 00	C7 F5	05 00	B2 30	00 00

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
						CRC	Action	Type	Setting code
COLOR TEMP GAIN G Reset	Execute		BE EF	03	06 00	EC C7	06 00	47 70	00 00
COLOR TEMP GAIN B	Get		BE EF	03	06 00	8C F5	02 00	B3 30	00 00
	Increment		BE EF	03	06 00	EA F5	04 00	B3 30	00 00
	Decrement		BE EF	03	06 00	3B F4	05 00	B3 30	00 00
COLOR TEMP GAIN B Reset	Execute		BE EF	03	06 00	F8 C4	06 00	48 70	00 00
COLOR TEMP OFFSET R	Get		BE EF	03	06 00	04 F5	02 00	B5 30	00 00
	Increment		BE EF	03	06 00	62 F5	04 00	B5 30	00 00
	Decrement		BE EF	03	06 00	B3 F4	05 00	B5 30	00 00
COLOR TEMP OFFSET R Reset	Execute		BE EF	03	06 00	40 C5	06 00	4A 70	00 00
COLOR TEMP OFFSET G	Get		BE EF	03	06 00	40 F5	02 00	B6 30	00 00
	Increment		BE EF	03	06 00	26 F5	04 00	B6 30	00 00
	Decrement		BE EF	03	06 00	F7 F4	05 00	B6 30	00 00
COLOR TEMP OFFSET G Reset	Execute		BE EF	03	06 00	BC C4	06 00	4B 70	00 00
COLOR TEMP OFFSET B	Get		BE EF	03	06 00	BC F4	02 00	B7 30	00 00
	Increment		BE EF	03	06 00	DA F4	04 00	B7 30	00 00
	Decrement		BE EF	03	06 00	0B F5	05 00	B7 30	00 00
COLOR TEMP OFFSET B Reset	Execute		BE EF	03	06 00	C8 C5	06 00	4C 70	00 00
COLOR	Get		BE EF	03	06 00	B5 72	02 00	02 22	00 00
	Increment		BE EF	03	06 00	D3 72	04 00	02 22	00 00
	Decrement		BE EF	03	06 00	02 73	05 00	02 22	00 00
COLOR Reset	Execute		BE EF	03	06 00	80 D0	06 00	0A 70	00 00
TINT	Get		BE EF	03	06 00	49 73	02 00	03 22	00 00
	Increment		BE EF	03	06 00	2F 73	04 00	03 22	00 00
	Decrement		BE EF	03	06 00	FE 72	05 00	03 22	00 00
TINT Reset	Execute		BE EF	03	06 00	7C D1	06 00	0B 70	00 00
SHARPNESS	Get		BE EF	03	06 00	F1 72	02 00	01 22	00 00
	Increment		BE EF	03	06 00	97 72	04 00	01 22	00 00
	Decrement		BE EF	03	06 00	46 73	05 00	01 22	00 00
SHARPNESS Reset	Execute		BE EF	03	06 00	C4 D0	06 00	09 70	00 00
ACTIVE IRIS	Set	OFF	BE EF	03	06 00	0B 22	01 00	04 33	00 00
		THEATER	BE EF	03	06 00	CB 2F	01 00	04 33	10 00
		PRESENTATION	BE EF	03	06 00	5B 2E	01 00	04 33	11 00
MY MEMORY Load	Set	Get	BE EF	03	06 00	38 22	02 00	04 33	00 00
		1	BE EF	03	06 00	0E D7	01 00	14 20	00 00
		2	BE EF	03	06 00	9E D6	01 00	14 20	01 00
		3	BE EF	03	06 00	6E D6	01 00	14 20	02 00
MY MEMORY Save	Set	4	BE EF	03	06 00	FE D7	01 00	14 20	03 00
		1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00
		2	BE EF	03	06 00	62 D7	01 00	15 20	01 00
		3	BE EF	03	06 00	92 D7	01 00	15 20	02 00
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
							Action	Type	Setting code
ASPECT	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
		NATIVE	BE EF	03	06 00	5E D7	01 00	08 20	08 00
		14:9	BE EF	03	06 00	CE D6	01 00	08 20	09 00
		16:10	BE EF	03	06 00	3E D6	01 00	08 20	0A 00
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
	Get		BE EF	03	06 00	AD D0	02 00	08 20	00 00
OVER SCAN	Get		BE EF	03	06 00	91 70	02 00	09 22	00 00
	Increment		BE EF	03	06 00	F7 70	04 00	09 22	00 00
	Decrement		BE EF	03	06 00	26 71	05 00	09 22	00 00
OVER SCAN Reset	Execute		BE EF	03	06 00	EC D9	06 00	27 70	00 00
V POSITION	Get		BE EF	03	06 00	0D 83	02 00	00 21	00 00
	Increment		BE EF	03	06 00	6B 83	04 00	00 21	00 00
	Decrement		BE EF	03	06 00	BA 82	05 00	00 21	00 00
V POSITION Reset	Execute		BE EF	03	06 00	E0 D2	06 00	02 70	00 00
H POSITION	Get		BE EF	03	06 00	F1 82	02 00	01 21	00 00
	Increment		BE EF	03	06 00	97 82	04 00	01 21	00 00
	Decrement		BE EF	03	06 00	46 83	05 00	01 21	00 00
H POSITION Reset	Execute		BE EF	03	06 00	1C D3	06 00	03 70	00 00
H PHASE	Get		BE EF	03	06 00	49 83	02 00	03 21	00 00
	Increment		BE EF	03	06 00	2F 83	04 00	03 21	00 00
	Decrement		BE EF	03	06 00	FE 82	05 00	03 21	00 00
H SIZE	Get		BE EF	03	06 00	B5 82	02 00	02 21	00 00
	Increment		BE EF	03	06 00	D3 82	04 00	02 21	00 00
	Decrement		BE EF	03	06 00	02 83	05 00	02 21	00 00
H SIZE Reset	Execute		BE EF	03	06 00	68 D2	06 00	04 70	00 00
AUTO ADJUST EXECUTE	Execute		BE EF	03	06 00	91 D0	06 00	0A 20	00 00
PROGRESSIVE	Set	OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
		FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
	Get		BE EF	03	06 00	79 72	02 00	07 22	00 00
VIDEO NR	Set	LOW	BE EF	03	06 00	26 72	01 00	06 22	01 00
		MID	BE EF	03	06 00	D6 72	01 00	06 22	02 00
		HIGH	BE EF	03	06 00	46 73	01 00	06 22	03 00
	Get		BE EF	03	06 00	85 73	02 00	06 22	00 00
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00
	Get		BE EF	03	06 00	3D 72	02 00	04 22	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header					Command Data		
							Action	Type	Setting code
C-VIDEO FORMAT	Set	AUTO	BE EF	03	06 00	A2 70	01 00	11 22	0A 00
		NTSC	BE EF	03	06 00	C2 74	01 00	11 22	04 00
		PAL	BE EF	03	06 00	52 75	01 00	11 22	05 00
		SECAM	BE EF	03	06 00	52 70	01 00	11 22	09 00
		NTSC4.43	BE EF	03	06 00	62 77	01 00	11 22	02 00
		M-PAL	BE EF	03	06 00	C2 71	01 00	11 22	08 00
		N-PAL	BE EF	03	06 00	32 74	01 00	11 22	07 00
HDMI1 FORMAT	Set	Get	BE EF	03	06 00	31 76	02 00	11 22	00 00
		AUTO	BE EF	03	06 00	BA 77	01 00	13 22	00 00
		VIDEO	BE EF	03	06 00	2A 76	01 00	13 22	01 00
HDMI2 FORMAT	Set	COMPUTER	BE EF	03	06 00	DA 76	01 00	13 22	02 00
		Get	BE EF	03	06 00	89 77	02 00	13 22	00 00
		AUTO	BE EF	03	06 00	52 75	01 00	1D 22	00 00
		VIDEO	BE EF	03	06 00	C2 74	01 00	1D 22	01 00
		COMPUTER	BE EF	03	06 00	32 74	01 00	1D 22	02 00
HDMI1 RANGE	Set	Get	BE EF	03	06 00	61 75	02 00	1D 22	00 00
		AUTO	BE EF	03	06 00	86 D8	01 00	22 20	00 00
		NORMAL	BE EF	03	06 00	16 D9	01 00	22 20	01 00
		ENHANCED	BE EF	03	06 00	E6 D9	01 00	22 20	02 00
HDMI2 RANGE	Set	Get	BE EF	03	06 00	B5 D8	02 00	22 20	00 00
		AUTO	BE EF	03	06 00	7A D9	01 00	23 20	00 00
		NORMAL	BE EF	03	06 00	EAD8	01 00	23 20	01 00
		ENHANCED	BE EF	03	06 00	1A D8	01 00	23 20	02 00
		Get	BE EF	03	06 00	49 D9	02 00	23 20	00 00
COMPUTER IN1	Set	AUTO	BE EF	03	06 00	CE D6	01 00	10 20	03 00
		SYNC ON G OFF	BE EF	03	06 00	5E D7	01 00	10 20	02 00
		Get	BE EF	03	06 00	0D D6	02 00	10 20	00 00
COMPUTER IN2	Set	AUTO	BE EF	03	06 00	32 D7	01 00	11 20	03 00
		SYNC ON G OFF	BE EF	03	06 00	A2 D6	01 00	11 20	02 00
		MONITOR OUT	BE EF	03	06 00	02 D0	01 00	11 20	08 00
		Get	BE EF	03	06 00	F1 D7	02 00	11 20	00 00
FRAME LOCK – COMPUTER IN1	Set	OFF	BE EF	03	06 00	3B C2	01 00	50 30	00 00
		ON	BE EF	03	06 00	AB C3	01 00	50 30	01 00
		Get	BE EF	03	06 00	08 C2	02 00	50 30	00 00
FRAME LOCK – COMPUTER IN2	Set	OFF	BE EF	03	06 00	0B C3	01 00	54 30	00 00
		ON	BE EF	03	06 00	9B C2	01 00	54 30	01 00
		Get	BE EF	03	06 00	38 C3	02 00	54 30	00 00
FRAME LOCK - HDMI1	Set	OFF	BE EF	03	06 00	7F C2	01 00	53 30	00 00
		ON	BE EF	03	06 00	EF C3	01 00	53 30	01 00
		Get	BE EF	03	06 00	4C C2	02 00	53 30	00 00
FRAME LOCK - HDMI2	Set	OFF	BE EF	03	06 00	97 C0	01 00	5D 30	00 00
		ON	BE EF	03	06 00	07 C1	01 00	5D 30	01 00
		Get	BE EF	03	06 00	A4 C0	02 00	5D 30	00 00
D-ZOOM		Get	BE EF	03	06 00	D0 D0	02 00	0A 30	00 00
		Increment	BE EF	03	06 00	B6 D0	04 00	0A 30	00 00
		Decrement	BE EF	03	06 00	67 D1	05 00	0A 30	00 00
D-ZOOM Reset		Execute	BE EF	03	06 00	98 C9	06 00	70 70	00 00
D-SHIFT V		Get	BE EF	03	06 00	2C D1	02 00	0B 30	00 00
		Increment	BE EF	03	06 00	4A D1	04 00	0B 30	00 00
		Decrement	BE EF	03	06 00	9B D0	05 00	0B 30	00 00

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
D-SHIFT V Reset	Execute		BE EF	03	06 00	A8 C8	06 00	74 70	00 00
D-SHIFT H	Get		BE EF	03	06 00	58 D0	02 00	0C 30	00 00
	Increment		BE EF	03	06 00	3E D0	04 00	0C 30	00 00
	Decrement		BE EF	03	06 00	EF D1	05 00	0C 30	00 00
D-SHIFT H Reset	Execute		BE EF	03	06 00	54 C9	06 00	75 70	00 00
PICT.POSIT.H	Set	RIGHT	BE EF	03	06 00	46 D5	01 00	1E 20	01 00
		MIDDLE	BE EF	03	06 00	D6 D4	01 00	1E 20	00 00
		LEFT	BE EF	03	06 00	B6 D5	01 00	1E 20	02 00
		Get	BE EF	03	06 00	E5 D4	02 00	1E 20	00 00
KEYSTONE V	Get		BE EF	03	06 00	B9 D3	02 00	07 20	00 00
	Increment		BE EF	03	06 00	DF D3	04 00	07 20	00 00
	Decrement		BE EF	03	06 00	0E D2	05 00	07 20	00 00
KEYSTONE V Reset	Execute		BE EF	03	06 00	08 D0	06 00	0C 70	00 00
KEYSTONE H	Get		BE EF	03	06 00	E9 D0	02 00	0B 20	00 00
	Increment		BE EF	03	06 00	8F D0	04 00	0B 20	00 00
	Decrement		BE EF	03	06 00	5E D1	05 00	0B 20	00 00
KEYSTONE H Reset	Execute		BE EF	03	06 00	98 D8	06 00	20 70	00 00
PERFECT FIT	Set	Disable	BE EF	03	06 00	FE 88	01 00	20 21	00 00
		Enable	BE EF	03	06 00	6E 89	01 00	20 21	01 00
		Get	BE EF	03	06 00	CD 88	02 00	20 21	00 00
PERFECT FIT Left Top -H	Get		BE EF	03	06 00	31 89	02 00	21 21	00 00
	Increment		BE EF	03	06 00	57 89	04 00	21 21	00 00
	Decrement		BE EF	03	06 00	86 88	05 00	21 21	00 00
PERFECT FIT Left Top -V	Get		BE EF	03	06 00	75 89	02 00	22 21	00 00
	Increment		BE EF	03	06 00	13 89	04 00	22 21	00 00
	Decrement		BE EF	03	06 00	C2 88	05 00	22 21	00 00
PERFECT FIT Right Top -H	Get		BE EF	03	06 00	89 88	02 00	23 21	00 00
	Increment		BE EF	03	06 00	EF 88	04 00	23 21	00 00
	Decrement		BE EF	03	06 00	3E 89	05 00	23 21	00 00
PERFECT FIT Right Top -V	Get		BE EF	03	06 00	FD 89	02 00	24 21	00 00
	Increment		BE EF	03	06 00	9B 89	04 00	24 21	00 00
	Decrement		BE EF	03	06 00	4A 88	05 00	24 21	00 00
PERFECT FIT Left Bottom -H	Get		BE EF	03	06 00	01 88	02 00	25 21	00 00
	Increment		BE EF	03	06 00	67 88	04 00	25 21	00 00
	Decrement		BE EF	03	06 00	B6 89	05 00	25 21	00 00
PERFECT FIT Left Bottom -V	Get		BE EF	03	06 00	45 88	02 00	26 21	00 00
	Increment		BE EF	03	06 00	23 88	04 00	26 21	00 00
	Decrement		BE EF	03	06 00	F2 89	05 00	26 21	00 00
PERFECT FIT Right Bottom -H	Get		BE EF	03	06 00	B9 89	02 00	27 21	00 00
	Increment		BE EF	03	06 00	DF 89	04 00	27 21	00 00
	Decrement		BE EF	03	06 00	0E 88	05 00	27 21	00 00
PERFECT FIT Right Bottom -V	Get		BE EF	03	06 00	AD 8A	02 00	28 21	00 00
	Increment		BE EF	03	06 00	CB 8A	04 00	28 21	00 00
	Decrement		BE EF	03	06 00	1A 8B	05 00	28 21	00 00
PERFECT FIT All Corners Reset	Execute		BE EF	03	06 00	D5 8A	06 00	29 21	00 00

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
PERFECT FIT Left Side Distortion	Get		BE EF	03	06 00	31 97	02 00	41 21	00 00
	Increment		BE EF	03	06 00	57 97	04 00	41 21	00 00
	Decrement		BE EF	03	06 00	86 96	05 00	41 21	00 00
PERFECT FIT Right Side Distortion	Get		BE EF	03	06 00	75 97	02 00	42 21	00 00
	Increment		BE EF	03	06 00	13 97	04 00	42 21	00 00
	Decrement		BE EF	03	06 00	C2 96	05 00	42 21	00 00
PERFECT FIT Distortion Position V	Get		BE EF	03	06 00	89 96	02 00	43 21	00 00
	Increment		BE EF	03	06 00	EF 96	04 00	43 21	00 00
	Decrement		BE EF	03	06 00	3E 97	05 00	43 21	00 00
PERFECT FIT Top Side Distortion	Get		BE EF	03	06 00	FD 97	02 00	44 21	00 00
	Increment		BE EF	03	06 00	9B 97	04 00	44 21	00 00
	Decrement		BE EF	03	06 00	4A 96	05 00	44 21	00 00
PERFECT FIT Bottom Side Distortion	Get		BE EF	03	06 00	01 96	02 00	45 21	00 00
	Increment		BE EF	03	06 00	67 96	04 00	45 21	00 00
	Decrement		BE EF	03	06 00	B6 97	05 00	45 21	00 00
PERFECT FIT Distortion Position H	Get		BE EF	03	06 00	45 96	02 00	46 21	00 00
	Increment		BE EF	03	06 00	23 96	04 00	46 21	00 00
	Decrement		BE EF	03	06 00	F2 97	05 00	46 21	00 00
PERFECT FIT All Sides Reset	Execute		BE EF	03	06 00	3D 96	06 00	47 21	00 00
PERFECT FIT Memory Save-1	Execute		BE EF	03	06 00	29 95	06 00	48 21	00 00
PERFECT FIT Memory Save-2	Execute		BE EF	03	06 00	D5 94	06 00	49 21	00 00
PERFECT FIT Memory Save-3	Execute		BE EF	03	06 00	91 94	06 00	4A 21	00 00
PERFECT FIT Memory Load-1	Execute		BE EF	03	06 00	6D 95	06 00	4B 21	00 00
PERFECT FIT Memory Load-2	Execute		BE EF	03	06 00	19 94	06 00	4C 21	00 00
PERFECT FIT Memory Load-3	Execute		BE EF	03	06 00	E5 95	06 00	4D 21	00 00
AUTO ECO MODE	Set	OFF	BE EF	03	06 00	FB 27	01 00	10 33	00 00
		ON	BE EF	03	06 00	6B 26	01 00	10 33	01 00
		Get	BE EF	03	06 00	C8 27	02 00	10 33	00 00
ECO MODE	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		ECO	BE EF	03	06 00	AB 22	01 00	00 33	01 00
		INTELLIGENT ECO	BE EF	03	06 00	FB 2E	01 00	00 33	10 00
		SAVER	BE EF	03	06 00	FB 3A	01 00	00 33	20 00
		Get	BE EF	03	06 00	08 23	02 00	00 33	00 00
INSTALLATION	Set	FRONT / DESKTOP	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		REAR / DESKTOP	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		REAR / CEILING	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		FRONT / CEILING	BE EF	03	06 00	37 D2	01 00	01 30	03 00
		Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00
STANDBY MODE	Set	NORMAL	BE EF	03	06 00	D6 D2	01 00	01 60	00 00
		SAVING	BE EF	03	06 00	46 D3	01 00	01 60	01 00
		Get	BE EF	03	06 00	E5 D2	02 00	01 60	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header	Command Data						
			CRC		Action	Type	Setting code		
MONITOR OUT - COMPUTER IN1	Set	COMPUTER IN1	BE EF	03	06 00	3E F4	01 00	B0 20	00 00
		OFF	BE EF	03	06 00	CE B5	01 00	B0 20	FF 00
		Get	BE EF	03	06 00	0D F4	02 00	B0 20	00 00
MONITOR OUT - VIDEO	Set	COMPUTER IN1	BE EF	03	06 00	C2 F5	01 00	B1 20	00 00
		OFF	BE EF	03	06 00	32 B4	01 00	B1 20	FF 00
		Get	BE EF	03	06 00	F1 F5	02 00	B1 20	00 00
MONITOR OUT - HDMI1	Set	COMPUTER IN1	BE EF	03	06 00	7A F4	01 00	B3 20	00 00
		OFF	BE EF	03	06 00	8A B5	01 00	B3 20	FF 00
		Get	BE EF	03	06 00	49 F4	02 00	B3 20	00 00
MONITOR OUT - HDMI2	Set	COMPUTER IN1	BE EF	03	06 00	92 F6	01 00	BD 20	00 00
		OFF	BE EF	03	06 00	62 B7	01 00	BD 20	FF 00
		Get	BE EF	03	06 00	A1 F6	02 00	BD 20	00 00
MONITOR OUT - LAN	Set	COMPUTER IN1	BE EF	03	06 00	1A F6	01 00	BB 20	00 00
		OFF	BE EF	03	06 00	EA B7	01 00	BB 20	FF 00
		Get	BE EF	03	06 00	29 F6	02 00	BB 20	00 00
MONITOR OUT- USB TYPE A	Set	COMPUTER IN1	BE EF	03	06 00	B6 F4	01 00	B6 20	00 00
		OFF	BE EF	03	06 00	46 B5	01 00	B6 20	FF 00
		Get	BE EF	03	06 00	85 F4	02 00	B6 20	00 00
MONITOR OUT - USB TYPE B	Set	COMPUTER IN1	BE EF	03	06 00	6E F7	01 00	BC 20	00 00
		OFF	BE EF	03	06 00	9E B6	01 00	BC 20	FF 00
		Get	BE EF	03	06 00	5D F7	02 00	BC 20	00 00
MONITOR OUT - STANDBY	Set	COMPUTER IN1	BE EF	03	06 00	2A F7	01 00	BF 20	00 00
		OFF	BE EF	03	06 00	DA B6	01 00	BF 20	FF 00
		Get	BE EF	03	06 00	19 F7	02 00	BF 20	00 00
VOLUME - COMPUTER IN1	Get	Get	BE EF	03	06 00	CD CC	02 00	60 20	00 00
		Increment	BE EF	03	06 00	AB CC	04 00	60 20	00 00
		Decrement	BE EF	03	06 00	7A CD	05 00	60 20	00 00
VOLUME - COMPUTER IN2	Get	Get	BE EF	03	06 00	FD CD	02 00	64 20	00 00
		Increment	BE EF	03	06 00	9B CD	04 00	64 20	00 00
		Decrement	BE EF	03	06 00	4A CC	05 00	64 20	00 00
VOLUME - VIDEO	Get	Get	BE EF	03	06 00	31 CD	02 00	61 20	00 00
		Increment	BE EF	03	06 00	57 CD	04 00	61 20	00 00
		Decrement	BE EF	03	06 00	86 CC	05 00	61 20	00 00
VOLUME - HDMI1	Get	Get	BE EF	03	06 00	89 CC	02 00	63 20	00 00
		Increment	BE EF	03	06 00	EF CC	04 00	63 20	00 00
		Decrement	BE EF	03	06 00	3E CD	05 00	63 20	00 00
VOLUME - HDMI2	Get	Get	BE EF	03	06 00	61 CE	02 00	6D 20	00 00
		Increment	BE EF	03	06 00	07 CE	04 00	6D 20	00 00
		Decrement	BE EF	03	06 00	D6 CF	05 00	6D 20	00 00
VOLUME - LAN	Get	Get	BE EF	03	06 00	E9 CE	02 00	6B 20	00 00
		Increment	BE EF	03	06 00	8F CE	04 00	6B 20	00 00
		Decrement	BE EF	03	06 00	5E CF	05 00	6B 20	00 00
VOLUME - USB TYPE A	Get	Get	BE EF	03	06 00	45 CC	02 00	66 20	00 00
		Increment	BE EF	03	06 00	23 CC	04 00	66 20	00 00
		Decrement	BE EF	03	06 00	F2 CD	05 00	66 20	00 00
VOLUME - USB TYPE B	Get	Get	BE EF	03	06 00	9D CF	02 00	6C 20	00 00
		Increment	BE EF	03	06 00	FB CF	04 00	6C 20	00 00
		Decrement	BE EF	03	06 00	2A CE	05 00	6C 20	00 00
VOLUME - STANDBY	Get	Get	BE EF	03	06 00	D9 CF	02 00	6F 20	00 00
		Increment	BE EF	03	06 00	BF CF	04 00	6F 20	00 00
		Decrement	BE EF	03	06 00	6E CE	05 00	6F 20	00 00

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
							Action	Type	Setting code
MUTE	Set	OFF	BE EF	03	06 00	46 D3	01 00	02 20	00 00
		ON	BE EF	03	06 00	D6 D2	01 00	02 20	01 00
	Get		BE EF	03	06 00	75 D3	02 00	02 20	00 00
AV MUTE	Set	OFF	BE EF	03	06 00	FE F0	01 00	A0 20	00 00
		ON	BE EF	03	06 00	6E F1	01 00	A0 20	01 00
	Get		BE EF	03	06 00	CD F0	02 00	A0 20	00 00
SPEAKER	Set	ON	BE EF	03	06 00	FE D4	01 00	1C 20	01 00
		OFF	BE EF	03	06 00	6E D5	01 00	1C 20	00 00
	Get		BE EF	03	06 00	5D D5	02 00	1C 20	00 00
AUDIO SOURCE - COMPUTER IN1	Set	AUDIO IN1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
		AUDIO IN2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
		OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00
	Get		BE EF	03	06 00	CD DD	02 00	30 20	00 00
AUDIO SOURCE - COMPUTER IN2	Set	AUDIO IN1	BE EF	03	06 00	5E DD	01 00	34 20	01 00
		AUDIO IN2	BE EF	03	06 00	AE DD	01 00	34 20	02 00
		OFF	BE EF	03	06 00	CE DC	01 00	34 20	00 00
	Get		BE EF	03	06 00	FD DC	02 00	34 20	00 00
AUDIO SOURCE - LAN	Set	OFF	BE EF	03	06 00	DA DF	01 00	3B 20	00 00
		AUDIO IN1	BE EF	03	06 00	4A DE	01 00	3B 20	01 00
		AUDIO IN2	BE EF	03	06 00	BA DE	01 00	3B 20	02 00
		AUDIO LAN	BE EF	03	06 00	8A D3	01 00	3B 20	11 00
	Get		BE EF	03	06 00	E9 DF	02 00	3B 20	00 00
AUDIO SOURCE - USB TYPE A	Set	OFF	BE EF	03	06 00	76 DD	01 00	36 20	00 00
		AUDIO IN1	BE EF	03	06 00	E6 DC	01 00	36 20	01 00
		AUDIO IN2	BE EF	03	06 00	16 DC	01 00	36 20	02 00
		AUDIO USB TYPE A	BE EF	03	06 00	B6 D0	01 00	36 20	10 00
	Get		BE EF	03	06 00	45 DD	02 00	36 20	00 00
AUDIO SOURCE - USB TYPE B	Set	OFF	BE EF	03	06 00	AE DE	01 00	3C 20	00 00
		AUDIO IN1	BE EF	03	06 00	3E DF	01 00	3C 20	01 00
		AUDIO IN2	BE EF	03	06 00	CE DF	01 00	3C 20	02 00
		AUDIO USB TYPE B	BE EF	03	06 00	0E D2	01 00	3C 20	12 00
	Get		BE EF	03	06 00	9D DE	02 00	3C 20	00 00
AUDIO SOURCE - HDMI1	Set	OFF	BE EF	03	06 00	BA DD	01 00	33 20	00 00
		AUDIO IN1	BE EF	03	06 00	2A DC	01 00	33 20	01 00
		AUDIO IN2	BE EF	03	06 00	DA DC	01 00	33 20	02 00
		HDMI1	BE EF	03	06 00	7A C4	01 00	33 20	20 00
	Get		BE EF	03	06 00	89 DD	02 00	33 20	00 00
AUDIO SOURCE - HDMI2	Set	OFF	BE EF	03	06 00	52 DF	01 00	3D 20	00 00
		AUDIO IN1	BE EF	03	06 00	C2 DE	01 00	3D 20	01 00
		AUDIO IN2	BE EF	03	06 00	32 DE	01 00	3D 20	02 00
		HDMI2	BE EF	03	06 00	02 C7	01 00	3D 20	21 00
	Get		BE EF	03	06 00	61 DF	02 00	3D 20	00 00
AUDIO SOURCE - VIDEO	Set	AUDIO IN1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
		AUDIO IN2	BE EF	03	06 00	62 DD	01 00	31 20	02 00
		OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
	Get		BE EF	03	06 00	31 DC	02 00	31 20	00 00
AUDIO SOURCE - STANDBY	Set	AUDIO IN1	BE EF	03	06 00	7A DF	01 00	3F 20	01 00
		AUDIO IN2	BE EF	03	06 00	8A DF	01 00	3F 20	02 00
		OFF	BE EF	03	06 00	EA DE	01 00	3F 20	00 00
	Get		BE EF	03	06 00	D9 DE	02 00	3F 20	00 00

(continued on next page)

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header				Command Data			
					CRC	Action	Type	Setting code	
MIC VOLUME	Get	BE EF	03	06 00	75 F1	02 00	A2 20	00 00	
	Increment	BE EF	03	06 00	13 F1	04 00	A2 20	00 00	
	Decrement	BE EF	03	06 00	C2 F0	05 00	A2 20	00 00	
LANGUAGE	Set	ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00
		ESPAÑOL	BE EF	03	06 00	07 D3	01 00	05 30	03 00
		ITALIANO	BE EF	03	06 00	37 D1	01 00	05 30	04 00
		NORSK	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
		NEDERLANDS	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		简体中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00
		繁體中文	BE EF	03	06 00	37 DE	01 00	05 30	10 00
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00
		POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00
		TÜRKÇE	BE EF	03	06 00	07 D6	01 00	05 30	0F 00
		DANSK	BE EF	03	06 00	A7 DF	01 00	05 30	11 00
		ČESKY	BE EF	03	06 00	57 DF	01 00	05 30	12 00
		MAGYAR	BE EF	03	06 00	C7 DE	01 00	05 30	13 00
		ROMÂNĂ	BE EF	03	06 00	F7 DC	01 00	05 30	14 00
		SLOVENSKI	BE EF	03	06 00	67 DD	01 00	05 30	15 00
		HRVATSKI	BE EF	03	06 00	97 DD	01 00	05 30	16 00
		ΕΛΛΗΝΙΚΑ	BE EF	03	06 00	07 DC	01 00	05 30	17 00
		LIETUVIŲ	BE EF	03	06 00	F7 D9	01 00	05 30	18 00
		EESTI	BE EF	03	06 00	67 D8	01 00	05 30	19 00
		LATVIEŠU	BE EF	03	06 00	97 D8	01 00	05 30	1A 00
		ไทย	BE EF	03	06 00	07 D9	01 00	05 30	1B 00
		دېرغل دلا دلا	BE EF	03	06 00	37 DB	01 00	05 30	1C 00
		بکسراف	BE EF	03	06 00	A7 DA	01 00	05 30	1D 00
		PORTUGUÊS BRA	BE EF	03	06 00	57 DA	01 00	05 30	1E 00
		BAHASA IND	BE EF	03	06 00	C7 DB	01 00	05 30	1F 00
		TIENG VIET	BE EF	03	06 00	37 CA	01 00	05 30	20 00
	Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00	
	NOTE) Not all of the languages in this table are supported.								
MENU POSITION H	Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00	
	Increment	BE EF	03	06 00	62 D7	04 00	15 30	00 00	
	Decrement	BE EF	03	06 00	B3 D6	05 00	15 30	00 00	
MENU POSITION H Reset	Execute	BE EF	03	06 00	DC C6	06 00	43 70	00 00	
MENU POSITION V	Get	BE EF	03	06 00	40 D7	02 00	16 30	00 00	
	Increment	BE EF	03	06 00	26 D7	04 00	16 30	00 00	
	Decrement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00	
MENU POSITION V Reset	Execute	BE EF	03	06 00	A8 C7	06 00	44 70	00 00	

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RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
BLANK	Set	MyScreen	BE EF	03	06 00	FB CA	01 00	00 30	20 00
		ORIGINAL	BE EF	03	06 00	FB E2	01 00	00 30	40 00
		BLUE	BE EF	03	06 00	CB D3	01 00	00 30	03 00
		WHITE	BE EF	03	06 00	6B D0	01 00	00 30	05 00
	BLACK	BE EF	03	06 00	9B D0	01 00	00 30	06 00	
	Get	BE EF	03	06 00	08 D3	02 00	00 30	00 00	
BLANK On/Off	Set	OFF	BE EF	03	06 00	FB D8	01 00	20 30	00 00
		ON	BE EF	03	06 00	6B D9	01 00	20 30	01 00
	Get	BE EF	03	06 00	C8 D8	02 00	20 30	00 00	
AUTO BLANK	Set	BLUE	BE EF	03	06 00	67 D1	01 00	0D 30	03 00
		WHITE	BE EF	03	06 00	C7 D2	01 00	0D 30	05 00
		BLACK	BE EF	03	06 00	37 D2	01 00	0D 30	06 00
	Get	BE EF	03	06 00	A4 D1	02 00	0D 30	00 00	
START UP	Set	MyScreen	BE EF	03	06 00	CB CB	01 00	04 30	20 00
		ORIGINAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00
		OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
	Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00	
MyScreen Lock	Set	OFF	BE EF	03	06 00	3B EF	01 00	C0 30	00 00
		ON	BE EF	03	06 00	AB EE	01 00	C0 30	01 00
	Get	BE EF	03	06 00	08 EF	02 00	C0 30	00 00	
MESSAGE	Set	OFF	BE EF	03	06 00	8F D6	01 00	17 30	00 00
		ON	BE EF	03	06 00	1F D7	01 00	17 30	01 00
	Get	BE EF	03	06 00	BC D6	02 00	17 30	00 00	
TEMPLATE	Set	TEST PATTERN	BE EF	03	06 00	43 D9	01 00	22 30	00 00
		DOT-LINE1	BE EF	03	06 00	D3 D8	01 00	22 30	01 00
		DOT-LINE2	BE EF	03	06 00	23 D8	01 00	22 30	02 00
		DOT-LINE3	BE EF	03	06 00	B3 D9	01 00	22 30	03 00
		DOT-LINE4	BE EF	03	06 00	83 DB	01 00	22 30	04 00
		CIRCLE 1	BE EF	03	06 00	13 DA	01 00	22 30	05 00
		CIRCLE 2	BE EF	03	06 00	E3 DA	01 00	22 30	06 00
		MAP 1	BE EF	03	06 00	83 D4	01 00	22 30	10 00
	MAP 2	BE EF	03	06 00	13 D5	01 00	22 30	11 00	
Get	BE EF	03	06 00	70 D9	02 00	22 30	00 00		
TEMPLATE On/ Off	Set	OFF	BE EF	03	06 00	BF D8	01 00	23 30	00 00
		ON	BE EF	03	06 00	2F D9	01 00	23 30	01 00
	Get	BE EF	03	06 00	8C D8	02 00	23 30	00 00	
C. C. - DISPLAY	Set	OFF	BE EF	03	06 00	FA 62	01 00	00 37	00 00
		ON	BE EF	03	06 00	6A 63	01 00	00 37	01 00
		AUTO	BE EF	03	06 00	9A 63	01 00	00 37	02 00
	Get	BE EF	03	06 00	C9 62	02 00	00 37	00 00	
C. C. - MODE	Set	CAPTIONS	BE EF	03	06 00	06 63	01 00	01 37	00 00
		TEXT	BE EF	03	06 00	96 62	01 00	01 37	01 00
	Get	BE EF	03	06 00	35 63	02 00	01 37	00 00	
C. C. - CHANNEL	Set	1	BE EF	03	06 00	D2 62	01 00	02 37	01 00
		2	BE EF	03	06 00	22 62	01 00	02 37	02 00
		3	BE EF	03	06 00	B2 63	01 00	02 37	03 00
		4	BE EF	03	06 00	82 61	01 00	02 37	04 00
	Get	BE EF	03	06 00	71 63	02 00	02 37	00 00	

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header				Command Data		
							Action	Type	Setting code
AUTO SEARCH	Set	OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
		ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00
		Get	BE EF	03	06 00	85 D6	02 00	16 20	00 00
DIRECT POWER ON	Set	OFF	BE EF	03	06 00	3B 89	01 00	20 31	00 00
		ON	BE EF	03	06 00	AB 88	01 00	20 31	01 00
		Get	BE EF	03	06 00	08 89	02 00	20 31	00 00
AUTO POWER OFF		Get	BE EF	03	06 00	08 86	02 00	10 31	00 00
		Increment	BE EF	03	06 00	6E 86	04 00	10 31	00 00
		Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00
LAMP TIME		Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00
LAMP TIME Reset		Execute	BE EF	03	06 00	58 DC	06 00	30 70	00 00
FILTER TIME		Get	BE EF	03	06 00	C2 F0	02 00	A0 10	00 00
FILTER TIME Reset		Execute	BE EF	03	06 00	98 C6	06 00	40 70	00 00
MY BUTTON-1	Set	COMPUTER IN1	BE EF	03	06 00	3A 33	01 00	00 36	00 00
		COMPUTER IN2	BE EF	03	06 00	FA 31	01 00	00 36	04 00
		LAN	BE EF	03	06 00	0A 34	01 00	00 36	0B 00
		USB TYPE A	BE EF	03	06 00	9A 30	01 00	00 36	06 00
		USB TYPE B	BE EF	03	06 00	3A 36	01 00	00 36	0C 00
		HDMI1	BE EF	03	06 00	CA 33	01 00	00 36	03 00
		HDMI2	BE EF	03	06 00	AA 37	01 00	00 36	0D 00
		VIDEO	BE EF	03	06 00	AA 32	01 00	00 36	01 00
		SLIDESHOW	BE EF	03	06 00	9A 2B	01 00	00 36	22 00
		MY IMAGE	BE EF	03	06 00	5A 3D	01 00	00 36	16 00
		MESSENGER	BE EF	03	06 00	AA 29	01 00	00 36	25 00
		INFORMATION	BE EF	03	06 00	FA 3E	01 00	00 36	10 00
		MY MEMORY	BE EF	03	06 00	9A 3F	01 00	00 36	12 00
		ACTIVE IRIS	BE EF	03	06 00	AA 3D	01 00	00 36	15 00
		PICTURE MODE	BE EF	03	06 00	0A 3E	01 00	00 36	13 00
		FILTER RESET	BE EF	03	06 00	3A 3C	01 00	00 36	14 00
		RESOLUTION	BE EF	03	06 00	9A 3A	01 00	00 36	1E 00
		MIC VOLUME	BE EF	03	06 00	9A 24	01 00	00 36	36 00
		ECO MODE	BE EF	03	06 00	0A 25	01 00	00 36	37 00
		SAVER MODE	BE EF	03	06 00	6A 21	01 00	00 36	39 00
		Get	BE EF	03	06 00	09 33	02 00	00 36	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting code
MY BUTTON-2	Set	COMPUTER IN1	BE EF	03	06 00	C6 32	01 00	01 36	00 00
		COMPUTER IN2	BE EF	03	06 00	06 30	01 00	01 36	04 00
		LAN	BE EF	03	06 00	F6 35	01 00	01 36	0B 00
		USB TYPE A	BE EF	03	06 00	66 31	01 00	01 36	06 00
		USB TYPE B	BE EF	03	06 00	C6 37	01 00	01 36	0C 00
		HDMI1	BE EF	03	06 00	36 32	01 00	01 36	03 00
		HDMI2	BE EF	03	06 00	56 36	01 00	01 36	0D 00
		VIDEO	BE EF	03	06 00	56 33	01 00	01 36	01 00
		SLIDESHOW	BE EF	03	06 00	66 2A	01 00	01 36	22 00
		MY IMAGE	BE EF	03	06 00	A6 3C	01 00	01 36	16 00
		MESSENGER	BE EF	03	06 00	56 28	01 00	01 36	25 00
		INFORMATION	BE EF	03	06 00	06 3F	01 00	01 36	10 00
		MY MEMORY	BE EF	03	06 00	66 3E	01 00	01 36	12 00
		ACTIVE IRIS	BE EF	03	06 00	56 3C	01 00	01 36	15 00
		PICTURE MODE	BE EF	03	06 00	F6 3F	01 00	01 36	13 00
		FILTER RESET	BE EF	03	06 00	C6 3D	01 00	01 36	14 00
		RESOLUTION	BE EF	03	06 00	66 3B	01 00	01 36	1E 00
	MIC VOLUME	BE EF	03	06 00	66 25	01 00	01 36	36 00	
	ECO MODE	BE EF	03	06 00	F6 24	01 00	01 36	37 00	
	SAVER MODE	BE EF	03	06 00	96 20	01 00	01 36	39 00	
Magnify Position H	Get	BE EF	03	06 00	F5 32	02 00	01 36	00 00	
	Get	BE EF	03	06 00	C8 D7	02 00	10 30	00 00	
	Increment	BE EF	03	06 00	AE D7	04 00	10 30	00 00	
	Decrement	BE EF	03	06 00	7F D6	05 00	10 30	00 00	
Magnify Position V	Get	BE EF	03	06 00	34 D6	02 00	11 30	00 00	
	Increment	BE EF	03	06 00	52 D6	04 00	11 30	00 00	
	Decrement	BE EF	03	06 00	83 D7	05 00	11 30	00 00	
REMOTE FRONT	Set	OFF	BE EF	03	06 00	FF 32	01 00	00 26	00 00
		ON	BE EF	03	06 00	6F 33	01 00	00 26	01 00
	Get	BE EF	03	06 00	CC 32	02 00	00 26	00 00	
REMOTE TOP	Set	OFF	BE EF	03	06 00	47 33	01 00	02 26	00 00
		ON	BE EF	03	06 00	D7 32	01 00	02 26	01 00
	Get	BE EF	03	06 00	74 33	02 00	02 26	00 00	
REMOTE FREQ. NORMAL	Set	OFF	BE EF	03	06 00	FF 3D	01 00	30 26	00 00
		ON	BE EF	03	06 00	6F 3C	01 00	30 26	01 00
	Get	BE EF	03	06 00	CC 3D	02 00	30 26	00 00	
REMOTE FREQ. HIGH	Set	OFF	BE EF	03	06 00	03 3C	01 00	31 26	00 00
		ON	BE EF	03	06 00	93 3D	01 00	31 26	01 00
	Get	BE EF	03	06 00	30 3C	02 00	31 26	00 00	

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header				Command Data		
					CRC	Action	Type	Setting code
MY IMAGE	Set	OFF	BE EF	03	06 00	3A C3	01 00	00 35
		IMAGE-1	BE EF	03	06 00	AA C2	01 00	00 35
		IMAGE-2	BE EF	03	06 00	5A C2	01 00	00 35
		IMAGE-3	BE EF	03	06 00	CA C3	01 00	00 35
		IMAGE-4	BE EF	03	06 00	FA C1	01 00	00 35
	Get		BE EF	03	06 00	09 C3	02 00	00 35
MY IMAGE IMAGE-1 Delete	Execute		BE EF	03	06 00	71 C3	06 00	01 35
MY IMAGE IMAGE-2 Delete	Execute		BE EF	03	06 00	35 C3	06 00	02 35
MY IMAGE IMAGE-3 Delete	Execute		BE EF	03	06 00	C9 C2	06 00	03 35
MY IMAGE IMAGE-4 Delete	Execute		BE EF	03	06 00	BD C3	06 00	04 35
VOLUME - ALL	Get		BE EF	03	06 00	CD C3	02 00	50 20
	Increment		BE EF	03	06 00	AB C3	04 00	50 20
	Decrement		BE EF	03	06 00	7A C2	05 00	50 20
LAN SOUND ENABLE	Set	Disable	BE EF	03	06 00	BA F0	01 00	A3 20
		Enable	BE EF	03	06 00	2A F1	01 00	A3 20
	Get		BE EF	03	06 00	89 F0	02 00	A3 20
USB TYPE A SOUND ENABLE	Set	Disable	BE EF	03	06 00	CE F1	01 00	A4 20
		Enable	BE EF	03	06 00	5E F0	01 00	A4 20
	Get		BE EF	03	06 00	FD F1	02 00	A4 20
USB TYPE B SOUND ENABLE	Set	Disable	BE EF	03	06 00	32 F0	01 00	A5 20
		Enable	BE EF	03	06 00	A2 F1	01 00	A5 20
	Get		BE EF	03	06 00	01 F0	02 00	A5 20
IWB MANUAL CALIBRATE	Execute		BE EF	03	06 00	89 93	06 00	50 21
IWB AUTO CALIBRATE	Execute		BE EF	03	06 00	75 92	06 00	51 21
IWB MODE COMPUTER IN1	Set	OFF	BE EF	03	06 00	3E AE	01 00	90 21
		STAND ALONE	BE EF	03	06 00	AE AF	01 00	90 21
		WITH PC	BE EF	03	06 00	5E AF	01 00	90 21
	Get		BE EF	03	06 00	0D AE	02 00	90 21
IWB MODE COMPUTER IN2	Set	OFF	BE EF	03	06 00	0E AF	01 00	94 21
		STAND ALONE	BE EF	03	06 00	9E AE	01 00	94 21
		WITH PC	BE EF	03	06 00	6E AE	01 00	94 21
	Get		BE EF	03	06 00	3D AF	02 00	94 21
IWB MODE USB TYPE A	Set	OFF	BE EF	03	06 00	B6 AE	01 00	96 21
		STAND ALONE	BE EF	03	06 00	26 AF	01 00	96 21
		WITH PC	BE EF	03	06 00	D6 AF	01 00	96 21
	Get		BE EF	03	06 00	85 AE	02 00	96 21

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header					Command Data		
						CRC	Action	Type	Setting code
IWB MODE HDMI1	Set	OFF	BE EF	03	06 00	7AAE	01 00	93 21	00 00
		STAND ALONE	BE EF	03	06 00	EAAF	01 00	93 21	01 00
		WITH PC	BE EF	03	06 00	1AAF	01 00	93 21	02 00
	Get		BE EF	03	06 00	49AE	02 00	93 21	00 00
IWB MODE HDMI2	Set	OFF	BE EF	03	06 00	92AC	01 00	9D 21	00 00
		STAND ALONE	BE EF	03	06 00	02AD	01 00	9D 21	01 00
		WITH PC	BE EF	03	06 00	F2AD	01 00	9D 21	02 00
	Get		BE EF	03	06 00	A1AC	02 00	9D 21	00 00
IWB MODE VIDEO	Set	OFF	BE EF	03	06 00	C2AF	01 00	91 21	00 00
		STAND ALONE	BE EF	03	06 00	52AE	01 00	91 21	01 00
		WITH PC	BE EF	03	06 00	A2AE	01 00	91 21	02 00
	Get		BE EF	03	06 00	F1AF	02 00	91 21	00 00

PJLink command

Commands	Control Description	Parameter or Response
POWR	Power Control	0 = Standby
		1 = Power On
POWR ?	Power Status inquiry	0 = Standby
		1 = Power On
		2 = Cool Down
INPT	Input Source selection	11 = COMPUTER IN 1
		12 = COMPUTER IN 2
		23 = VIDEO
		31 = HDMI1
		33 = HDMI2
		41 = USB TYPE A
		51 = LAN
INPT ?	Input Source inquiry	52 = USB TYPE B
		11 = COMPUTER IN 1
		12 = COMPUTER IN 2
		23 = VIDEO
		31 = HDMI1
		33 = HDMI2
		41 = USB TYPE A
AVMT	AV Mute	51 = LAN
		52 = USB TYPE B
		10 = BLANK off
		11 = BLANK on
		20 = Mute off
		21 = Mute on
AVMT ?	AV Mute inquiry	30 = AV Mute off
		31 = AV Mute on
		10 = BLANK off
		11 = BLANK on
		20 = Mute off
		21 = Mute on
		30 = AV Mute off
		31 = AV Mute on

PJLink command (continued)

Commands	Control Description	Parameter or Response
ERST ?	Error Status inquiry	1st byte: Refers to Fan error; one of 0 to 2
		2nd byte: Refers to Lamp error; one of 0 to 2
		3rd byte: Refers to Temperature error; one of 0 to 2
		4th byte: Refers to Cover error; one of 0 to 2
		5th byte: Refers to Filter error; one of 0 to 2
		6th byte: Refers to Other error; one of 0 to 2
		The meaning of 0 to 2 is as given below 0 = Error is not detected; 1 = Warning; 2 = Error
LAMP ?	Lamp Status inquiry	1st number (digits 1 to 5): Lamp Time
		2nd number : 0 = Lamp off, 1 = Lamp on
INST ?	Input Source List inquiry	11 12 23 31 33 41 51 52
NAME ?	Projector Name inquiry	Responds with the name set in "PROJECTOR NAME" of "NETWORK"
INF1 ?	Manufacturer's Name inquiry	HITACHI
INF2 ?	Model Name inquiry	CP-TW2503
		CP-TW3003
INFO ?	Other Information inquiry	Responds with the factory information and so on
CLSS ?	Class Information inquiry	1

NOTE • The password used in PJLink™ is the same as the password set in the Web Browser Control. To use PJLink™ without authentication, do not set any password in Web Browser Control.

• For specifications of PJLink™, see the web site of the Japan Business Machine and Information System Industries Association.

URL: <http://pjlink.jbmia.or.jp/>