

RS232 Command List For All Products

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RS232 Commands

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RS232 Command List

For BenQ:

RP552

RP552H

RP840G

RP653

RP703

RP750

RP750K

Applicable for All Regions

Version: 02 Date:2016/03/30

1. Application

This document defines the RS232 communications method for control the BenQ Interactive Flat Panels when using a remote controller.

2. Preparation Connectors and wiring

Connector: 9-pin D-sub Cable: Direct cable

ConnectionMonitor + PC

3. Communication specification

Communication Parameter

RS-232C Remote control

(1) InterfaceRS-232C(2) Baud rate9600bps(3) Data length8bits(4) ParityNone(5) Stop bit1 bit

4. Format of data for communication via serial port

Protocol (With ID))						_				
1 Length (1 by	yte): Total by	te of messa	ge excluding	"CR"							
			0x39 for Leng		for Length=	10.					
2 ID (2 byte):	Identification	for each of	the monitor								
, ,	Set comma	nd with ID="	99" (0x39 0x	39) will doe	the settings	to all monitor	s, and it will	not have rep	ly command	1.	
	If the comm	unication is	between LAI	N chip and S	Sacler chip, t	he ID should	be always "C	1" (0x30 0x3	31)		
3 Command	Type (1 byte))									
	0x73 ('s'): S	et command	b								
	0x67 ('g'): G	et comman	d								
	0x72 ('r'): R	eply comma	nd								
	0x2B ('+'): \	/alid comma	and reply								
	0x2D ('-'): In	valid comm	and reply								
		Possible in	valid condition	n (1) Comn	nand Code r	ot support (2) Packet len	gth is wrong	(3) Value is	out of expe	cted range
4 Command (Code (1 byte	e)									
5 Value (at lea	ast 3 byte)										
6 CR (1 byte):	: 0x0D										

command											
Send Com	mand: Length (1 byte) +	ID (2 byte) + (Cmd Type (1	byte) + Cmo	Code(1 by	yte) + Value(>	=3 byte) + CF	R (1 byte)			
	Ex: Set Brightness as	76 for ID-02 at	nd this comm	and is valid							
	Send pack	ke <u>t</u>									
		Byte	0	11	2	3	4	5	6	7	8
		Name	Length	ı	D	Cmd Type	Cmd Code		Value		CR
			, and the second			, ,		Byte1	Byte2	Byte3	
		Hex	0x38	0x30	0x32	0x73	0x24	0x30	0x37	0x36	0x0E
	Return pag										
		Byte	0	1	2	3	4				
		Name	Length)	Cmd Type	CR				
		Hex	0x34	0x30	0x32	0x2B	0x0D				
	Ex: Set Brightness as		and this com	mand is inva	ılid						
		Byte	0	1	2	3	4	5	6	7	8
		Nama	Longith		D	Cred Turns	Crad Code		Value		CR
		Name	Length	II.	J	Cmd Type	Cmd Code	Byte1	Byte2	Byte3	CR
		Hex	0x38	0x30	0x32	0x73	0x24	0x31	0x37	0x36	0x0I
	Return pag	cket									
	·	Byte	0	1	2	3	4				
		Byte Name	0 Length	1	2	3 Cmd Type	4 CR				
				1 0x30							
	Ex: Set Brightness as	Name Hex	Length 0x34	-		Cmd Type	CR				
		Name Hex 76 for all moni	Length 0x34	-		Cmd Type	CR				
	Ex: Set Brightness as	Name Hex 76 for all moni	Length 0x34	-		Cmd Type	CR	5	6	7	8
	Ex: Set Brightness as	Name Hex 76 for all moniket Byte	Length 0x34 tors	0x30 1	0x32	Cmd Type 0x2D	CR 0x0D	-	6 Value	7	
	Ex: Set Brightness as	Name Hex 76 for all moni	Length 0x34 tors	0x30 1	0x32	Cmd Type 0x2D	CR 0x0D	5 Byte1 0x30	_	7 Byte3 0x36	8 CR 0x0I

Get command												
Send Com	mand: Length	n (1 byte) + ID	(2 byte) + (Cmd Type (1	byte) + Cmo	d Code(1 by	/te) + Value(>	=3 byte) + Cl	R (1 byte)			
	Ex: Get Brig	htness from	ID-05 and th	nis command	is valid, and	I the Brightr	ness value is 6	67.				
		Send packe	t									
			Byte	0	1	2	3	4	5	6	7	8
			Name	Length		D	Cmd Type	Cmd Code		Value	•	CR
			INAITIE	Lengui	"	5	Cilia Type	Cilia Code	Byte1	Byte2	Byte3	CK
			Hex	0x38	0x30	0x35	0x67	0x62	0x30	0x30	0x30	0x0D
		Return pack	et									
			Byte	0	1	2	3	4	5	6	7	8
			Name	Longth		<u> </u>	Cmd Time	Cmd Codo		Value	-	CR
			ivairie	Length	"	ט	Cilia Type	Cmd Code	Byte1	Byte2	Byte3	CK
			Hex	0x38	0x30	0x35	0x72	0x62	0x30	0x36	0x37	0x0D

Prof	tocol (Without ID)											
1	The without ID protocol	only supports	the set com	mand.								
2	2 There is no ID at the command packet, and there is no return packet even the command is invalid.											
3	Length (1 byte): Total b	ytes of messa	ige = 5 ASC	II (35H) exclu	uding "CR"							
	Ex: Set Br	ightness as 76	6									
		Send packe	t									
			Byte	0	1	2	3	4	5			
			Name	Longth	Cmd Code		Value		CR			
			ivallie	Length	Cilia Code	Byte1	Byte2	Byte3	CK			
			Hex	0x35	0x24	0x30	0x37	0x36	0x0D			

5. Command List – Set command

Set Function	Len	ID	Cmd	Cmd		
▼		T	Туре	Code (Hex) <u></u>	RS232 (ASCII Bytes)	Send Set Command (HEX)
Power	8		s	21	000 : Blank	38 30 31 73 21 30 30 30 0D
			-		001 : On	38 30 31 73 21 30 30 31 0D
					002 : Standby (or android off)	38 30 31 73 21 30 30 32 0D
Video Source	8		S	22	000 : VGA	38 30 31 73 22 30 30 30 0D
					001 : HDMI1	38 30 31 73 22 30 30 31 0D
					002: HDMl2	38 30 31 73 22 30 30 32 0D
					003 : AV	38 30 31 73 22 30 30 33 0D
					021 : HDMl3	38 30 31 73 22 30 32 31 0D
					022 : HDMI4 (for 4K model)	38 30 31 73 22 30 32 32 0D
					031 : VGA2	38 30 31 73 22 30 33 31 0D
					032 : VGA3	38 30 31 73 22 30 33 32 0D
					101 : android	38 30 31 73 22 31 30 31 0D
					103 : Slot in PC	38 30 31 73 22 31 30 33 0D
Contrast	8		S	23	000 ~ 100	38 30 31 73 23 30 30 30 0D ~ 38 30 31 73 23 31 30 30 0D
Brightness	8		S	24	000 ~ 100	38 30 31 73 24 30 30 30 0D ~ 38 30 31 73 24 31 30 30 0D
Sharpness	8		S	25	000 ~	38 30 31 73 25 30 30 30 0D ~ 38 30 31 73 25 31 30 30 0D
Aspect Ratio	8		S	31	000 : 16:9	38 30 31 73 31 30 30 30 0D
					001 : 4:3	38 30 31 73 31 30 30 31 0D
					002 : PTP	38 30 31 73 31 30 30 32 0D
Language	8		S	32	000: English	38 30 31 73 32 30 30 30 0D
					001: Français	38 30 31 73 32 30 30 31 0D
					002: Español	38 30 31 73 32 30 30 32 0D
					003: 繁中	38 30 31 73 32 30 30 33 0D
	-				004: 简中	
	-					38 30 31 73 32 30 30 34 0D
	-				005: Português	38 30 31 73 32 30 30 35 0D
					006: German	38 30 31 73 32 30 30 36 0D
					007: Dutch	38 30 31 73 32 30 30 37 0D
					008: Polish	38 30 31 73 32 30 30 38 0D
					009: Russia	38 30 31 73 32 30 30 39 0D
					010:Czech	38 30 31 73 32 30 31 30 0D
					011:Danish	38 30 31 73 32 30 31 31 0D
					012:Swedish	38 30 31 73 32 30 31 32 0D
					013:ltalian	38 30 31 73 32 30 31 33 0D
					014:Romanian	38 30 31 73 32 30 31 34 0D
					015:Norwegian	38 30 31 73 32 30 31 35 0D
	-				016:Finnish	38 30 31 73 32 30 31 36 0D
	\vdash				017:Greek	38 30 31 73 32 30 31 37 0D
					018:Turkish	38 30 31 73 32 30 31 38 0D
	\sqcup				019:Arabic	38 30 31 73 32 30 31 39 0D
					020:Japanse	38 30 31 73 32 30 32 30 0D
Sound Mode	8		S	33	000 : Movie	38 30 31 73 33 30 30 30 0D
					001 : Standard	38 30 31 73 33 30 30 31 0D
					002 : Custom	38 30 31 73 33 30 30 32 0D
					003 : Classroom	38 30 31 73 33 30 30 33 0D
					004 : Meeting	38 30 31 73 33 30 30 34 0D
Volume	8		S	35	000 ~ 100	38 30 31 73 35 30 30 30 0D ~ 38 30 31 73 35 31 30 30 0D
Mute	8		S	36	000: Off	38 30 31 73 36 30 30 30 0D
					001: On	38 30 31 73 36 30 30 31 0D
Treble	8		S	37	000~100	38 30 31 73 37 30 30 30 0D ~ 38 30 31 73 37 31 30 30 0D
Bass	8		S	38	000~100	38 30 31 73 38 30 30 30 0D ~ 38 30 31 73 38 31 30 30 0D
Balance	8		S	39	000~100	38 30 31 73 39 30 30 30 0D ~ 38 30 31 73 39 31 30 30 0D

Set Function	Len	Cmd	Cmd		
		Туре	Code	RS232 (ASCII Bytes)	Send Set Command (HEX)
▼	-	~	(He)		
Reomte comtrol	8	S	40	000 : Vol +	38 30 31 73 40 30 30 30 0D
command				001 : Vol -	38 30 31 73 40 30 30 31 0D
				010 : Remote 上	38 30 31 73 40 30 31 30 0D
				011 : Remote 下	38 30 31 73 40 30 31 31 0D
				012 : Remote 左	38 30 31 73 40 30 31 32 0D
				013 : Remote 右	38 30 31 73 40 30 31 33 0D
				014 : Remote OK	38 30 31 73 40 30 31 34 0D
				020 : Remote Menu Key	38 30 31 73 40 30 32 30 0D
				021 : Remote Input source	38 30 31 73 40 30 32 31 0D
				022 : Remote Exit	38 30 31 73 40 30 32 32 0D
				031 : Blank	38 30 31 73 40 30 33 31 0D
				032 : Freeze	38 30 31 73 40 30 33 32 0D
IR Control	8	S	42	000: Disable	38 30 31 73 42 30 30 30 0D
				001: Enable	38 30 31 73 42 30 30 31 0D
Button&IR Control	8	S	43	000: Disable	38 30 31 73 43 30 30 30 0D
				001: Enable	38 30 31 73 43 30 30 31 0D
Button Control	8	S	45	000: Disable	38 30 31 73 45 30 30 30 0D
				001: Enable	38 30 31 73 45 30 30 31 0D
Image Retention	8	S	47	000: Off	38 30 31 73 47 30 30 30 0D
				001: On	38 30 31 73 47 30 30 31 0D
Chroma (Color)	8	S	82	000 ~ 050	38 30 31 73 82 30 30 30 0D
Backlight	8	S	84	000 ~ 100	38 30 31 73 82 30 30 31 0D
Color Temp	8	S	86	000 : Cool	38 30 31 73 86 30 30 30 0D
				001 : Standard	38 30 31 73 86 30 30 31 0D
				002 : Classroom	38 30 31 73 86 30 30 32 0D
Auto Adjustment Execute	8	S	8F	<	38 30 31 73 8F 30 30 30 0D
RTC Year	8	S	98	000 ~ 099	38 30 31 73 98 30 30 30 0D ~ 38 30 31 73 98 30 39 39 0D
RTC Month	8	S	99	001 ~ 012	38 30 31 73 99 30 30 31 0D ~ 38 30 31 73 99 30 31 32 0D
RTC Day	8	S	9A	001 ~ 031	38 30 31 73 9A 30 30 31 0D ~ 38 30 31 73 9A 30 31 32 0D
RTC Hour	8	S	9B	000 ~ 023	38 30 31 73 9B 30 30 30 0D ~ 38 30 31 73 9B 30 32 33
RTC Minute	8	S	9C	000 ~ 059	38 30 31 73 9C 30 30 30 0D ~ 38 30 31 73 9C 30 35 39

Set Function		Len	Cmd	Cmd		
			Туре	Code	RS232 (ASCII Bytes)	Send Set Command (HEX)
	*	~	-	(He) ▼	, ,	, ,
On/Off Timer		14	S	E0	Byte1~Byte9	
					(1) Byte1: Decide which Timer is	
					selected, and its enable/disable	
					setting.	
					Byte1[3:0]=0x1~0x07. There are	
					totally 7 Timers, this value is	
					used to decide which Timer is	
					selected.	
					Byte1[7]: Reserved, should be 0.	
					Byte1[6]: The Timer is enable or	
					not. Byte1[6]=1 means enable.	
					Byte1[5]: The On Timer is enable	
					or not. Byte1[5]=1 means enable.	
					Byte1[4]: The Off Timer is enable	
					or not. Byte1[4]=1 means enable.	
					(2) Byte2: The Day of the On/Off	
					Timer. bit0 for Sunday, bit1 for	
					Monday, bit2 for Tuesday, bit3	
					for Wednesday, bit4 for	
					Thursday, bit5 for Friday, bit6 for	
					Saturday, bit7 for Everday.	
					(3) Byte3: The Hour of the On	
					Timer. Byte3=0x00~0x17.	
					(4) Byte4: The Minute of the On	
					Timer. Byte4=0x00~0x3B.	
					(5) Byte5: The Hour of the Off	
					Timer. Byte5=0x00~0x17.	

6. Command List – Get command

				iu List – Get com	mana	T
Get Function	Len	Cm d [™]	Cmd Cod∈▼	RS232	Send Get Command MDA to Device	System Reply Command message
Model Info	20	g	20	(1) Input value: Byte1 - Byte2 - Byte3 Byte15 Byte2~Byte11=0x00 Byte1=0x01: Get Customer Name	Get Customer Name : 44 30 31 67 20 01 00 00 00 00 00 00 00 00 00 00 00 00	44 30 31 72 20 01 42 45 4E 51 00 00 00 00 00 00 00 00 00 00 00 0D
				Byte1=0x02: Get Customer Model Name Byte1=0x04: Get Scaler Firmware Version	Get Model Name : 44 30 31 67 20 02 00 00 00 00 00 00 00 00 00 00 00	ST550K: 44 30 31 72 20 02 52 50 35 35 32 00 00 00 00 00 00 00 00 0D
				Byte1=0x05: Get LAN Firmware Version Byte1=0x06: Get Serial Number	Get SW version: 44 30 31 67 20 04 00 00 00 00 00 00 00 00 00 00 00 00	40 30 31 72 20 04 31 2E 30 2E 35 00 00 00 00 00 00 00 00 00 00 00 00
				(2) Return value: Byte1 - Byte2 - Byte3 Byte15 The Byte1 value at the return value should be the same as the value of	Get Serial Number : 44 30 31 67 20 06 00 00 00 00 00 00 00 00 00 00 00 00	44 30 31 72 20 06 45 49 50 33 46 30 30 30 35 32 30 32 45 00 0D
				Byte1 at input value. Byte2~Byte15 should be ASCII format. Ex: If Customer=Generic, Byte1=0x01, Byte2='G', Byte3='e',Byte8='c', Byte9~Byte11=0x00. Ex: If the Scaler Firmware Version=1.02, Byte1=0x03, Byte2='1', Byte3='', Byte4='0', Byte5='2', Byte6-Byte11=0x00.		
Signal Status	8	g	22	000: Signal unstable	38 30 31 67 22 30 30 30 0D	38 30 31 72 22 30 30 30 0D
-	_		07	001: Signal stable (Active Sync exists)		38 30 31 72 22 30 30 31 0D
Treble	8	g	37	000~100	38 30 31 67 37 30 30 30 0D	38 30 31 72 37 30 30 30 0D ~ 38 30 31 72 37 31 30
Bass	8	g	38	000~100	38 30 31 67 38 30 30 30 0D	38 30 31 72 38 30 30 30 0D ~ 38 30 31 72 38 31 30
Balance	8	g	39	000~100	38 30 31 67 39 30 30 30 0D	38 30 31 72 39 30 30 30 0D ~ 38 30 31 72 39 31 30
Contrast	8	g	61	000 ~ 100	38 30 31 67 61 30 30 30 0D	38 30 31 72 61 30 30 30 0D ~ 38 30 31 72 61 31 30
Brightness	8	g	62	000 ~ 100	38 30 31 67 62 30 30 30 0D	38 30 31 72 62 30 30 30 0D ~ 38 30 31 72 62 31 30
Sharpness	8	g	63	000 ~ 020	38 30 31 67 63 30 30 30 0D	38 30 31 72 63 30 30 30 0D ~ 38 30 31 72 63 31 30
Sound Mode	8	g	65	000 : Movie		38 30 31 72 65 30 30 30 0D
				001 : Standard	00 00 04 07 05 00 00 00	38 30 31 72 65 30 30 31 0D
				002 : Custom	38 30 31 67 65 30 30 30 0D	38 30 31 72 65 30 30 32 0D
				003 : Classroom		38 30 31 72 65 30 30 33 0D
	_			004 : Meeting		38 30 31 72 65 30 30 34 0D
Volume	8	g	66	000 ~ 100	38 30 31 67 66 30 30 30 0D	38 30 31 72 66 30 30 30 0D ~ 38 30 31 72 66 31 30
Mute	8	g	67	000: Off	38 30 31 67 67 30 30 30 0D	38 30 31 72 67 30 30 30 0D
ID Control	_		60	001: On	20 20 24 67 60 20 20 20 20	38 30 31 72 67 30 30 31 0D
IR Control	8	g	68	000: Disable	38 30 31 67 68 30 30 30 0D	38 30 31 72 68 30 30 30 0D
Dutte - 0 ID	_	-	60	001: Enable		38 30 31 72 68 30 30 31 0D
Button&IR	8	g	69	000: Disable	38 30 31 67 69 30 30 30 0D	38 30 31 72 69 30 30 30 0D
Control	0	_	6.4	001: Enable		38 30 31 72 69 30 30 30 0D 38 30 31 72 6A 30 30 30 0D
Video Source	8	g	6A	000 : VGA		
				001 : HDMI1		38 30 31 72 6A 30 30 31 0D
				002: HDMl2		38 30 31 72 6A 30 30 32 0D
				003 : CVBS / AV		38 30 31 72 6A 30 30 33 0D
				021 : HDMl3 022 : HDMl4 (for 4K Model)	38 30 31 67 6A 30 30 30 0D	38 30 31 72 6A 30 32 31 0D 38 30 31 72 6A 30 32 32 0D
				031 : VGA2	00 00 01 01 01 00 00 00 00	38 30 31 72 6A 30 32 32 0D 38 30 31 72 6A 30 33 31 0D
				031: VGA2 032: VGA3		38 30 31 72 6A 30 33 31 0D 38 30 31 72 6A 30 33 32 0D
				052 : VGAS 051 : TV		38 30 31 72 6A 30 35 32 0D 38 30 31 72 6A 30 35 31 0D
				101 : android		38 30 31 72 6A 31 30 31 0D
				103 : Slot in PC		38 30 31 72 6A 31 30 31 0D
Power	8	g	6C	100.0000000		38 30 31 72 6C 30 30 30 0D
	Ť	9		001 : On	38 30 31 67 6C 30 30 30 0D	38 30 31 72 6C 30 30 31 0D
				002 : Standby (or android off)	22 22 27 27 22 22 22 22 22 22	38 30 31 72 6C 30 30 32 0D
				552 . Standby (or android on)	l	00 00 07 72 00 00 00 02 00

Get Function	Len	Cm	Cmd Code [▼]	RS232	Send Get Command MDA to Device	System Reply Command message
Image	8	g	72	000: Off	00 00 04 07 70 00 00 00	38 30 31 72 72 30 30 30 0D
Retention		Ť		001: On	38 30 31 67 72 30 30 30 0D	38 30 31 72 72 30 30 31 0D
Button Control	8	q	73	000: Disable	00 00 04 07 70 00 00 00	38 30 31 72 73 30 30 30 0D
				001: Enable	38 30 31 67 73 30 30 30 0D	38 30 31 72 73 30 30 31 0D
Aspect Ratio	8	q	77	000 : 16:9		38 30 31 72 77 30 30 30 0D
•		Ü		001 : 4:3	38 30 31 67 77 30 30 30 0D	38 30 31 72 77 30 30 31 0D
				002 : PTP		38 30 31 72 77 30 30 32 0D
Language	8	q	78	000: English		38 30 31 72 78 30 30 30 0D
33.				001: Français		38 30 31 72 78 30 30 31 0D
				002: Español		38 30 31 72 78 30 30 32 0D
				003: 繁中		38 30 31 72 78 30 30 33 0D
				004: 简中		38 30 31 72 78 30 30 34 0D
				005: Português		38 30 31 72 78 30 30 35 0D
				006: German		38 30 31 72 78 30 30 36 0D
				007: Dutch		38 30 31 72 78 30 30 37 0D
				008: Polish		38 30 31 72 78 30 30 38 0D
				009: Russia		38 30 31 72 78 30 30 39 0D
				010:Czech	38 30 31 67 78 30 30 30 0D	38 30 31 72 78 30 31 30 0D
				011:Danish	38 30 31 67 78 30 30 30 00	38 30 31 72 78 30 31 31 0D
				012:Swedish		38 30 31 72 78 30 31 32 0D
				013:Italian		38 30 31 72 78 30 31 32 0D
				014:Romanian		38 30 31 72 78 30 31 34 0D
				015:Norwegian		38 30 31 72 78 30 31 34 0D
				016:Finnish		38 30 31 72 78 30 31 36 0D
				017:Greek		38 30 31 72 78 30 31 37 0D
				018:Turkish		38 30 31 72 78 30 31 38 0D
				019:Arabic		38 30 31 72 78 30 31 39 0D
				020:Japanse		38 30 31 72 78 30 32 30 0D
Chroma (Color)	8	g	B2	000 ~ 050	38 30 31 67 B2 30 30 30 0D	38 30 31 72 B2 30 30 30 0D ~ 38 30 31 72 B2 30 35
	_					30 0D
Backlight	8	g	B4	000 ~ 100	38 30 31 67 B4 30 30 30 0D	38 30 31 72 B4 30 30 30 0D ~ 38 30 31 72 B4 31 30
O-1T	•		D.C.	000 : 01		30 0D
Color Temp	8	g	В6	000 : Cool	00 00 04 07 00 00 00 00	38 30 31 72 B6 30 30 30 0D
				001 : Standard	38 30 31 67 B6 30 30 30 0D	38 30 31 72 B6 30 30 31 0D
5=5.1/	_			002 : Classroom		38 30 31 72 B6 30 30 32 0D
RTC Year	8	g	C8	000 ~ 099	38 30 31 67 C8 30 30 30 0D	38 30 31 72 C8 30 30 30 0D ~ 38 30 31 72 C8 30 39 39 0D
RTC Month	8	g	C9	001 ~ 012	38 30 31 67 C9 30 30 30 0D	38 30 31 72 C9 30 30 31 0D ~ 38 30 31 72 C9 30 31 32 0D
RTC Day	8	g	CA	001 ~ 031	38 30 31 67 CA 30 30 30 0D	38 30 31 72 CA 30 30 31 0D ~ 38 30 31 72 CA 30 33 31 0D
RTC Hour	8	g	СВ	000 ~ 023	38 30 31 67 CB 30 30 30 0D	38 30 31 72 CB 30 30 30 0D ~ 38 30 31 72 CB 30 32 33 0D
RTC Minute	8	g	CC	000 ~ 059	38 30 31 67 CC 30 30 30 0D	38 30 31 72 CC 30 30 30 0D ~ 38 30 31 72 CC 30 35 39 0D

Get Function	Len	Cm d Typ	Cmd Code (Hex)	RS232	Send Get Command MDA to Device	System Reply Command message
On/Off Timer	14	g		input value: Byte1 - Byte2 - Byte3Byte9 (1) Byte1[3:0]: The Number of the On/Off Timer. There are totally 7 On/Off Timers, and this byte is used to selected which timer is going to be accessed. (2) Byte1[7:4] is reserved, should be 0. (3) Byte2-9 are reserverd, should be 0x00.		
				Return value: Byte1 - Byte2 - Byte3Byte9 (1) Byte1[3:0]: Should retuen the same value as Byte1 at Input value. Byte1[7]: Reserved, should be 0. Byte1[6]: The Timer is enable or not. Byte1[6]=1 means enable. Byte1[6]: The Timer is enable or not. Byte1[6]=1 means enable. Byte1[6]: The Off Timer is enable or not. Byte1[6]=1 means enable. Byte1[6]: The Off Timer is enable or not. Byte1[4]=1 means enable. (2) Byte2: The Day of the On'Off Timer. bit0 for Sunday, bit1 for Monday, bit2 for Tuesday, bit3 for Wednesday, bit4 for Thursday, bit6 for Saturday, bit7 for Everday. (3) Byte3: The Hour of the On Timer. Byte3=0x00=0x17. (4) Byte4: The Minute of the On Timer. Byte3=0x00=0x17. (6) Byte6: The Minute of the Off Timer. Byte5=0x00=0x17. (7) Byte7: Select the Video Source. 0x00=VGA, 0x01=HDMI1, 0x02=HDMI2, 0x03=AV, 0x04=YPbPr, 0x05=S-Video, 0x06=DVI, 0x07=DisplayPort, 0x08=SDI, 0x09=Multi-Media. 0x0A=Network, 0x0B=USB Display 0xFF=Default. Other values are reserved. (8) Byte8-9 are reserved, and should be 0x00.		
Network Setting	14	g	E1	Input Value: Byte1 - Byte2 - Byte3Byte9 (1) Byte1=0x00: IP Setup Mode Byte1=0x00: IP Setup Mode Byte1=0x01: IP Address Byte1=0x03: Default Cateway Byte1=0x04: Primary DNS Byte1=0x06: Secondary DNS Byte1=0x06: MAC Address (2) Byte2-9 are reserved, should be 0x00. Return value: Byte1 - Byte2 - Byte3Byte9 The Byte1 at the return value should be the same as the value of Byte1 at Input value. Byte2~Byte15 should be hex value format (1) If Byte1=0x00(IP Setup Mode) at Input value, the return value should be Byte1=0x00 Byte2=0x00: Manual 0x01: DHCP Byte3-9 are reserved, should be 0x00. (2) If Byte1=0x01 (Same as Byte1 at Input value, the return value should be Ex: IP address=160.254.81.38 Byte1=0x01 (same as Byte1 at Input value) Byte2=0x49 (=169), Byte3=0xFE (=254), Byte4=0x51(=81), Byte5=0x26 (=38) Byte6-9 are reserved, should be 0x00. (3) If Byte1=0x02-0x05 at Input value, refer to (2) (4) If Byte1=0x06(MAC Address) at Input value, the return value should be Ex: MAC address=0x22.64:7E:2C:82 Byte1=0x06, Byte3=0x22.64;7E:2C:82 Byte1=0x06, Byte3=0x22.8yte1=0x64, Byte5=0x7E, Byte6=0x2C, Byte7=0x82 Byte8=0x00, Byte3=0x22, Byte4=0x64, Byte5=0x7E, Byte6=0x2C, Byte7=0x82 Byte8=0x00, Byte3=0x02, Byte4=0x64, Byte5=0x7E, Byte6=0x2C, Byte7=0x82 Byte8=0x0		



RS232 Command List

For BenQ:

RP652

RP702

RP790S

RP705H

Applicable for All Regions

Version: 02 Date:2015/11/17

1. Application

This document defines the RS232 communications method for control the BenQ Interactive Flat Panels when using a remote controller.

2. Preparation Connectors and wiring

Connector: 9-pin D-sub Cable: Direct cable

ConnectionMonitor + PC

3. Communication specification

Communication Parameter

RS-232C Remote control

(1) InterfaceRS-232C(2) Baud rate38400bps(3) Data length8bits(4) ParityNone(5) Stop bit1 bit

4. Command List – Set command

Set Function	Len	ID	Cmd	Cmd	Value Range (ASCII Bytes)		System Deturn	
			Туре	Code	RP Series	Send Set Command	System Return	Remark
	▼	▼	7	(He)▼	RS232		message	
Power	8		S	21	000 : / Monitor Off	38 30 31 73 21 30 30 30 0D	Set command is	
					001 : Android On / Monitor On	38 30 31 73 21 30 30 31 0D	Valid, system	
					002 : Android Off /	38 30 31 73 21 30 30 32 0D	return	
						38 30 31 73 21 30 30 33 0D	34 30 31 2B 0D	
Video Source	8		s	22	000 : VGA	38 30 31 73 22 30 30 30 0D	1	
					001 : HDMI1	38 30 31 73 22 30 30 31 0D	Set command is	
					002: HDMI2	38 30 31 73 22 30 30 32 0D	Invalid or system	
					003 : AV	38 30 31 73 22 30 30 33 0D	don't support	
					004 : YPbPr	38 30 31 73 22 30 30 34 0D	command, system	
					021 : HDMI3	38 30 31 73 22 30 30 34 0D	return	
					022 : HDMI4	38 30 31 73 22 30 32 31 0D	1	
					023 : HDMI5	38 30 31 73 22 30 32 33 0D	34 30 31 2D 0D	
					101 : android	38 30 31 73 22 31 30 31 0D	1	
					102 : OPS	38 30 31 73 22 31 30 32 0D	1	
					200 : Android Home (Remote		1	
					Control - Android Home Key)	38 30 31 73 22 32 30 30 0D		
					201 : Inpput (Reomte Control -		1	
					Input Source	38 30 31 73 22 32 30 31 0D		
Aspect Ratio	8		S	31	000 : Full	38 30 31 73 31 30 30 30 0D		
					001 : 4:3	38 30 31 73 31 30 30 31 0D		
					002 : Film	38 30 31 73 31 30 30 32 0D		
					003 : Subtitle	38 30 31 73 31 30 30 33 0D		
					004 : PC Mode	38 30 31 73 31 30 30 34 0D		
Language	8		S	32	000: English	38 30 31 73 32 30 30 30 0D		
					001: Français	38 30 31 73 32 30 30 31 0D		
					002: Español	38 30 31 73 32 30 30 32 0D		
					003: 繁中	38 30 31 73 32 30 30 33 0D		
					004: 简中	38 30 31 73 32 30 30 34 0D		
					005: Português	38 30 31 73 32 30 30 35 0D		
					006: German	38 30 31 73 32 30 30 36 0D		
					007: Dutch	38 30 31 73 32 30 30 30 0D		
					008: Polish	38 30 31 73 32 30 30 38 0D		
					009: Russia	38 30 31 73 32 30 30 39 0D		
					010:Czech	38 30 31 73 32 30 31 30 0D		
					011:Danish	38 30 31 73 32 30 31 31 0D		
					012:Swedish	38 30 31 73 32 30 31 32 0D		
					013:Italian	38 30 31 73 32 30 31 33 0D		
					014:Romanian	38 30 31 73 32 30 31 34 0D		
					015:Norwegian	38 30 31 73 32 30 31 35 0D		
					016:Finnish	38 30 31 73 32 30 31 36 0D		
					017:Greek 018:Turkish	38 30 31 73 32 30 31 37 0D 38 30 31 73 32 30 31 38 0D		
20					019:Arabic	38 30 31 73 32 30 31 39 0D		
					020:Japanse	38 30 31 73 32 30 31 39 0D	1	

Set Function	Len	ID	Cmd	Cmd	Value Range (ASCII Bytes)		Custom Datum	
			Туре	Code	RP Series	Send Set Command	System Return	Remark
	_	_	*	(He) ▼	RS232		message	
Volume	8		S	35	200 Volume -	38 30 31 73 35 32 30 30 0D		
					300 Volume +	38 30 31 73 35 33 30 30 0D		
Mute	8		S	36	001: On	38 30 31 73 36 30 30 31 0D		
	8		S	40	000 : Remote Control VOL+	38 30 31 73 40 30 30 30 0D		
					001 : Reomte Control VOL-	38 30 31 73 40 30 30 31 0D		
					010: Remote Control 上	38 30 31 73 40 30 31 30 0D		
					011 : Remote Control 下	38 30 31 73 40 30 31 31 0D		
					012: Reomte Control 左	38 30 31 73 40 30 31 32 0D		
Remote Controller					013: Remote Control 右	38 30 31 73 40 30 31 33 0D		
Function					014 : Reomte Control OK	38 30 31 73 40 30 31 34 0D		
Function					020 : Reomte Control Menu Key	38 30 31 73 40 30 32 30 0D		
					021 : Remote Control Input	38 30 31 73 40 30 32 31 0D		
					Source Key	30 30 31 73 40 30 32 31 00		
					022 : Reomte Control Exit Key	38 30 31 73 40 30 32 32 0D		
					031 : Blank	38 30 31 73 40 30 33 31 0D		
					032 : Freeze	38 30 31 73 40 30 33 32 0D		
All Reset (OSD recall)	8		S	7E		38 30 31 73 7E 30 30 30 0D		OSD recall

4. Command List – Get command

Get Function	Len	ID	Cmd	Cmd	• • •								
			Туре		RP Series	Send Get Command	System Reply Command						
v	v	v	. J ₩	e •	RS232	00.000	ojotom topij communi						
Model Info	20		g	20	(1) Input value: Byte1 - Byte2 - Byte3Byte15								
					Byte2-Byte11=0x00 Byte1=0x01: Get Customer Name Byte1=0x02: Get Customer Model Name Byte1=0x04: Get Scaler Firmware Version	44 30 31 67 20 <mark>01</mark> 00 00 00 00 00 00 00 00 00 00 00 00 00	44 30 31 72 20 01 42 45 4E 51 00 00 00 00 00 00 00 00 00 00 0D						
					Byte1=0x05: Get LAN Firmware Version Byte1=0x06: Get Serial	44 30 31 67 20 <mark>02</mark> 00 00 00 00 00 00 00 00 00 00 00 00 00	RP652: 44 30 31 72 20 02 52 50 36 35 32 00 00 00 00 00 00 00 00 00 00 0D PR702: 44 30 31 72 20 02 52 50 37 30 32 00 00 00 00 00 00 00 00 00 0D RP790: 44 30 31 72 20 02 52 50 37 39 30 00 00 00 00 00 00 00 00 00 0D						
											Ex: If Customer=Generic, Byte1=0x01, Byte2='G', Byte3='e',Byte8='c',	44 30 31 67 20 <mark>04</mark> 00 00 00 00 00 00 00 00 00 00 00 00 00	40 30 31 72 20 04 31 2E 30 2E 35 00 00 00 00 00 00 00 00 00 00 D
					Byte9~Byte11=0x00. Ex If the Scaler Firmware Version=1.02, Byte1=0x03, Byte2=11, Byte3=1, Byte4=0', Byte5=2', Byte6~Byte11=0x00.	44 30 31 67 20 <mark>06</mark> 00 00 00 00 00 00 00 00 00 00 00 00 00	44 30 31 72 20 06 45 49 50 33 46 30 30 30 35 32 30 32 45 00 0D						
Cianal	0			22	000: Cianal unatable	20 20 24 67 22 20 20 20 00	20 20 24 72 22 20 20 00						
Signal	8		g	22	000: Signal unstable	38 30 31 67 22 30 30 30 0D	38 30 31 72 22 30 30 30 0D						
Status					001: Signal stable		38 30 31 72 22 30 30 31 0D						
Volume	8		_	66	(Active Sync exists) 000 ~ 100	38 30 31 67 66 30 30 30 0D	38 30 31 72 66 30 30 30 0D ~						
v Olui (18	0		g	UÜ	1000 ~ 100	00 00 1 07 00 00 00 UU	38 30 31 72 66 31 30 30 0D ~						
Mute	8		ď	67	000: Off	38 30 31 67 67 30 30 30 0D	38 30 31 72 67 30 30 0D						
IVIULE	٥		У	υı	001: On	30 30 31 07 07 30 30 30 00	38 30 31 72 67 30 30 30 0D						
Video	8		g	6A	000 : VGA	38 30 31 67 6A 30 30 30 0D	38 30 31 72 6A 30 30 30 0D						
Source			9	υ / (001 : HDMI1	33 33 37 37 37 30 30 30 35	38 30 31 72 6A 30 30 31 0D						
300100					002: HDMI2		38 30 31 72 6A 30 30 32 0D						
					003 : AV		38 30 31 72 6A 30 30 32 0D						
					003 : AV 004 : YPbPr		38 30 31 72 6A 30 30 33 0D						
					021 : HDMI3		38 30 31 72 6A 30 32 31 0D						
					021 : HDMI4		38 30 31 72 6A 30 32 31 0D						
					023 : HDMI5		38 30 31 72 6A 30 32 32 0D						
					101 : android		38 30 31 72 6A 31 30 31 0D						
					102 : OPS		38 30 31 72 6A 31 30 31 0D						
					104 . UF 0		00 00 01 12 0A 01 00 02 0D						

Get Function	Len		Cmd	Cmd	• 1	Send Get Command	System Reply Command
v	▼	*	Type	e▼	RS232	Seria Get Commana	System Reply Command
Power	8		g	6C	NOZOZ	38 30 31 67 6C 30 30 30 0D	38 30 31 72 6C 30 30 30 0D
							38 30 31 72 6C 30 30 31 0D
							38 30 31 72 6C 30 30 32 0D
							38 30 31 72 6C 30 30 33 0D
Language	8		g	78	000: English	38 30 31 67 78 30 30 30 0D	38 30 31 72 78 30 30 30 0D
					001: Français		38 30 31 72 78 30 30 31 0D
					002: Español		38 30 31 72 78 30 30 32 0D
					003: 繁中		38 30 31 72 78 30 30 33 0D
					004: 简中 (X)		38 30 31 72 78 30 30 34 0D
					005: Português		38 30 31 72 78 30 30 35 0D
					006: German		38 30 31 72 78 30 30 36 0D
					007: Dutch		38 30 31 72 78 30 30 37 0D
					008: Polish		38 30 31 72 78 30 30 38 0D
					009: Russia		38 30 31 72 78 30 30 39 0D
					010:Czech		38 30 31 72 78 30 31 30 0D
					011:Danish		38 30 31 72 78 30 31 31 0D
					012:Swedish		38 30 31 72 78 30 31 32 0D
					013:ltalian		38 30 31 72 78 30 31 33 0D
					014:Romanian		38 30 31 72 78 30 31 34 0D
					015:Norwegian		38 30 31 72 78 30 31 35 0D
					016:Finnish		38 30 31 72 78 30 31 36 0D
					017:Greek		38 30 31 72 78 30 31 37 0D
					018:Turkish		38 30 31 72 78 30 31 38 0D
					019:Arabic		38 30 31 72 78 30 31 39 0D
					020:Japanse		38 30 31 72 78 30 32 30 0D

Generic RS232 protocol – V1

1 Introduction

This document describes the hardware interface spec and software protocols of RS232 interface communication between Commercial Display and PC or other control unit with RS232 protocol.

Both sets protocol contain two sections command:

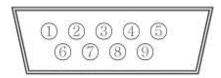
- Set-Function
- Get-Function

**In below document, "PC" will represents all the control units that can sent or receive the RS232 protocol command.

2 Description

- 2.1 Hardware specification
 - LCD communication port in the rear side
 - (1) Connector type: DSUB 9 Pin Male
 - (2) Pin Assignment

Male DSUB 9Pin



(outside view)

Pin #	Signal	Remark
1	NC	
2	RXD	Input to LCD
		Monitor
3	TXD	Output from LCD
		Monitor
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	
frame	GND	

^{*}Use of crossover (null modem) cable required for use with PC

2.2 Communication Setting

Baud Rate Select: 9600bps (fixed)
Data bits: 8bits (fixed)
Parity: None (fixed)
Stop Bits: 1(fixed)

2.3 Command Message Reference

PC sends to Monitor command packet followed by "CR". Every time PC sends control command to the Monitor, the Monitor shall response as follows:

- 1. If the message is receives correctly it will send "+" (02Bh) followed by "CR" (00Dh)
- 2. If the message is receives incorrectly it will send "-" (02Dh) followed by "CR" (00Dh)

3 Set and Get Protocol:

3.1 Command Description

Name	Byte	
Length	1	Total Byte of Message excluding "CR". Ex: 0x38 for Length=8; 0x39
_		for Length=9; 0x3A for Length=10.
ID	2	Identification for each of the monitor(2 byte)
		Set command with ID="99" (0x39 0x39) will do the settings to all
		monitors, and it will not have reply command.
Command	1	0x73 ('s'): Set command
Type		0x67 ('g'): Get command
		0x72 ('r'): Reply command
		0x2B ('+'): Valid command reply
		0x2D ('-'): Invalid command
		reply
Command:	1	Function command code: One byte ASCII code
Value	3	Three bytes ASCII that defines the value
CR	1	0x0D

3.2 Set-Function Listing

The PC can control the LCD Monitor for specific actions. The Set-Function command allows you to control the LCD monitor behavior in a remote sit through the RS232 port. There are 2 kind of set command. It support "With ID" and "Without ID" protocol.

With ID Protocol

The Set-Function packet format consists of 9 bytes.

Set-Function description:

Send Command: Length (1 byte) + ID (2 byte) + Cmd Type (1 byte) + Cmd Code(1 byte) + Value(3 byte) + CR (1 byte)

Example1: Set Brightness as 76 for Monitor 02 and this command is valid

Send (Hex Format)

Send: (Command Type="s")

Byte	0	1 2		3	4	5	6	7	8	
Name	Longth	ID		Cmd Type Cmd Code Value					CD	
INAITIE	Length ID	,	Cilia Type Cilia Code		Byte1	Byte2	Byte3	CR		
Hex	0x38	0x30	0x32	0x73	0x24	0x30	0x37	0x36	0x0D	

Reply (Hex Format)

Byte	0	1	2	3	4
Name	Length	II)	Cmd Type	CR
Hex	0x34	0x30	0x32	0x2B	0x0D

Example2: Set Brightness as 176 for Monitor -02 and this command is NOT valid

Send (Hex Format)

Byte	0	1	2	3	4	5	6	7	8		
Name	Longth	II	`	Cmd Type	Cmd Codo		CR				
Name	Length	II.	,	Cmd Type	Cilia Code	Byte1	Byte2	Byte3	CK		
Hex	0x38	0x30	0x32	0x73	0x24	0x31	0x37	0x36	0x0D		

Reply (Hex Format)

Byte	Ó	1	2	3	4
Name	Length	II)	Cmd Type	CR
Hex	0x34	0x30	0x32	0x2D	0x0D

Example3: Set brightness 76 for all monitors

Send (Hex Format)

Byte	0	1	2	3	4	5	6	7	8		
Name	Length	ID		Cmd Type	Cmd Codo		CR				
IName	Lengui	11	,	Cilia Type	e Cmd Code	Byte1	Byte2	Byte3	CR		
Hex	0x38	0x39	0x39	0x73	0x24	0x30	0x37	0x36	0x0D		

Reply (Hex Format)

No Reply.

Without ID Protocol

The without ID protocol only supports the set command.

There is no ID at the command packet, and there is no return packet even the command is invalid.

Length (1 byte): Total bytes of message = 5 ASCII (35H) excluding "CR"

Ex: Set Brightness as 76

	Ex. Set Brightness as 70									
	Byte	0	1	2	3	4	5			
	Name	Longth	Cmd		Value		CR			
		Length	Code	Byte1	Byte2	Byte3	CR			
	Hex	0x35	0x24	0x30	0x37	0x36	0x0D			

Set-function table

Set Function	Len	ID	Cmd Type	Cmd Code (Hex)	Value Range (ASCII Bytes)	Remark
Power	8		S	21	000: Standby	
					001: On	
Video Source	8		S	22	000 : VGA	

		1 1		001 : HDMI1	
				002: HDMI2	Option, not support if the platform doesn't have this feature.
				003 : AV	Option, not support if the platform doesn't have this feature.
				004 : YPbPr	
				005 : S-Video	Option, not support if the platform doesn't have this feature.
				006 : DVI	
				007 : DisplayPort	
				008 : SDI	Option, not support if the platform doesn't have this feature.
				009 : Multi-Media	Option, not support if the platform doesn't have this feature.
				010:Network	Option, not support if the platform doesn't have this feature.
				011: USB Display	Option, not support if the platform doesn't have this feature.
Contrast	8	S	23	000 ~ 100	
Brightness	8	S	24	000 ~ 100	
Sharpness	8	S	25	000 ~ 020	
Picture Reset	8	S	26		Value don't care
Aspect Ratio	8	S	31	000: Full (Video) / Full 2 (PC)	
				001: 4:3 (Video) /Real (PC)	
				002: Wide Zoom (Video) / Full1 (PC)	
				003: Zoom (Video)	
Language	8	S	32	000: English	
				001: Français	
				002: Español	
				003: 繁中	Option, not support if the platform doesn't have this feature.
				004: 简中	Option, not support if the platform doesn't have this feature.
				005: Português	Option, not support if the platform doesn't have this feature.
				006: German	Option, not support if the platform doesn't have this feature.
				007: Dutch	Option, not support if the platform doesn't have this feature.
				008: Polish	Option, not support if the platform doesn't have this feature.
				009: Russia	Option, not support if the platform doesn't have this feature.
				010:Czech	Option, not support if the platform doesn't have this feature.

				011:Danish	Option, not support if the platform doesn't have this feature.
				012:Swedish	Option, not support if the platform doesn't have this feature.
				013:Italian	Option, not support if the platform doesn't have this feature.
				014:Romanian	Option, not support if the platform doesn't have this feature.
				015:Norwegian	Option, not support if the platform doesn't have this feature.
				016:Finnish	Option, not support if the platform doesn't have this feature.
				017:Greek	Option, not support if the platform doesn't have this feature.
				018:Turkish	Option, not support if the platform doesn't have this feature.
				019:Arabic	Option, not support if the platform doesn't have this feature.
				020:Japanse	Option, not support if the platform doesn't have this feature.
Sound Mode	8	S	33	000: Dynamic	
				001: Standard	
				002: Custom	
Volume	8	S	35	000 ~ 100	
Mute	8	S	36	000: Off	
				001: On	
Treble	8	S	37	000~100	OSD value=RS232 value-50
Bass	8	S	38	000~100	OSD value=RS232 value-50
Balance	8	S	39	000~100	OSD value=RS232 value-50
Surround	8	s	3A	000: Off	
				001: On	
Sound Reset	8	S	3B		Value don't care
Monitor ID	8	S	3D	001 ~ 098	
IR Control	8	S	42	000: Disable	All the buttons at the remote controller have no function
				001: Enable	
				002: Passthrough Master Note: To set Pass through, the command must use the "With ID protocal", and the ID should between "01"~"98".	

V1.1 Commercial Display RS-232 Protocol

				003: Passthrough Slave Note1: To set Pass through, the command must use the "With ID protocal", and the ID should between "01"~"98". Note2: The monitor will not response to any RS232 command if it is at Passthrough Slave mode	
Button&IR Control	8	s	43	000: Disable	All the buttons at both keypad board and remote controller have no function.
				001: Enable	
Button Control	8	S	45	000: Disable	All the buttons at the keypad board have no function
				001: Enable	
Image Retention	8	S	47	000: Off	
				001: On	
OSD Info Box	8	S	5B	000: Off	
				001: On	
All Reset	8	S	7E		Value don't care
Picture Mode	8	S	81	000: Standard	
				001: Vivid	
				002: Cinema	
				003: Custom	
Chroma (Color)	8	S	82	000 ~ 050	
Phase (Tint)	8	S	83	000 ~ 050	
Backlight	8	S	84	000 ~ 100	
Adaptive Contrast	8	S	85	000: Off	
				001: On	
Color Temp	8	S	86	000: Cool	
				001: Neutral	
				002: Warm	
				003: Custom	
Audio Source	8	S	88	000: Audio1	
				001: Audio2	Option, not support if the platform doesn't have this feature.
				002: HDMI or HDMI1	
				003: HDMl2	Option, not support if the platform doesn't have this feature.
				004: DisplayPort	
				005: SDI	Option, not support if the platform doesn't have this feature.
				006: Multi-Media	Option, not support if the platform doesn't have this feature.
Speaker	8	S	89	000: Internal	

				001: External	Option, not support if the platform doesn't have this feature.
				002: Lineout	
PAP Enable	8	S	8A	000: Off	
				001: PIP	
				002: PBP	
PAP Size	8	S	8D	When PAP=PIP 000: Small 001: Large	
				When PAP=PBP 000 ~ 014	
PIP Position	8	S	8E	000: Upper Left	
				001: Upper Right	
				002: Lower Left	
				003: Lower Right	
Auto Adjustment Execute	8	S	8F		For VGA only, execute auto adjustment.
VGA Clock frequency	8	S	90	000 ~ 100	
VGA Phase	8	S	91	000 ~ 031	
VGA H.Position	8	S	92	000 ~ 060	
VGA V.Position	8	S	93	000 ~ 060	
Ambient Light Sensor	8	S	94	000: Off	
				001: On	
Auto Search	8	S	96	000: Off	
				001: On	
Over Scan	8	S	97	000: Off	
				001: On	
				002: Auto	
RTC Year	8	S	98	000 ~ 099	Ex: value=012 means Year 2012 If the setting is illegal (Ex: Year 2013 doesn't have the date Feb/29), return "Invalid Command Reply".
RTC Month	8	S	99	001 ~ 012	Ex: value=001 means January If the setting is illegal (Ex: Februrary doesn't have the date Feb/31), return "Invalid Command Reply".
RTC Day	8	S	9A	001 ~ 031	If the setting is illegal (Ex: Day31 doesn't exist in April), return "Invalid Command Reply".
RTC Hour	8	s	9B	000 ~ 023	
RTC Minute	8	S	9C	000 ~ 059	
Touch Feature	8	s	9E	000: Off	For touch model only.
				001: On	For touch model only.
OSD Rotation	8	s	9F	000: Landscape	
				001: Portrait	
H Monitor	8	S	A4	001 ~ 010	

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V Monitor	8	s	A5	001 ~ 010
H Position	8	S	A6	001 ~ 010
V Position	8	S	A7	001 ~ 010
Frame Comp.	8	S	A8	000: Off
				001: On
Power Save	8	S	A9	000: Off
				001: Low
				002: High
Auto Adjustment	8	S	AA	000: Off
				001: On
Display Wall LED	8	S	AE	000: Off
				001: On
Display Wall Power On	8	S	AF	000: Off
Delay				001: On
PAP Active Picture	8	S	BE	000: Main(For PIP), Left(For PBP)
				001: Sub(For PIP), Right(For PBP)

On/Off Timer	14	S		Wednesday, bit4 for Thursday, bit5 for Friday, bit6 for Saturday, bit7 for Everday. (3) Byte3: The Hour of the On Timer. Byte3=0x00~0x17. (4) Byte4: The Minute of the On Timer. Byte4=0x00~0x3B. (5) Byte5: The Hour of the Off Timer. Byte5=0x00~0x17.	Ex: Byte1=0x61 means the Timer no.1 is select and enable, and its On Timer is enable, Off Timer
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3.3 Get-Function Listing

Get function format is listed as following:

Length (1 byte) + ID (2 byte) + Cmd Type (1 byte) + Cmd Code(1 byte) + Value(>=3 byte) + CR (1 byte).

Example 1:

Get Brightness from ID-05 and this command is valid, and the Brightness value is 67.

Send command:

Byte	0	1	2	3	4	5	6	7	8	
Name	Longth	11)	Cmd Type	Cmd Codo		Value		CR	
Name	Length	"	J	Cmd Type	Cmd Code	Byte1	Byte2	Byte3	CK	
Hex	0x38	0x30	0x35	0x67	0x62	0x30	0x30	0x30	0x0D	
Return:										
Byte	0	1	2	3	4	5	6	7	8	
Nome	Longth	11	<u> </u>	Cmd Type	Cmd Code		Value			
Name	Length	")	Cmd Type	ype Cilia Code	Byte1	Byte2	Byte3	CR	
Hex	0x38	0x30	0x35	0x72	0x62	0x30	0x36	0x37	0x0D	

Example 2:

Get Customer Name from ID-05, and the Customer Name is Qisda.

Byte	0	1 2		3	4	
Name	Length	ID		Cmd Type	Cmd Code	
Hex	0x44	0x30	0x35	0x67	0xDC	

5	6	7	8	9	10	11	12	13
	Value							
Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8	Byte9
0x01	0x00							

14	15	16	17	18	19	20		
Value								
Byte10	Byte11	Byte12	Byte13	Byte14	Byte15	CR		
0x00	0x00	0x00	0x00	0x00	0x00	0x0D		

Return:

Byte	0	1 2		3	4
Name	Length	ID		Cmd Type	Cmd Code
Hex	0x44	0x30	0x35	0x72	0xDC

5	6	7	8	9	10	11	12	13	
	Value								
Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8	Byte9	
0x51 ('Q')	0x69 ('i')	0x73 ('s')	0x64 ('d')	0x61 ('a')	0x00	0x00	0x00	0x00	

14	15	16	17	18	19	20	
Value							
Byte10	Byte11	Byte12	Byte13	Byte14	Byte15	CR	
0x00	0x00	0x00	0x00	0x00	0x00	0x0D	

PC Get-function command to LCD Monitor

Get Function	Len	ID	Cmd Type	Cmd Code (Hex)	Value Range (ASCII Bytes)	Remark
Model Info	20		g	20	(1) Input value: Byte1 - Byte2 - Byte3Byte15 Byte2~Byte11=0x00 Byte1=0x01: Get Customer Name Byte1=0x02: Get Customer Model Name Byte1=0x03: Get Qisda Model Name Byte1=0x04: Get Scaler Firmware Version Byte1=0x05: Get LAN Firmware Version Byte1=0x06: Get Serial Number (2) Return value: Byte1 - Byte2 - Byte3Byte15 The Byte1 value at the return value should be the same as the value of Byte1 at input value. Byte2~Byte15 should be ASCII format. Ex: If Customer=Generic, Byte1=0x01, Byte2='G', Byte3='e',Byte8='c', Byte9~Byte11=0x00. Ex: If the Scaler Firmware Version=1.02, Byte1=0x03, Byte2='1', Byte3='.', Byte4='0', Byte5='2', Byte6~Byte11=0x00.	

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Capability	8	g	21	Return value: Byte1 - Byte2 - Byte3 (1) Byte1 bit0 of Byte1=1: Support SDI bit1 of Byte1=1: Support Touch feature bit2 of Byte1=1: Support Internal speaker bit3 of Byte1=1: Support Multi-Media module (only STB supports Multi-Media module) bit4 of Byte1=1: Support HDMI2 (only STA supports HDMI2) bit5 of Byte1=1: Support Network bit6 of Byte1=1: Support USB Display bit7 of Byte1=1: Support DVI (2) Byte2: bit0 of Byte2=1: Support AV bit1 of Byte2=1: Support AV bit1 of Byte2=1: Support Audio2 bit3 of Byte2=1: Support Display Wall Other bit are reserved, and should be 0.	
Signal Status	8	g	22	000: Signal unstable	
				001: Signal stable (Active Sync exists)	
Signal Format	8	g	23	000: PC	
				204 1/11	
A) / T:			0.4	001: Video	
AV Timing	8	g	24	000: NTSC	
				001: PAL	
Treble	8	g	37	000~100	OSD value=RS232 value-50
Bass	8	g	38	000~100	OSD value=RS232 value-50
Balance	8	g	39	000~100	OSD value=RS232 value-50
Surround	8	g	3A	000: Off	
				001: On	
OSD Info Box	8	g	5D	000: Off	
				001: On	
Contrast	8	g	61	000 ~ 100	
Brightness	8	g	62	000 ~ 100	
Sharpness	8	g	63	000 ~ 020	
Sound Mode	8	g	65	000: Dynamic	
				001: Standard	
				002: Custom	
Volume	8	g	66	000 ~ 100	
Mute	8	g	67	000: Off	
				001: On	
IR Control	8	g	68	000: Disable	All the buttons at the remote controller have no function
				001: Enable	

				002: Passthrough Master Note: To set Pass through, the command must use the "With ID protocal", and the II should between "01"~"98".	
				003: Passthrough Slave Note1: To set Pass through, the command must use the "With ID protocal", and the II should between "01"~"98". Note2: The monitor will not response to ar RS232 command if it is at Passthrough SI mode	D ny
Button&IR Control	8	9	9 6		All the buttons at both keypad board and remote controller have no function.
				001: Enable	
Video Source	8	Q	9 6.	000 : VGA	If PIP or PBP=On, the return value is the source at active window.
				001 : HDMI1	
				002: HDMI2	Option, not support if the platform doesn't have this feature.
				003 : AV	Option, not support if the platform doesn't have this feature.
				004 : YPbPr	
				005 : S-Video	Option, not support if the platform doesn't have this feature.
				006 : DVI	
				007 : DisplayPort	
				008 : SDI	Option, not support if the platform doesn't have this feature.
				009 : Multi-Media	Option, not support if the platform doesn't have this feature.
				010:Network	Option, not support if the platform doesn't have this feature.
				011: USB Display	Option, not support if the platform doesn't have this feature.
Power	8	Q	g 60	,	
				001: On	
5V	8	9			value=049 means 4.9V
12V	8	9	9 6		value=122 means 12.2V
Ambient Sensor Value	10	Ş	7	00000 ~ 2000	Ex: If the value is 500, the return value should be: Byte1=0x30, Byte2=0x35, Byte3=0x30, Byte4=0x30, Byte5=0x30.

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Thermal Sensor Value	10	g	71	(1) Input value: Byte1-Byte2Byte5 (a) Byte1=0x01: Get the thermal sensor value from main board	Ex: If the temperature 5°C is from main board, the return value should be: Byte1=0x01, Byte2=0x2B, Byte3=0x30, Byte4=0x30, Byte5=0x35. Ex: If the temperature -15°C is from keypad board, the return value should be: Byte1=0x02, Byte2=0x2D, Byte3=0x30.
Image Retention	8	g	72	000: Off	
				001: On	
Button Control	8	g	73	000: Disable	All the buttons at the keypad board have no function
				001: Enable	
Monitor ID	8	g	75	001 ~ 098	
Operation Time	10	g	76	00000 ~ 99999	unit is hour
Aspect Ratio	8	g	77	000: Full (Video) / Full 2 (PC)	
				001: 4:3 (Video) /Real (PC)	
				002: Wide Zoom (Video) / Full1 (PC)	
				003: Zoom (Video)	
Language	8	g	78	000: English	
				001: Français	
				002: Español	
				003: 繁中	Option, not support if the platform doesn't have this feature.
				004: 简中	Option, not support if the platform doesn't have this feature.
				005: Português	Option, not support if the platform doesn't have this feature.
				006: German	Option, not support if the platform doesn't have this feature.
				007: Dutch	Option, not support if the platform doesn't have this feature.
				008: Polish	Option, not support if the platform doesn't have this feature.
				009: Russia	Option, not support if the platform doesn't have this feature.

				010:Czech	Option, not support if the platform doesn't have this feature.
				011:Danish	Option, not support if the platform doesn't have this feature.
				012:Swedish	Option, not support if the platform doesn't have this feature.
				013:Italian	Option, not support if the platform doesn't have this feature.
				014:Romanian	Option, not support if the platform doesn't have this feature.
				015:Norwegian	Option, not support if the platform doesn't have this feature.
				016:Finnish	Option, not support if the platform doesn't have this feature.
				017:Greek	Option, not support if the platform doesn't have this feature.
				018:Turkish	Option, not support if the platform doesn't have this feature.
				019:Arabic	Option, not support if the platform doesn't have this feature.
				020:Japanse	Option, not support if the platform doesn't have this feature.
Touch Feature	8	g	9E	000: Off	For touch model only.
				001: On	For touch model only.
Display Wall LED	8	g	AE	000: OFF	
				001: ON	
Display Wall Power On Delay	8	g	AF	000: OFF	
				001: ON	
Picture Mode	8	g	B1	000: Standard	
				001: Vivid	
				002: Cinema	
				003: Custom	
Chroma (Color)	8	g	B2	000 ~ 050	
Phase (Tint)	8	g	В3	000 ~ 050	
Backlight	8	g	B4	000 ~ 100	
Adaptive Contrast	8	g	B5	000: Off	
				001: On	
Color Temp	8	g	В6	000: Cool	
				001: Neutral	
				002: Warm	
				003: Custom	

Audio Source	8	s	88	000: Audio1	
				001: Audio2	Option, not support if the platform doesn't have this feature.
				002: HDMI or HDMI1	
				003: HDMI2	Option, not support if the platform doesn't have this feature.
				004: DisplayPort	
				005: SDI	Option, not support if the platform doesn't have this feature.
				006: Multi-Media	Option, not support if the platform doesn't have this feature.
Speaker	8	g	В9	000: Internal	
				001: External	Option, not support if the platform doesn't have this feature.
				002: Lineout	
PAP Enable	8	g	BA	000: Off	
				001: PIP	
				002: PBP	
PAP Size	8	g	BD	When PAP=PIP 000: Small 001: Large	
				When PAP=PBP 000 ~ 014	
PAP Active Picture	8	g	BE	000: Main(For PIP), Left(For PBP)	
				001: Sub(For PIP), Right(For PBP)	
PIP Position	8	g	BF	000: Upper Left	
				001: Upper Right	
				002: Lower Left	
				003: Lower Right	
VGA Clock frequency	8	g	C0	000 ~ 100	For VGA only.
VGA Phase	8	g	C1	000 ~ 031	For VGA only.
VGA H.Position	8	g	C2	000 ~ 060	
VGA V.Position	8	g	C3	000 ~ 060	
Ambient Light Sensor	8	g	C4	000: Off	
				001: On	
Auto Search	8	g	C6	000: Off	
				001: On	
Over Scan	8	g	C7	000: Off	
				001: On	
				002: Auto	

RTC Year	8	g	C8	000 ~ 099	Ex: value=012 means Year 2012 If the RTC is not enable, return "Invalid Command Reply"
RTC Month	8	g	C9	001 ~ 012	Ex: value=001 means January If the RTC is not enable, return "Invalid Command Reply"
RTC Day	8	g	CA	001 ~ 031	If the RTC is not enable, return "Invalid Command Reply"
RTC Hour	8	g	СВ	000 ~ 023	If the RTC is not enable, return "Invalid Command Reply"
RTC Minute	8	g	CC	000 ~ 059	If the RTC is not enable, return "Invalid Command Reply"
OSD Rotation	8	S	CF	000: Landscape	
				001: Portrait	
H Monitor	8	g	D4	001 ~ 010	
V Monitor	8	g	D5	001 ~ 010	
H Position	8	g	D6	001 ~ 010	
V Position	8	g	D7	001 ~ 010	
Frame Comp.	8	g	D8	000: Off	
				001: On	
Power Save	8	g	D9	000: Off	
				001: Low	
				002: High	
Auto Adjustment	8	g	DA	000: Off	
				001: On	
Temperature Alert	8	g	DB	000~005: degree The Alert Email will be sent out. When the temperature is reached the "limitied temperature - parameter"	

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On/Off Timer	14	g	EO	Byte1[7]: Reserved, should be 0. Byte1[6]: The Timer is enable or not. Byte1[6]=1 means enable. Byte1[5]: The On Timer is enable or not. Byte1[5]=1 means enable. Byte1[4]: The Off Timer is enable or not. Byte1[4]=1 means enable. (2) Byte2: The Day of the On/Off Timer. bit0 for Sunday, bit1 for Monday, bit2 for Tuesday, bit3 for Wednesday, bit4 for Thursday, bit5 for Friday, bit6 for Saturday, bit7 for Everday. (3) Byte3: The Hour of the On Timer. Byte3=0x00~0x17. (4) Byte4: The Minute of the On Timer. Byte4=0x00~0x3B. (5) Byte5: The Hour of the Off Timer. Byte5=0x00~0x17. (6) Byte6: The Minute of the Off Timer. Byte6=0x00~0x3B.	Ex: Byte1=0x01 means the Timer no.1 is selected and disable. Ex: Byte1=0x41 means the Timer no.1 is select and enable, and its both On and Off Timers are disable. Ex: Byte1=0x61 means the Timer no.1 is select and enable, and its On Timer is enable, Off Timer is disable. Ex: Byte1=0x71 means the Timer no.1 is select and enable, and its both On and Off
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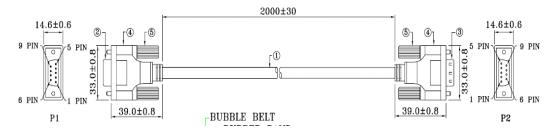
Network Setting	14	g	E1	Input Value: Byte1 - Byte2 - Byte3Byte9 (1) Byte1=0x00: IP Setup Mode Byte1=0x01: IP Address Byte1=0x02: Get Subnet Mask Byte1=0x03: Default Gateway Byte1=0x04: Primary DNS Byte1=0x05: Secondary DNS Byte1=0x06: MAC Address (2) Byte2~9 are reserved, should be 0x00. Return value: Byte1 - Byte2 - Byte3Byte9 The Byte1 at the return value should be the same as the value of Byte1 at Input value. Byte2~Byte15 should be hex value format (1) If Byte1=0x00(IP Setup Mode) at Input value, the return value should be Byte1=0x00 Byte2=0x00: Manual 0x01: DHCP Byte3~9 are reserved, should be 0x00. (2) If Byte1=0x01(IP Address) at Input value, the return value should be Ex: IP address=169.254.81.38 Byte1=0x01 (same as Byte1 at Input value) Byte2=0xA9 (=169), Byte3=0xFE (=254), Byte4=0x51(=81), Byte5=0x26 (=38) Byte6~9 are reserved, should be 0x00. (3) If Byte1=0x02~0x05 at Input value, refer to (2) (4) If Byte1=0x06(MAC Address) at Input value, the return value should be Ex: MAC address=00:22:64:7E:2C:82 Byte1=0x06 (same as Byte1 at Input value) Byte2=0x00, Byte3=0x22, Byte4=0x64, Byte5=0x7E, Byte6=0x2C, Byte7=0x82 Byte8~9 are reserved, should be 0x00.	
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1. RS232 Cable Requirement and Pin Assignment

Cable Requirement:

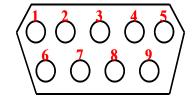


	WIRE ARRANGEMEN	T
P1	COLOR	P2
1	BLACK	1
2	BROWN	3
3	RED	2
4	ORANGE	4
5	YELLOW	5
6	GREEN	6
7	BLUE	7
8	PURPLE	8
9	GRAY	9
CASE	DRAIN WIRE	CASE

(to be checked)

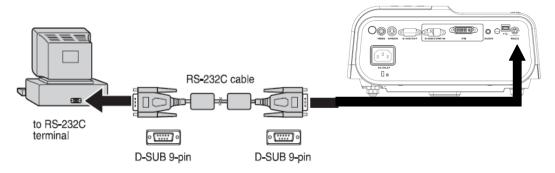
RS232 pin assignment

Pin	Description	Pin	Description
1	NC	2	RXD
3	TXD	4	NC
5	GND	6	NC
7	RTS	8	CTS
9	NC		



2. RS232 Connection

Below shows the illustration of connection between PC and Projector.



Note:

Make sure that your computer and projector are turned

off

before connection.

- Power on the computer first, and then plug the power cord of the projector.
- (It may cause Com port incorrect function, if you do not follow this instruction)
- Adapters may be necessary depending on the PC connected to this projector.

3. Interface Settings

RS-232	
protocol	
Baud Rate	115200 bps (default)
	Changeable(2400/4800/9600/14400/19200/38400/57600/115200)
	Setting in OSD menu
Data Length	8 bit
Parity Check	None
Stop Bit	1 bit
Flow Control	None

Software specification

- 1. Each input character will be echoed and All the echo text will be same with the command you execute except query command
- 2. When give "Enter" (ASCII 13), it will echo 3E,00. It means projector is ready to accept RS-232 command.
- 3. If no any command, it should echo 0D,0A,00 after 5 seconds.(5 sec time out)
- 4. If the command format is illegal, it will echo "Illegal format".
- 5. If the command format is correct, but it is not valid for this model, it will echo "Unsupported item".
- 6. If the command format is correct, but can't be execute in some condition, it will echo "Block item".

Note: 1.Item 5 and item 6 is not support at power saving mode (standby power < 1W). 2.Each input upper case and lower case character should be action.

- 7. all of status command and power on command should be action when low power mode(<0.5W)
- 8.support volume bar display
- 9.if system have Lan over Rs232 function, The RS232 command can be support.

4. Command Table

Function	Туре	Operation	ASCII
	Write	Power On	<cr>*pow=on#<cr></cr></cr>
Power	Write	Power off	<cr>*pow=off#<cr></cr></cr>
ower	Read	Power Status	<cr>*pow=?#<cr></cr></cr>
	Write	COMPUTER/YPbPr	<cr>*sour=RGB#<cr></cr></cr>
	Write	COMPUTER 2/YPbPr2	<cr>*sour=RGB2#<cr></cr></cr>
	Write	Component	<cr>*sour=ypbr#<cr></cr></cr>
	Write	Component2	<cr>*sour=ypbr2#<cr></cr></cr>
	Write	DVI-A	<cr>*sour=dviA#<cr></cr></cr>
	Write	DVI-D	<cr>*sour=dvid#<cr></cr></cr>
Sauraa	Write	HDMI	<cr>*sour=hdmi#<cr></cr></cr>
Source Selection	Write	HDMI 2	<cr>*sour=hdmi2#<cr></cr></cr>
Selection	Write	Composite	<cr>*sour=vid#<cr></cr></cr>
	Write	S-Video	<cr>*sour=svid#<cr></cr></cr>
	Write	Network	<cr>*sour=network#<cr></cr></cr>
	Write	USB Display	<cr>*sour=usbdisplay#<cr></cr></cr>
	Write	USB Reader	<cr>*sour=usbreader#<cr></cr></cr>
	Read	Current source	<cr>*sour=?#<cr></cr></cr>
	Write	Mute On	<cr>*mute=on#<cr></cr></cr>
	Write	Mute Off	<cr>*mute=off#<cr></cr></cr>
	Read	Mute Status	<cr>*mute=?#<cr></cr></cr>
	Write	Volume +	<cr>*vol=+#<cr></cr></cr>
Audio Control	Write	Volume -	<cr>*vol=-#<cr></cr></cr>
	Read	Volume Status	<cr>*vol=?#<cr></cr></cr>
	Write	Mic. Volume +	<cr>*micvol=+#<cr></cr></cr>
	Write	Mic. Volume -	<cr>*micvol=-#<cr></cr></cr>
	Read	Mic. Volume Status	<cr>*micvol=?#<cr></cr></cr>
	Write	Audio pass Through off	<cr>*audiosour=off#<cr></cr></cr>
	Write	Audio-Computer1	<cr>*audiosour=RGB#<cr></cr></cr>
Audia acuma	Write	Audio-Computer2	<cr>*audiosour=RGB2#<cr></cr></cr>
Audio source	Write	Audio-Video/S-Video	<cr>*audiosour=vid#<cr></cr></cr>
select	Write	Audio-Component	<cr>*audiosour=ypbr#<cr></cr></cr>
	Write	Audio-HDMI	<cr>*audiosour=hdmi#<cr></cr></cr>
	Write	Audio-HDMI2	<cr>*audiosour=hdmi2#<cr></cr></cr>

	Read	Audio pass Status	<cr>*audiosour=?#<cr></cr></cr>
	Write	Dynamic	<cr>*appmod=dynamic#<cr></cr></cr>
	Write	Presentation	<cr>*appmod=preset#<cr></cr></cr>
	Write	sRGB	<cr>*appmod=srgb#<cr></cr></cr>
	Write	Bright	<cr>*appmod=bright#<cr></cr></cr>
	Write	Living Room	<cr>*appmod=livingroom#<cr></cr></cr>
	Write	Game	<cr>*appmod=game#<cr></cr></cr>
	Write	Cinema	<cr>*appmod=cine#<cr></cr></cr>
Picture Mode	Write	Standard	<cr>*appmod=std#<cr></cr></cr>
	Write	User1	<cr>*appmod=user1#<cr></cr></cr>
	Write	User2	<cr>*appmod=user2#<cr></cr></cr>
	Write	User3	<cr>*appmod=user3#<cr></cr></cr>
	Write	ISF Day	<cr>*appmod=isfday#<cr></cr></cr>
	Write	ISF Night	<cr>*appmod=isfnight#<cr></cr></cr>
	Write	3D	<cr>*appmod=threed#<cr></cr></cr>
	Read	Picture Mode	<cr>*appmod=?#<cr></cr></cr>
	Write	Contrast +	<cr>*con=+#<cr></cr></cr>
	Write	Contrast -	<cr>*con=-#<cr></cr></cr>
	Read	Contrast value	<cr>*con=?#<cr></cr></cr>
	Write	Brightness +	<cr>*bri=+#<cr></cr></cr>
	Write	Brightness -	<cr>*bri=-#<cr></cr></cr>
	Read	Brightness value	<cr>*bri=?#<cr></cr></cr>
	Write	Color +	<cr>*color=+#<cr></cr></cr>
	Write	Color -	<cr>*color=-#<cr></cr></cr>
	Read	Color value	<cr>*color=?#<cr></cr></cr>
Picture Setting	Write	Sharpness +	<cr>*sharp=+#<cr></cr></cr>
r lotare octimg	Write	Sharpness -	<cr>*sharp=-#<cr></cr></cr>
	Read	Sharpness value	<cr>*sharp=?#<cr></cr></cr>
	Write	Color	<cr>*ct=warmer#<cr></cr></cr>
	VVIIC	Temperature-Warmer	
	Write	Color	<cr>*ct=warm#<cr></cr></cr>
		Temperature-Warm	
	Write	Color	<cr>*ct=normal#<cr></cr></cr>
		Temperature-Normal	
	Write	Color Temperature-Cool	<cr>*ct=cool#<cr></cr></cr>
	Write	Color	<cr>*ct=cooler#<cr></cr></cr>

		Temperature-Cooler	
	Write	Color Temperature-lamp native	<cr>*ct=native#<cr></cr></cr>
Read		Color Temperature Status	<cr>*ct=?#<cr></cr></cr>
	Write	Aspect 4:3	<cr>*asp=4:3#<cr></cr></cr>
	Write	Aspect 16:9	<cr>*asp=16:9#<cr></cr></cr>
	Write	Aspect 16:10	<cr>*asp=16:10#<cr></cr></cr>
	Write	Aspect Auto	<cr>*asp=AUTO#<cr></cr></cr>
	Write	Aspect Real	<cr>*asp=REAL#<cr></cr></cr>
	Write	Aspect Letterbox	<cr>*asp=LBOX#<cr></cr></cr>
	Write	Aspect Wide	<cr>*asp=WIDE#<cr></cr></cr>
	Write	Aspect Anamorphic	<cr>*asp=ANAM#<cr></cr></cr>
	Read	Aspect Status	<cr>*asp=?#<cr></cr></cr>
	Write	Digital Zoom In	<cr>*zooml#<cr></cr></cr>
	Write	Digital Zoom out	<cr>*zoomO#<cr></cr></cr>
	Write	Auto	<cr>*auto#<cr></cr></cr>
	Write	Brilliant color on	<cr>*BC=on#<cr></cr></cr>
	Write	Brilliant color off	<cr>*BC=off#<cr></cr></cr>
	Read	Brilliant color status	<cr>*BC=?#<cr></cr></cr>
	Write	Projector Position-Front Table	<cr>*pp=FT#<cr></cr></cr>
	Write	Projector Position-Rear Table	<cr>*pp=RE#<cr></cr></cr>
	Write	Projector Position-Rear Ceiling	<cr>*pp=RC#<cr></cr></cr>
Operation	Write	Projector Position-Front Ceiling	<cr>*pp=FC#<cr></cr></cr>
Settings	Write	Quick auto search	<cr>*QAS=on#<cr></cr></cr>
	Write	Quick auto search	<cr>*QAS=off#<cr></cr></cr>
	Read	Quick auto search status	<cr>*QAS=?#<cr></cr></cr>
	Read	Projector Position Status	<cr>*pp=?#<cr></cr></cr>
	Write	Direct Power On-on	<cr>*directpower=on#<cr></cr></cr>
	Write	Direct Power On-off	<cr>*directpower=off#<cr></cr></cr>
	Read	Direct Power On-Status	<cr>*directpower=?#<cr></cr></cr>
	Write	Signal Power On-on	<cr>*autopower=on#<cr></cr></cr>

	Write	Signal Dower On off	CD>*autonowor=off#/CD>
		Signal Power On Status	<cr>*autopower=off#<cr></cr></cr>
	Read	Signal Power On-Status	<cr>*autopower=?#<cr></cr></cr>
	Write	Standby	<cr>*standbynet=on#<cr></cr></cr>
	147.4	Settings-Network on	00 * 1
	Write	Standby	<cr>*standbynet=off#<cr></cr></cr>
		Settings-Network off	
	Read	Standby	<cr>*standbynet=?#<cr></cr></cr>
		Settings-Network Status	
	Write	Standby	<cr>*standbymic=on#<cr></cr></cr>
		Settings-Microphone on	
	Write	Standby	<cr>*standbymic=off#<cr></cr></cr>
		Settings-Microphone off	
	Read	Standby	<cr>*standbymic=?#<cr></cr></cr>
		Settings-Microphone Status	
	Write	Standby Settings-Monitor	<cr>*standbymnt=on#<cr></cr></cr>
		Out on	
	Write	Standby Settings-Monitor	<cr>*standbymnt=off#<cr></cr></cr>
		Out off	
Read		Standby Settings-Monitor	<cr>*standbymnt=?#<cr></cr></cr>
		Out Status	
	Write	2400	<cr>*baud=2400#<cr></cr></cr>
	Write	4800	<cr>*baud=4800#<cr></cr></cr>
	Write	9600	<cr>*baud=9600#<cr></cr></cr>
	Write	14400	<cr>*baud=14400#<cr></cr></cr>
Baud Rate	Write	19200	<cr>*baud=19200#<cr></cr></cr>
	Write	38400	<cr>*baud=38400#<cr></cr></cr>
	Write	57600	<cr>*baud=57600#<cr></cr></cr>
	Write	115200	<cr>*baud=115200#<cr></cr></cr>
	Read	Current Baud Rate	<cr>*baud=?#<cr></cr></cr>
	Read	Lamp Hour	<cr>*Itim=?#<cr></cr></cr>
	Read	Lamp2 Hour	<cr>*Itim2=?#<cr></cr></cr>
	Write	Normal mode	<cr>*lampm=Inor#<cr></cr></cr>
Lamp Control	Write	Eco mode	
	Write	Smart Eco mode	<cr>*lampm=seco#<cr></cr></cr>
	Write(雙燈)	Dual Brightest	<cr>* lampm =dualbr#<cr></cr></cr>
	Write(雙燈)	Dual Reliable	<cr>* lampm =dualre#<cr></cr></cr>
	(文/亞)	_ aar r tonabio	3.4 lampin dddion or

	Write(雙燈)	Single Alternative	<cr>* lampm =single#<cr></cr></cr>
	Write(雙燈)	Single Alternative Eco	<cr>* lampm =singleeco#<cr></cr></cr>
	Read	Lamp Mode Status	<cr>*lampm=?#<cr></cr></cr>
	Read	Model Name	<cr>*modelname=?#<cr></cr></cr>
	Write	Blank On	<cr>*blank=on#<cr></cr></cr>
	Write	Blank Off	<cr>*blank=off#<cr></cr></cr>
	Read	Blank Status	<cr>*blank=?#<cr></cr></cr>
	Write	Freeze On	<cr>*freeze=on#<cr></cr></cr>
	Write	Freeze Off	<cr>*freeze=off#<cr></cr></cr>
	Read	Freeze Status	<cr>*freeze=?#<cr></cr></cr>
	Write	Menu On	<cr>*menu=on#<cr></cr></cr>
	Write	Menu Off	<cr>*menu=off#<cr></cr></cr>
	Write	Up	<cr>*up#<cr></cr></cr>
	Write	Down	<cr>*down#<cr></cr></cr>
	Write	Right	<cr>*right#<cr></cr></cr>
	Write	Left	<cr>*left#<cr></cr></cr>
	Write	Enter	<cr>*enter#<cr></cr></cr>
	Write	3D Sync Off	<cr>*3d=off#<cr></cr></cr>
	Write	3D Auto	<cr>*3d=auto#<cr></cr></cr>
Miscellaneous	Write	3D Sync Top Bottom	<cr>*3d=tb#<cr></cr></cr>
	Write	3D Sync Frame	<cr>*3d=fs#<cr></cr></cr>
		Sequential	
	Write	3D Frame packing	<cr>*3d=fp#<cr></cr></cr>
	Write	3D Side by side	<cr>*3d=sbs#<cr></cr></cr>
	Write	3D inverter disable	<cr>*3d=da#<cr></cr></cr>
	Write	3D inverter	<cr>*3d=iv#<cr></cr></cr>
	Write	2D to 3D	<cr>*3d=2d3d#<cr></cr></cr>
	Write	3D nVIDIA	<cr>*3d=nvidia#<cr></cr></cr>
	Read	3D Sync Status	<cr>*3d=?#<cr></cr></cr>
	Write	Remote	<cr>*rr=fr#<cr></cr></cr>
		Receiver-front+rear	
	Write	Remote Receiver-front	<cr>*rr=f#<cr></cr></cr>
	Write	Remote Receiver-rear	<cr>*rr=r#<cr></cr></cr>
	Read	Remote Receiver Status	<cr>*rr=?#<cr></cr></cr>
	Write	Instant On-on	<cr>*ins=on#<cr></cr></cr>
	Write	Instant On-off	<cr>*ins=off#<cr></cr></cr>

Read	Instant On Status	<cr>*ins=?#<cr></cr></cr>
Write	Lamp Saver Mode-on	<cr>*Ipsaver=on#<cr></cr></cr>
Write	Lamp Saver Mode-off	<cr>*lpsaver=off#<cr></cr></cr>
Read	Lamp Saver Mode Status	<cr>*lpsaver=?#<cr></cr></cr>
Write	Projection Log In Code	<cr>*prjlogincode=on#<cr></cr></cr>
vviile	on	
Write	Projection Log In Code	<cr>*prjlogincode=off#<cr></cr></cr>
vvrite	off	
Read	Projection Log In Code	<cr>*prjlogincode=?#<cr></cr></cr>
Reau	Status	
Write	Broadcasting on	<cr>*broadcasting=on#<cr></cr></cr>
Write	Broadcasting off	<cr>*broadcasting=off#<cr></cr></cr>
Read	Broadcasting Status	<cr>*broadcasting=?<cr></cr></cr>
Write	AMX Device	<cr>*amxdd=on#<cr></cr></cr>
	Discovery-on	
Write	AMX Device	<cr>*amxdd=off#<cr></cr></cr>
	Discovery-off	
Read	AMX Device Discovery	<cr>*amxdd=?#<cr></cr></cr>
	Status	
Read	Mac Address	<cr>*macaddr=?#<cr></cr></cr>
Write	High Altitude mode on	<cr>*Highaltitude=on#<cr></cr></cr>
Write	High Altitude mode off	<cr>*Highaltitude=off#<cr></cr></cr>
Read	High Altitude mode	<cr>*Highaltitude=?#<cr></cr></cr>
	status	

Note: The above function will be vary from model to model. (ex: source, audio settings, aspect ratio..etc)

5. Command Category

Туре	Operation	ASCII	Note
Write	Power On	<cr>*pow=on#<cr></cr></cr>	Standby
Write	Power Off	<cr>*pow=off#<cr></cr></cr>	power on
Read	Power Status	<cr>*pow=?#<cr></cr></cr>	Standby, power on, cooling

Туре	Operation	ASCII	HEX
Write	Power On	<cr>*pow=on#<cr></cr></cr>	0D 2A 70 6F 77 3D 6F 6E 23 0D



Echo (ASCII)	Echo (Hex)			
>*pow=on#*POW=ON#	3E 2A 70 6F 77 3D 6F 6E 23 0D 0D 0A 2A 50			
	4F 57 3D 4F 4E 23 0D 0A			
If system already turn on and send command again				
If system already turn on and ser	nd command again			
If system already turn on and ser >*pow=on#*POW=ON#	ad command again 3E 2A 70 6F 77 3D 6F 6E 23 0D 0D 0A 2A 50			

Туре	Operation	ASCII		HEX
Write	Power Off	<cr>*pow=off#<cr></cr></cr>		0D 2A 70 6F 77 3D 6F 66 66 23
				0D
Echo ((ASCII)		Echo (Hex)	
>*pow	=off#*POW=OF	F#	3E 2A 70 6F 77 3D 6F 66 66 23 0D 0D 0A 2A 50	
		4F 57 3D 4F	46 46 23 0D 0A	
If syste	em already turn	off and ser	nd command a	again
>*pow	>*pow=off#*POW=OFF#		3E 2A 70 6F 77 3D 6F 66 66 23 0D 0D 0A 2A 50	
		4F 57 3D 4F	46 46 23 0D 0A	

Туре	Operation	ASCII		HEX
Read	Power Status	<cr>*pc</cr>	w=?# <cr></cr>	0D 2A 70 6F 77 3D 3F 23 0D
Echo (ASCII)		Echo (Hex)		
> *pov	v=?#ON#		3E 2A 70 6F	77 3D 3F 23 0D 0D 0A 2A 50 4F 57
		3D 4F 4E 23 0D 0A		
Note: This is in power on status.				
>*pow	=?#*POW=OFF	#	3E 2A 70 6F 77 3D 3F 23 0D 0D 0A 2A 50 4F 57	
		3D 4F 46 46	6 23 0D 0A	
Note: This is in power off status.				

5.1 Source Selection

Note: the command definition is for all input source, it may not be available for some model due to the difference of product specification

	and the second of product of the second of t					
Туре	Operation	ASCII	Note			
Write	Computer/YPbPr	<cr>*sour=RGB#<cr></cr></cr>	power on			
Write	Computer2/YPbPr2	<cr>*sour=RGB2#<cr></cr></cr>	power on			

Write	Component	<cr>*sour=YPbr#<cr></cr></cr>	power on
Write	Component2	<cr>*sour=YPbr2#<cr></cr></cr>	power on
Write	DVI-A	<cr>*sour=dviA#<cr></cr></cr>	power on
Write	DVI-D	<cr>*sour=dvid#<cr></cr></cr>	power on
Write	HDMI	<cr>*sour=hdmi#<cr></cr></cr>	power on
Write	HDMI 2	<cr>*sour=hdmi2#<cr></cr></cr>	power on
Write	Composite	<cr>*sour=vid#<cr></cr></cr>	power on
Write	S-VIDEO	<cr>*sour=svid#<cr></cr></cr>	power on
Write	Network	<cr>*sour=network#<cr></cr></cr>	power on
Write	USB Display	<cr>*sour=usbdisplay#<cr></cr></cr>	power on
Write	USB Reader	<cr>*sour=usbreader#<cr></cr></cr>	power on
Read	Current source	<cr>*sour=?#<cr></cr></cr>	power on

Туре	Operation	ASCII		HEX
Write	Computer	<cr>*sour=RGB#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 52 47 42 23 0D
Echo (ASCII)		Echo (Hex)		
>*sour=RGB#*SOUR=RGB#		3E 2A 73 6F 7	5 72 3D 52 47 42 23 0D 0D 0A 2A 53 4F	
		55 52 3D 52 4	7 42 23 0D 0A	

Туре	Operation	ASCII		HEX	
Write	Computer 2	<cr>*sour=RGB2#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 52 47 42 32 23	
				0D	
Echo (ASCII)			Echo (Hex)		
>*sour=RGB2#*SOUR=RGB2#			3E 2A 73 6F 75 72 3D 52 47 42 32 23 0D 0D 0A 2A 53		
		4F 55 52 3D 52 47 42 32 23 0D 0A			

Туре	Operation	ASCII		HEX	
Write	Component	<cr>*sour=YPbr#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 59 50 62 72	
				23 0D	
Echo (ASCII)			Echo (Hex)		
>*sour=YPbr#*SOUR=YPBR#			3E 2A 73 6F 75 72 3D 59 50 62 72 23 0D 0D 0A 2A 53		
			4F 55 52 3D 59 50	42 52 23 0D 0A	

Туре	Operation	ASCII	HEX
Write	Component2	<cr>*sour=YPbr2#<cr></cr></cr>	0D 2A 73 6F 75 72 3D 59 50 62
			72 32 23 0D



Echo (ASCII)	Echo (Hex)
>*sour=YPb2r#*SOUR=YPBR2#	3E 2A 73 6F 75 72 3D 59 50 62 32 72 23 0D 0D 0A 2A
	53 4F 55 52 3D 59 50 42 52 32 23 0D 0A

Туре	Operation	ASCII		HEX
Write	DVI-A	<cr>*sour=dviA#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 64 76 69 41 23
				0D
Echo (ASCII)			Echo (Hex)	
>*sour=dviA#*SOUR=DVIA#			3E 2A 73 6F	75 72 3D 64 76 69 41 23 0D 0D 0A 2A 53
			4F 55 52 3D	44 56 49 41 23 0D 0A

Туре	Operation	ASCII		HEX	
Write	DVI-D	<cr>*sour=dvid#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 64 76 69 64 23	
				0D	
Echo (ASCII)			Echo (Hex)		
>*sour=dvid#*SOUR=DVID#			3E 2A 73 6F 75 72 3D 64 76 69 64 23 0D 0D 0A 2A 53 4F		
		55 52 3D 44 56 49 44 23 0D 0A			

Туре	Operation	ASCII		HEX
Write	HDMI	<cr>*sour=hdmi#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 68 64 6D 69 23
				0D
Echo (ASCII)			Echo (Hex)	
>*sour=hdmi#*SOUR=HDMI#		3E 2A 73 6F 75 72 3D 68 64 6D 69 23 0D 0D 0A 2A		
		53 4F 55 52 3D 48 44 4D 49 23 0D 0A		

Туре	Operation	ASCII		HEX	
Write	HDMI2	<cr>*sour=hdmi2#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 68 64 6D 69 32	
				23 0D	
Echo (ASCII)			Echo (Hex)		
>*sour=hdmi2#*SOUR=HDMI2#			3E 2A 73 6F 75 72 3D 68 64 6D 69 32 23 0D 0D 0A 2A		
		53 4F 55 52 3D 48 44 4D 49 32 23 0D 0A			

Туре	Operation	ASCII		HEX
Write	Composite	<cr>*sour=vid#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 76 69 64 23 0D
Echo (ASCII)			Echo (Hex)	
>*sour=vid#*SOUR=VID#			3E 2A 73 6F	75 72 3D 76 69 64 23 0D 0D 0A 2A 53 4F

Туре	Operation	ASCII		HEX	
Write	SVIDEO	<cr>*sour=svid#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 73 76 69 64 23	
				0D	
Echo (ASCII)			Echo (Hex)		
>*sour=svid#*SOUR=SVID#			3E 2A 73 6F 75 72 3D 73 76 69 64 23 0D 0D 0A 2A 53		
		4F 55 52 3D 53 56 49 44 23 0D 0A			

Туре	Operation	ASCII		HEX	
Write	Network	<cr>*sour=network#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 6E 65 74	
				77 6F 72 6B 23 0D	
Echo (ASCII)			Echo (Hex)		
>*sour=	>*sour=network#*SOUR=NETWORK#			5 72 3D 6E 65 74 77 6F 72 6B 23	
			0D 0D 0A 2A 53 4F 55 52 3D 4E 45 54 57 4F 52		
			4B 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	USB Display	<cr>*sour=usbdis</cr>	splay# <mark><cr></cr></mark>	0D 2A 73 6F 75 72 3D 75
				73 62 64 69 73 70 6C 61
				79 23 0D
Echo (A	SCII)		Echo (Hex)	
>*sour=	usbdisplay#*SOL	IR=USBDISPLAY#	3E 2A 73 6F 75 7	72 3D 75 73 62 64 69 73 70
			6C 61 79 23 0D (OD 0A 2A 53 4F 55 52 3D 55
			53 42 44 49 53 5	0 4C 41 59 23 0D 0A

Туре	Operation	ASCII		HEX
Write	USB Reader	<cr>*sour=usbre</cr>	eader# <cr></cr>	0D 2A 73 6F 75 72 3D 75
				73 62 72 65 61 64 65 72 23
				0D
Echo (ASCII)		Echo (Hex)		
>*sour=	>*sour=usbreader#*SOUR=USBREADER#		3E 2A 73 6F 75 72 3D 75 73 62 72 65 61 64	
			65 72 23 0D 0D	0A 2A 53 4F 55 52 3D 55 53
			42 52 45 41 44 4	15 52 23 0D 0A



Туре	Operation	ASCII		HEX
Read	Current	<cr>*sour=?#<cr></cr></cr>		0D 2A 73 6F 75 72 3D 3F 23 0D
	source			
Echo (ASCII)		Echo (Hex)		
>*sour	>*sour=?#*SOUR=DVID#		3E 2A 73 6F 75 72 3D 3F 23 0D 0D 0A 2A 53 4F 55 52	
			3D 44 56 49	44 23 0D 0A

Note: This is an example for inquiry command with current source is DVI-D

5.2 Audio

Туре	Operation	ASCII	Note
Write	Mute On	<cr>*mute=on#<cr></cr></cr>	power on
Write	Mute Off	<cr>*mute=off#<cr></cr></cr>	power on
Read	Mute Status	<cr>*mute=?#<cr></cr></cr>	power on
Write	Volume +	<cr>*vol=+#<cr></cr></cr>	power on
Write	Volume -	<cr>*vol=-#<cr></cr></cr>	power on
Read	Volume Status	<cr>*vol=?#<cr></cr></cr>	power on
Write	Mic Volume +	<cr>*micvol=+#<cr></cr></cr>	power on
Write	Mic Volume -	<cr>*micvol=-#<cr></cr></cr>	power on
Read	Mic Volume Status	<cr>*micvol=?#<cr></cr></cr>	power on

Туре	Operation	ASCII		HEX
Write	Mute On	<cr>*mute=on#<cr></cr></cr>		0D 2A 6D 75 74 65 3D 6F 6E 23 0D
Echo (ASCII)		Echo (Hex)		
>*mute=on#*MUTE=ON#		3E 2A 6D 75	74 65 3D 6F 6E 23 0D 0D 0A 2A 4D 55	
			54 45 3D 4F	4E 23 0D 0A

Туре	Operation	ASCII		HEX	
Write	Mute Off	<cr>*mute=off#<cr></cr></cr>		=off# <cr> 0D 2A 6D 75 74 65 3D 6F 66 66 23 0D</cr>	
Echo (ASCII)		Echo (Hex)			
>*mut	>*mute=off#*MUTE=OFF#		3E 2A 6D 75 74 65 3D 6F 66 66 23 0D 0D 0A 2A 4D 55		
			54 45 3D 4F	46 46 23 0D 0A	

Туре	Operation	ASCII		HEX
Read	Mute Status	<cr>*mute=?#<cr></cr></cr>		0D 2A 6D 75 74 65 3D 3F 23 0D
Echo ((ASCII)	Ecl	no (Hex)	

>*mute=?#*MUTE=OFF#	3E 2A 6D 75 74 65 3D 3F 23 0D 0D 0A 2A 4D 55 54
	45 3D 4F 46 46 23 0D 0A

Note: This is an example for inquiry command with current mute is off.

Туре	Operation	ASCII		HEX
Write	Volume +	<cr>*vol=+#<cr></cr></cr>		0D 2A 76 6F 6C 3D 2B 23 0D
Echo ((ASCII)		Echo (Hex)	
>*vol=	+#*VOL=+#	3E 2A 76 6F		6C 3D 2B 23 0D 0D 0A 2A 56 4F 4C 3D
		2B 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Volume -	<cr>*vol=-#<cr></cr></cr>		0D 2A 76 6F 6C 3D 2D 23 0D
Echo ((ASCII)		Echo (Hex)	
>*vol=	-#*VOL=-#		3E 2A 76 6F 6C 3D 2D 23 0D 0D 0A 2A 56 4F 4C 3D	
			2D 23 0D 0A	

Type	Operation	ASCII		HEX	
Read	Volume	<cr>*vol=?#<cr></cr></cr>		vol=?# <cr> 0D 2A 76 6F 6C 3D 3F 23 0D</cr>	
Echo ((ASCII)		Echo (Hex)		
>*vol=	?#*VOL=5#	3E 2A 76 6F		6C 3D 3F 23 0D 0D 0A 2A 56 4F 4C 3D	
		35 23 0D 0A			

Note: This is an example for inquiry command with current volume is 5.

Type	Operation	ASCII		HEX
Read	Mic.	<cr>*micvol=+#<cr></cr></cr>		0D 2A 6D 69 63 76 6F 6C 3D 2B 23 0D
	Volume+			
Echo (Echo (ASCII)		Echo (Hex)	
>*micv	>*micvol=+#*MICVOL=+#		3E 2A 6D 69 63 76 6F 6C 3D 2B 23 0D 0D 0A 2A 4D	
			49 43 56 4F	4C 3D 2B 23 0D 0A

Type	Operation	ASCII		HEX	
Read	Mic. Volume-	<cr>*micvol=-#<cr></cr></cr>		0D 2A 6D 69 63 76 6F 6C 3D 2D 23 0D	
Echo (ASCII)		Echo (Hex)			
>*micvol=-#*MICVOL=-#		3E 2A 6D 69 63 76 6F 6C 3D 2D 23 0D 0D 0A 2A 4D			
		49 43 56 4F	4C 3D 2D 23 0D 0A		



Туре	Operation	ASCII		HEX
Read	Mic. Volume	<cr>*micvol=?#<cr></cr></cr>		0D 2A 6D 69 63 76 6F 6C 3D 3F 23 0D
	Status			
Echo (ASCII)		Echo (Hex)		
>*micvol=?#*MICVOL=5#		3E 2A 6D 69 63 76 6F 6C 3D 3F 0D 0D 0A 2A 4D 49		
		43 56 4F 4C	3D 35 23 0D 0A	

Note: This is an example for inquiry command with current volume is 5.

5.3 Audio source select

Туре	Operation	ASCII	Note
Write	Audio pass Through off	<cr>*audiosour=off#<cr></cr></cr>	power on
Write	Audio-Computer1	<cr>*audiosour=RGB#<cr></cr></cr>	power on
Write	Audio-Computer2	<cr>*audiosour=RGB2#<cr></cr></cr>	power on
Write	Audio-Video/S-Video	<cr>*audiosour=vid#<cr></cr></cr>	power on
Write	Audio-Component	<cr>*audiosour=ypbr#<cr></cr></cr>	power on
Write	Audio-HDMI	<cr>*audiosour=hdmi#<cr></cr></cr>	power on
Write	Audio-HDMI2	<cr>*audiosour=hdmi2#<cr></cr></cr>	power on
Read	Audio pass Status	<cr>*audiosour=?#<cr></cr></cr>	power on

Туре	Operation	ASCII		HEX	
Write	Audio pass	<cr>*audiosour=off#<cr></cr></cr>		0D 2A 61 75 64 69 6F 73 6F 75	
	Through off			72 3D 6F 66 66 23 0D	
Echo (ASCII)		Echo (Hex)			
>*audio	sour=off#*AUDI	OSOUR=OFF#	3E 2A 61 75 64 69 6F 73 6F 75 72 3D 6F 66 66		
		23 0D 0D 0A 2A 41 55 44 49 4F 53 4F 55 52 3D			
			4F 46 46 23 0D 0A		

Туре	Operation	ASCII		HEX	
Write	Audio-Computer1	<cr>*audiosour=RGB#<cr></cr></cr>		0D 2A 61 75 64 69 6F 73 6F	
				75 72 3D 52 47 42 23 0D	
Echo (ASCII)			Echo (Hex)		
>*audio	sour=RGB#*AUDIO	SOUR=RGB#	3E 2A 61 75 64	69 6F 73 6F 75 72 3D 52 47	
			42 23 0D 0D 0A	A 2A 41 55 44 49 4F 53 4F 55	
			52 3D 52 47 42	23 0D 0A	

Туре	Operation	ASCII	HEX

Write	Audio-Computer2	<cr>*audiosour=RGB2#<cr></cr></cr>		0D 2A 61 75 64 69 6F 73
				6F 75 72 3D 52 47 42 32
				23 0D
Echo (ASCII)			Echo (Hex)	
>*audio	>*audiosour=RGB2#*AUDIOSOUR=RGB2#		3E 2A 61 75 64	69 6F 73 6F 75 72 3D 52 47
		42 32 23 0D 0D 0A 2A 41 55 44 49 4F 53		
		4F 55 52 3D 52	47 42 32 23 0D 0A	

Type	Operation	ASCII		HEX
Write	Audio-Video/S-Video	<cr>*audiosour=vid#<cr></cr></cr>		0D 2A 61 75 64 69 6F 73
				6F 75 72 3D 76 69 64 23
				0D
Echo (A	SCII)		Echo (Hex)	
>*audio	>*audiosour=vid#*AUDIOSOUR=VID#			69 6F 73 6F 75 72 3D 76
			69 64 23 0D 0D 0A 2A 41 55 44 49 4F 53	
			4F 55 52 3D 56	6 49 44 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Audio-Component	<cr>*audiosour=ypbr#<cr></cr></cr>		0D 2A 61 75 64 69 6F 73 6F
				75 72 3D 79 70 62 72 23 0D
Echo (A	Echo (ASCII)		Echo (Hex)	
>*audio	sour=ypbr#*AUDIOS	SOUR=YPBR#	3E 2A 61 75 64 69 6F 73 6F 75 72 3D 79 70	
		62 72 23 0D 0E	0 0A 2A 41 55 44 49 4F 53 4F	
		55 52 3D 59 50 42 52 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Audio-HDMI	<cr>*audiosour=hdmi#<cr></cr></cr>		0D 2A 61 75 64 69 6F 73 6F
				75 72 3D 79 70 62 72 23 0D
Echo (A	Echo (ASCII)		Echo (Hex)	
>*audio	sour=hdmi#*AUE	DIOSOUR=HDMI#	3E 2A 61 75 64 69 6F 73 6F 75 72 3D 68 64	
		6D 69 23 0D 0E	O 0A 2A 41 55 44 49 4F 53 4F	
		55 52 3D 48 44 4D 49 23 0D 0A		

Туре	Operation	ASCII	HEX
Write	Audio-HDMI2	<cr>*audiosour=hdmi2#<cr></cr></cr>	0D 2A 61 75 64 69 6F 73
			6F 75 72 3D 79 70 62 72
			32 23 0D

Echo (ASCII)			Echo (Hex)	
>*audiosour=hdmi2#*AUDIOSOUR=HDMI2#			3E 2A 61 75 64	69 6F 73 6F 75 72 3D 68 64
			6D 69 32 23 0D	0D 0A 2A 41 55 44 49 4F
			53 4F 55 52 3D	48 44 4D 49 32 23 0D 0A
Туре	Operation	ASCII		HEX
Write	Audio pass	<cr>*audiosour=1</cr>	?# <cr></cr>	0D 2A 61 75 64 69 6F 73
	Status			6F 75 72 3D 79 70 62 72
				32 23 0D
Echo (A	SCII)		Echo (Hex)	
>*audiosour=?#*AUDIOSOUR=?#		3E 2A 61 75 64 69 6F 73 6F 75 72 3D 3F		
		23 0D 0D 0A 2A 41 55 44 49 4F 53 4F 55		
			52 3D 3F 23 0D 0A	

5.4 Picture Mode

Туре	Operation	ASCII	Note
Write	Dynamic	<cr>*appmod=dynamic#<cr></cr></cr>	Source Display
Write	Bright	<cr>*appmod=bright#<cr></cr></cr>	Source Display
Write	Living Room	<pre><cr>*appmod=livingroom#<cr></cr></cr></pre>	Source Display
Write	Game	<cr>*appmod=game#<cr></cr></cr>	Source Display
Write	Presentation	<cr>*appmod=preset#<cr></cr></cr>	Source Display
Write	sRGB	<cr>*appmod=srgb#<cr></cr></cr>	Source Display
Write	High	<cr>*appmod=hibr#<cr></cr></cr>	Source Display
	Brightness		
Write	Cinema	<cr>*appmod=cine#<cr></cr></cr>	Source Display
Write	Standard	<cr>*appmod=std#<cr></cr></cr>	Source Display
Write	User1	<cr>*appmod=user1#<cr></cr></cr>	Source Display
Write	User2	<cr>*appmod=user2#<cr></cr></cr>	Source Display
Write	User3	<cr>*appmod=user3#<cr></cr></cr>	Source Display
Write	ISF Day	<cr>*appmod=isfday#<cr></cr></cr>	Source Display
Write	ISF Night	<cr>*appmod=isfnight#<cr></cr></cr>	Source Display
Write	3D	<cr>*appmod=threed#<cr></cr></cr>	Source Display
Read	Picture Mode	<cr>*appmod=?#<cr></cr></cr>	Source Display

Туре	Operation	ASCII	HEX
Write	Dynamic	<cr>*appmod=dynamic#<cr></cr></cr>	0D 2A 61 70 70 6D 6F 64
			3D 64 79 6E 61 6D 69 63 23
			0D



Echo (ASCII)	Echo (Hex)
>*appmod=dynamic#*APPMOD=DYNAMIC#	3E 2A 61 70 70 6D 6F 64 3D 64 79 6E
	61 6D 69 63 23 0D 0D 0A 2A 41 50 50
	4D 4F 44 3D 44 59 4E 41 4D 49 43 23
	0D 0A

Туре	Operation	ASCII		HEX
Write	Bright	<cr>*appmod=bright#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64
				3D 62 72 69 67 68 74 23 0D
Echo (ASCII)			Echo (Hex)	
>*appm	>*appmod=bright#*APPMOD=BRIGHT#			70 70 6D 6F 64 3D 62 72 69
			67 68 74	23 0D 0D 0A 2A 41 50 50 4D
			4F 44 3D	0 42 52 49 47 48 54 23 0D
			0A	

Туре	Operation	ASCII	HEX	
Write	Living Room	<cr>*appmod=livingroom#<cr></cr></cr>		0D 2A 61 70 70 6D 6F
				64 3D 6C 69 76 69 6E
				67 72 6F 6F 6D 23 0D
Echo (A	SCII)		Echo (Hex)	
>*appm	od=livingroom#* <i>F</i>	APPMOD=LIVINGROOM#	3E 2A 61	70 70 6D 6F 64 3D 6C 69
				67 72 6F 6F 6D 23 0D 0D
				50 50 4D 4F 44 3D 4C 49
			56 49 4E	47 52 4F 4F 4D 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Game	<cr>*appmod=game#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64
				3D 67 61 6D 65 23 0D
Echo (ASCII)			Echo (Hex)	
>*appmod=game#*APPMOD=GAME#			3E 2A 61	70 70 6D 6F 64 3D 67 61 6D
			65 23 0D	0D 0A 2A 41 50 50 4D 4F 44
				4D 45 23 0D 0A

Туре	Operation	ASCII	HEX
Write	Presentation	<cr>*appmod=preset#<cr></cr></cr>	0D 2A 61 70 70 6D 6F 64
			3D 70 72 65 73 65 74 23 0D



Echo (ASCII)	Echo (Hex)
>*appmod=preset#*APPMOD=PRESET#	3E 2A 61 70 70 6D 6F 64 3D 70 72 65 73 65
	74 23 0D 0D 0A 2A 41 50 50 4D 4F 44 3D 50
	52 45 53 45 54 23 0D 0A

Туре	Operation	ASCII		HEX
Write	sRGB	<cr>*appmod=srgb#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D 73
				72 67 62 23 0D
Echo (ASCII)			Echo (Hex)	
>*appmod=srgb#*APPMOD=SRGB#		3E 2A 61 70 70	6D 6F 64 3D 73 72 67 62 23 0D	
			0D 0A 2A 41 50	50 4D 4F 44 3D 53 52 47 42 23
			0D 0A	

Туре	Operation	ASCII		HEX
Write	Cinema	<cr>*appmod=cine#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D 63
				69 6E 65 23 0D
Echo (ASCII)			Echo (Hex)	
>*appmod=cine#*APPMOD=CINE#		3E 2A 61 70 70	6D 6F 64 3D 63 69 6E 65 23 0D	
			0D 0A 2A 41 50) 50 4D 4F 44 3D 43 49 4E 45 23
			0D 0A	

Туре	Operation	ASCII		HEX
Write	Standard	<cr>*appmod=std#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D 73 74
				64 23 0D
Echo (ASCII)			Echo (Hex)	
>*appmod=std#*APPMOD=STD#			3E 2A 61 70 70	0 6D 6F 64 3D 73 74 64 23 0D 0D 0A
			2A 41 50 50 4	O 4F 44 3D 53 54 44 23 0D 0A

Туре	Operation	ASCII		HEX
Write	User1	<cr>*appmod=user1#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D 75 73
				65 72 31 23 0D
Echo (ASCII)			Echo (Hex)	
>*appmod= user1#		3E 2A 61 70 70 6	6D 6F 64 3D 75 73 65 72 31 23 0D 0D	
*APPMOD=USER1#			0A 2A 41 50 50 4	4D 4F 44 3D 55 53 45 52 31 23 0D 0A

Туре	Operation	ASCII		HEX	
Write	User2	<cr>*appmod=user2#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D 75 73	
				65 72 32 23 0D	
Echo (ASCII)			Echo (Hex)		
>*appmod=user2#		3E 2A 61 70 70 6D 6F 64 3D 75 73 65 72 32 23 0D 0D 0A			
*APPMOD=USER2#			2A 41 50 50 4D 4F	44 3D 55 53 45 52 32 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	User3	<cr>*appmod=user3#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D 75 73
				65 72 33 23 0D
Echo (ASCII)		Echo (Hex)		
>*appmod= user3#		3E 2A 61 70 70 6	6D 6F 64 3D 75 73 65 72 33 23 0D 0D	
*APPMOD=USER3#		0A 2A 41 50 50 4	4D 4F 44 3D 55 53 45 52 33 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	ISF Day	<cr>*appmod=isfday#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D
				69 73 66 64 61 79 23 0D
Echo (A	SCII)		Echo (Hex)	
>*appmod=isfday#*APPMOD=ISFDAY#		3E 2A 61 70 70 6D 6F 64 3D 69 73 66 64 61		
			79 23 0D 0D 0A	A 2A 41 50 50 4D 4F 44 3D 49
			53 46 44 41 59	23 0D 0A

Туре	Operation	ASCII		HEX
Write	ISF night	<cr>*appmod=isfnight#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64
				3D 69 73 66 6E 69 67 68
				74 23 0D
Echo (AS	SCII)		Echo (Hex)	
>*appmc	d=isfnight#*AF	PPMOD=ISFNIGHT#	3E 2A 61 70 70	6D 6F 64 3D 69 73 66 6E
			69 67 68 74 23	0D 0D 0A 2A 41 50 50 4D
			4F 44 3D 49 53	46 4E 49 47 48 54 23 0D

Туре	Operation	ASCII		HEX
Write	3D	<cr>*appmod=threed#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64
				3D 74 68 72 65 65 64 23 0D
Echo (ASCII)			Echo (Hex)	
>*appmod=threed#*APPMOD=THREED#			3E 2A 61 70 70	6D 6F 64 3D 74 68 72 65 65



64 23 0D 0D 0A 2A 41 50 50 4D 4F 44 3D 54
48 52 45 45 44 23 0D 0A

Туре	Operation	ASCII		HEX	
Read	Picture	<cr>*appmod=?#<cr></cr></cr>		0D 2A 61 70 70 6D 6F 64 3D 3F 23	
	Mode			0D	
Echo (ASCII)			Echo (Hex)		
>*appmod=?#*APPMOD=SRGB#			3E 2A 61 70 70 6D 6F 64 3D 3F 23 0D 0D 0A 2A 41		
			50 50 4D 4F 4	14 3D 53 52 47 42 23 0D 0A	

Note: This is an example for inquiry command with current mode is SRGB.

5.5 Baud Rate

Туре	Operation	ASCII	Note
Write	2400	<cr>*baud=2400#<cr></cr></cr>	power on
Write	4800	<cr>*baud=4800#<cr></cr></cr>	power on
Write	9600	<cr>*baud=9600#<cr></cr></cr>	power on
Write	14400	<cr>*baud=14400#<cr></cr></cr>	power on
Write	19200	<cr>*baud=19200#<cr></cr></cr>	power on
Write	38400	<cr>*baud=38400#<cr></cr></cr>	power on
Write	57600	<cr>*baud=57600#<cr></cr></cr>	power on
Write	115200	<cr>*baud=115200#<cr></cr></cr>	power on
Read	Baud Rate	<cr>*baud=?#<cr></cr></cr>	power on

Туре	Operation	ASCII		HEX
Write	9600	<cr>*baud=9600#<cr></cr></cr>		0D 2A 62 61 75 64 3D 39 36 30 30 23
				0D
Echo (ASCII)		Echo (Hex)		
>*baud=9600#*BAUD=9600#		3E 2A 62 61 75 64 3D 39 36 30 30 23 0D 0D 0A 2A 42		
		41		
		55 44 3D 39 3	6 30 30 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	19200	<cr>*baud=19200#<cr></cr></cr>		0D 2A 62 61 75 64 3D 31 39 32 30
				30 23 0D
Echo (/	ASCII)		Echo (Hex)	



>*baud=19200#*BAUD=19200#	3E 2A 62 61 75 64 3D 31 39 32 30 30 23 0D 0D 0A
	2A 42 41 55 44 3D 31 39 32 30 30 23 0D 0A

Туре	Operation	ASCII		HEX
Write	38400	<cr>*baud=38400#<cr></cr></cr>		0D 2A 62 61 75 64 3D 33 38 34 30 30
				23 0D
Echo (ASCII)			Echo (Hex)	
>*baud=38400#*BAUD=38400#		3E 2A 62 61 75 64 3D 33 38 34 30 30 23 0D 0D 0A		
		2A 42 41 5	5 44 3D 33 38 34 30 30 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	57600	<cr>*baud=57600#<cr></cr></cr>		0D 2A 62 61 75 64 3D 35 37 36 30
				30 23 0D
Echo (ASCII)			Echo (Hex)	
>*baud=57600#*BAUD=57600#			3E 2A 62 61 75	5 64 3D 35 37 36 30 30 23 0D 0D 0A
			2A 42 41 55 44	4 3D 35 37 36 30 30 23 0D 0A

Туре	Operation	ASCII		HEX	
Write	115200	<cr>*baud=115200#<cr></cr></cr>		0D 2A 62 61 75 64 3D 31 31 35	
				32 30 30 23 0D	
Echo (ASCII)			Echo (Hex)		
>*baud=115200#*BAUD=115200#		3E 2A 62 61 75 64 3D 31 31 35 32 30 30 23 0D			
		0D 0A 2A 42 41 55 44 3D 31 31 35 32 30 30 23			
			0D 0A		

Туре	Operation	ASCII		HEX
Read	Baud Rate	<cr>*baud=?#<cr></cr></cr>		0D 2A 62 61 75 64 3D 3F 23 0D
Echo ((ASCII)		Echo (Hex)	
>*bau	>*baud=?#*BAUD=115200#		3E 2A 0D 2A	62 61 75 64 3D 3F 23 0D 0D 0A 2A 42
			41 55 44 3D 3	31 31 35 32 30 30 23 0D 0A

Note: This is an example for inquiry command with current baud rate is 115200.

5.6 Picture Setting

Type	Operation	ASCII	Note
Write	Contrast +	<cr>*con=+#<cr></cr></cr>	power on
Write	Contrast -	<cr>*con=-#<cr></cr></cr>	power on

Read	Contrast value	<cr>*con=?#<cr></cr></cr>	power on
Write	Brightness +	<cr>*bri=+#<cr></cr></cr>	power on
Write	Brightness -	<cr>*bri=-#<cr></cr></cr>	power on
Read	Brightness value	<cr>*bri=?#<cr></cr></cr>	power on
Write	Color +	<cr>*color=+#<cr></cr></cr>	power on
Write	Color -	<cr>*color=-#<cr></cr></cr>	power on
Read	Color value	<cr>*color=?#<cr></cr></cr>	power on
Write	Sharpness +	<cr>*sharp=+#<cr></cr></cr>	power on
Write	Sharpness -	<cr>*sharp=-#<cr></cr></cr>	power on
Read	Sharpness value	<cr>*sharp=?#<cr></cr></cr>	power on
Write	Color	<cr>*ct=warmer#<cr></cr></cr>	power on
	Temperature-Warmer		
Write	Color	<cr>*ct=warm#<cr></cr></cr>	power on
	Temperature-Warm		
Write	Color	<cr>*ct=normal#<cr></cr></cr>	power on
	Temperature-Normal		
Write	Color	<cr>*ct=cool#<cr></cr></cr>	power on
	Temperature-Cool		
Write	Color	<cr>*ct=cooler#<cr></cr></cr>	power on
	Temperature-Cooler		
	Color	<cr>*ct=native#<cr></cr></cr>	power on
Write	Temperature-Lamp		
	Native		
Read	Color Temperature	<cr>*ct=?#<cr></cr></cr>	power on
	Status		
Write	Aspect 4:3	<cr>*asp=4:3#<cr></cr></cr>	power on
Write	Aspect 16:9	<cr>*asp=16:9#<cr></cr></cr>	power on
Write	Aspect Auto	<cr>*asp=AUTO#<cr></cr></cr>	power on
Write	Aspect Real	<cr>*asp=REAL#<cr></cr></cr>	power on
Write	Aspect Letterbox	<cr>*asp=LBOX#<cr></cr></cr>	power on
Write	Aspect Wide	<cr>*asp=WIDE#<cr></cr></cr>	power on
Write	Aspect Anamorphic	<cr>*asp=ANAM#<cr></cr></cr>	power on
Read	Aspect Status	<cr>*asp=?#<cr></cr></cr>	power on
Write	Zoom In	<cr>*zoomI#<cr></cr></cr>	power on
Write	Zoom out	<cr>*zoomO#<cr></cr></cr>	power on
Write	Auto	<cr>*auto#<cr></cr></cr>	power on, RGB source with



signal

Туре	Operation	ASCII		HEX
Write	Contrast +	<cr>*con=+#<cr></cr></cr>		0D 2A 63 6F 6E 3D 2B 23 0D
Echo ((ASCII)		Echo (Hex)	
>*con=+#*CON=+#		3E 2A 63 6F 6E 3D 2B 23 0D 0D 0A 2A 43 4F 4E 3D		
		2B 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Contrast -	<cr>*con=-#<cr></cr></cr>		0D 2A 63 6F 6E 3D 2D 23 0D
Echo ((ASCII)		Echo (Hex)	
>*con	=-#*CON=-#	3E 2A 63 6F		6E 3D 2D 23 0D 0D 0A 2A 43 4F 4E 3D
		2D 23 0D 0A	A	

Туре	Operation	ASCII		HEX
Read	Contrast	<cr>*con=?#<cr></cr></cr>		0D 2A 63 6F 6E 3D 3F 23 0D
	value			
Echo (ASCII)		Echo (Hex)	
>*con=?#*CON=0#		3E 2A 63 6F 6E 3D 3F 23 23 0D 0D 0A 2A 43 4F 4E 3D		
		30 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Brightness +	<cr>*bri=+#<cr></cr></cr>		0D 2A 62 72 69 3D 2B 23 0D
Echo (ASCII)		Echo (Hex)	
>*bri=+#*BRI=+#		3E 2A 62 72 69 3D 2B 23 0D 0D 0A 2A 42 52 49 3D 2B		
			23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Brightness -	<cr>*bri=-#<cr></cr></cr>		0D 2A 62 72 69 3D 2D 23 0D
Echo ((ASCII)		Echo (Hex)	
>*bri=-#*BRI=-#		3E 2A 62 72 69 3D 2D 23 0D 0D 0A 2A 42 52 49 3D		
			2D 23 0D 0A	

Туре	Operation	ASCII	HEX
Read	Brightness	<cr>*bri=?#<cr></cr></cr>	0D 2A 62 72 69 3D 3F 23 0D
	value		



Echo (ASCII)	Echo (Hex)
>*bri=?#*BRI=50#	3E 2A 62 72 69 3D 3F 23 23 0D 0D 0A 2A 42 52 49 3D
	35 30 23 0D 0A

Туре	Operation	ASCII		HEX	
Write	Color +	<cr>*color=+#<cr></cr></cr>		=+# <cr> 0D 2A 63 6F 6C 6F 72 3D 2B 23 0D</cr>	
Echo (ASCII)		Echo (Hex)			
>*color=+#*COLOR=+#		3E 2A 63 6F 6C 6F 72 3D 2B 23 0D 0D 0A 2A 43 4F			
		4C 4F 52 3D	2B 23 0D 0A		

Туре	Operation	ASCII		HEX	
Write	Color -	<cr>*color=-#<cr></cr></cr>		=-# <cr> 0D 2A 63 6F 6C 6F 72 3D 2D 23 0D</cr>	
Echo (ASCII) Echo (Hex		Echo (Hex)			
>*colo	r=-#*COLOR=-	DLOR=-# 3E 2A 63 6F		6C 6F 72 3D 2D 23 0D 0D 0A 2A 43 4F	
		4C 4F 52 3D 2D 23 0D 0A			

Type	Operation	ASCII		HEX
Read	Color Value	<cr>*color=?#<cr></cr></cr>		0D 2A 63 6F 6C 6F 72 3D 3F 23 0D
Echo (ASCII)		Echo (Hex)		
>*color=?#*COLOR=50 #		3E 2A 63 6F	6C 6F 72 3D 3F 23 0D 0D 0A 2A 43 4F	
		4C 4F 52 3D	35 30 23 0D 0A	

Туре	Operation	ASCII		HEX	
Write	Sharpness +	<cr>*sharp=+#<cr></cr></cr>		0D 2A 73 68 61 72 70 3D 2B 23 0D	
Echo (ASCII)		Echo (Hex)			
>*shar	>*sharp=+#*SHARP=+# 3E		3E 2A 73 68 61 72 70 3D 2B 23 0D 0D 0A 2A 53 48 41		
		52 50 3D 2B	23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Sharpness	<cr>*sharp=-#<cr></cr></cr>		0D 2A 73 68 61 72 70 3D 2D 23 0D
Echo (ASCII)		Echo (Hex)		
>*s=-#sharp*SHARP=-#		3E 2A 73 68 61 72 70 3D 2D 23 0D 0D 0A 2A 53 48 41		
		52 50 3D 2D	23 0D 0A	

Type	Operation	ASCII	HEX



Read	Sharpness Value	<cr>*sharp=?#<cr></cr></cr>		0D 2A 73 68 61 72 70 3D 3F 23 0D
Echo (tho (ASCII) Echo (Hex		Echo (Hex)	
>*sharp=?#*SHARP=0 #		3E 2A 73 68	61 72 70 3D 3F 23 0D 0D 0A 2A 53 48 41	
(vary by picture mode)		52 50 3D 30	23 0D 0A	

Туре	Operation	ASCII		HEX	
Write	Color	<cr>*ct=warmer#<cr></cr></cr>		0D 2A 63 74 3D 77 61 72 6D 65	
	Temperature-Warmer			72 23 0D	
Echo (ASCII)		Echo (Hex)			
>*ct=v	>*ct=warmer#*CT=WARMER#		3E 2A 63 74 3D 77 61 72 6D 65 72 23 0D 0D		
			0A 2A 43 54 3D 57 41 52 4D 45 52 23 0D 0A		

Туре	Operation	ASCII		HEX	
Write	Color	<cr>*ct=warm#<cr></cr></cr>		0D 2A 63 74 3D 77 61 72 6D 23 0D	
	Temperature-Warm				
Echo (ASCII)		Echo (Hex)		
>*ct=v	>*ct=warm#*CT=WARM#		3E 2A 63 74 3D 77 61 72 6D 23 0D 0D 0A 2A 43		
			54 3D 57 41 52 4D 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Color	<cr>*ct=normal#<cr></cr></cr>		0D 2A 63 74 3D 6E 6F 72 6D 61
	Temperature-Normal			6C 23 0D
Echo (ASCII)			Echo (Hex)	
>*ct=n	>*ct=normal#*CT=NORMAL #		3E 2A 63 74 3D 6E 6F 72 6D 61 6C 23 0D 0D 0A	
			2A 43 54 3D	4E 4F 52 4D 41 4C 23 0D 0A

Туре	Operation	ASCII		HEX	
Write	Color	<cr>*ct=cool#<cr></cr></cr>		0D 2A 63 74 3D 63 6F 6F 6C 23 0D	
	Temperature-Cool				
Echo (ASCII)			Echo (Hex)		
>*ct=c	>*ct=cool#*CT=COOL#		3E 2A 63 74 3D 63 6F 6F 6C 23 0D 0D 0A2A 43 54		
			3D 43 4F 4F	4C 23 0D 0A	

Туре	Operation	ASCII	HEX
Write	Color	<cr>*ct=cooler#<cr></cr></cr>	0D 2A 63 74 3D 63 6F 6F 6C 65 72
	Temperature-Cool		23 0D



Echo (ASCII)	Echo (Hex)
>*ct=cooler#*CT=COOLER#	3E 2A 63 74 3D 63 6F 6F 6C 65 72 23 0D 0D 0A 2A
	43 54 3D 43 4F 4F 4C 45 52 23 0D 0A

Туре	Operation	ASCII		HEX
Read	Color	<cr>*ct=native#<cr></cr></cr>		0D 2A 63 74 3D 6E 61 74 69 76 65
	Temperature-Lamp			23 0D
	Native			
Echo (ASCII)		Echo (Hex)		
>*ct=native#*CT=NATIVE#		3E 2A 63 74 3D 6E 61 74 69 76 65 23 0D 0D 0A		
			2A 43 54 3D	4E 41 54 49 56 45 23 0D 0A

Туре	Operation	ASCII		HEX
Read	Color	<cr>*ct=?#<cr></cr></cr>		0D 2A 63 74 3D 3F 23 0D
	Temperature			
	status			
Echo ((ASCII)		Echo (Hex)	
>*ct=?#*CT=NORMAL #		3E 2A 63 74	3D 3F 23 0D 0D 0A 2A 43 54 3D 4E 4F 52	
(For example: current status =		4D 41 4C 23 0D 0A		
norma	normal)			

Туре	Operation	ASCII		HEX
Write	Aspect 4:3	<cr>*asp=4:3#<cr></cr></cr>		0D 2A 61 73 70 3D 34 3A 33 23 0D
Echo (ASCII)			Echo (Hex)	
>*asp=4:3#*ASP=4:3#			3E 2A 61 73	70 3D 34 3A 33 23 0D 0D 0A 2A 41 53 50
			3D 34 3A 33	23 0D 0A

Туре	Operation	ASCII		HEX
Write	Aspect 16:9	<cr>*asp</cr>	=16:9# <mark><cr></cr></mark>	0D 2A 61 73 70 3D 31 36 3A 39 23 0D
Echo (ASCII)			Echo (Hex)	
>*asp=16:9#*ASP=16:9#		3E 2A 61 73	3 70 3D 31 36 3A 39 23 0D 0D 0A 2A 41 53	
			50 3D 31 36	6 3A 39 23 0D 0A

Туре	Operation	ASCII	HEX
Write	Aspect Auto	<cr>*asp=AUTO#<cr></cr></cr>	0D 2A 61 73 70 3D 41 55 54 4F 23 0D



Echo (ASCII)	Echo (Hex)	
>*asp=AUTO#*ASP=AUTO#	3E 2A 61 73 70 3D 41 55 54 4F 23 0D 0D 0A 2A 41	
	53 50 3D 41 55 54 4F 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Aspect Real	<cr>*asp=</cr>	=REAL# <cr></cr>	0D 2A 61 73 70 3D 52 45 41 4C 23 0D
Echo (ASCII)		Echo (Hex)		
>*asp=REAL#*ASP=REAL#		3E 2A 61 73 70 3D 52 45 41 4C 23 0D 0D 0A 2A 41		
			53 50 3D 52 4	5 41 4C 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Aspect Letterbox	<cr>*asp=LBOX#<cr></cr></cr>		0D 2A 61 73 70 3D 4C 42 4F 58 23 0D
Echo (ASCII)		Echo (Hex)		
>*asp=LBOX#*ASP=LBOX#		3E 2A 61 73 70 3D 4C 42 4F 58 23 0D 0D 0A 2A 41		
		53 50 3D 4C 42	4F 58 23 0D 0A	

Туре	Operation	ASCII		HEX	
Write	Aspect	<cr>*asp=ANAM#<cr></cr></cr>		0D 2A 61 73 70 3D 41 4E 41 4D 23 0D	
	Anamorphic				
Echo (ASCII)			Echo (Hex)		
>*asp=ANAM#*ASP=ANAM#			3E 2A 61 73 70 3D 41 4E 41 4D 23 0D 0D 0A 2A 41		
			53 50 3D 41 4E	41 4D 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Aspect Status	<cr>*asp=?#<cr></cr></cr>		0D 2A 61 73 70 3D 3F 23 0D
Echo (ASCII)		Echo (Hex)		
>*asp=?#*ASP=?#		3E 2A 61 73 70 3D 3F 23 0D 0D 0A 2A 41 53 50 3D		
			3F 23 0D 0A	

Туре	Operation	ASCII		HEX	
Write	Aspect Wide	<cr>*asp=WIDE#<cr></cr></cr>		0D 2A 61 73 70 3D 57 49 44 45 23 0D	
Echo (ASCII)			Echo (Hex)		
>*asp=WIDE#*ASP=WIDE#			3E 2A 61 73 70 3D 57 49 44 45 23 0D 0D 0A 2A 41 53		
			50 3D 57 49 44 45 23 0D 0A		



Туре	Operation	ASCII			HEX
Write	Zoom In	<cr>*zoo</cr>	ml# <cr></cr>		0D 2A 7A 6F 6F 6D 49 23 0D
Echo (ASCII)			Echo (Hex)		
>*zooml #*ZOOMI#			3E 2A 7A 6F 6F 6D 49 23 0D 0D 0A 2A 5A 4F 4F 4D 49		
			23 0D 0A		

Туре	Operation	ASCII		HEX	
Write	Zoom Out	<cr>*zoo</cr>	mO# <cr></cr>	0D 2A 7A 6F 6F 6D 4F 23 0D	
Echo (ASCII)			Echo (Hex)		
>*zoomO #*ZOOMO #			3E 2A 7A 6F 6F 6D 4F 23 0D 0D 0A 2A 5A 4F 4F 4D 4F		
			23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Auto	<cr>*auto</cr>	# <cr></cr>	0D 2A 61 75 74 6F 23 0D
Echo (ASCII)			Echo (Hex)	
>*auto#*AUTO#			3E 2A 61 75 74 6F 23 0D 0D 0A 2A 41 55 54 4F 23 0D	
		0A		

5.7 Lamp Control

Туре	Operation	ASCII	Note
Read	Lamp Hour	<cr>*Itim=?#<cr></cr></cr>	Lamp usage hour, standby,
			power on
Read	Lamp2 Hour	<cr>*Itim2=?#<cr></cr></cr>	Lamp usage hour, standby,
			power on
Write	Normal mode	<cr>*lampm=Inor#<cr></cr></cr>	Power on
Write	Economic mode	<cr>* lampm =eco#<cr></cr></cr>	Power on
Write	Smart Eco mode	<cr>*lampm=seco#<cr></cr></cr>	Power on
Write	Dual Brightest	<cr>* lampm</cr>	Power on
		=dualbr# <cr></cr>	
Write	Dual Reliable	<cr>* lampm</cr>	Power on
		=dualre# <cr></cr>	
Write	Single Alternative	<cr>* lampm</cr>	Power on
		=single# <cr></cr>	
Write	Single Alternative	<cr>* lampm</cr>	Power on
	Eco	=singleeco# <cr></cr>	
Read	Lamp Mode	<cr>*lampm=?#<cr></cr></cr>	Power on

Status		
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Туре	Operation	ASCII			HEX
Read	Lamp Hour	<cr>*Itim=?#<cr></cr></cr>			0D 2A 6C 74 69 6D 3D 3F 23 0D
Echo (ASCII)		Echo (Hex)			
>ltim=?#IM=3#		3E 2A 6C 74 69 6D 3D 3F 23 0D 0D 0A 2A 4C 54 49 4D			
		3D 33 23	0D	0A	

Туре	Operation	ASCII		HEX
Read	Lamp 2 Hour	<cr>*Itim2=?#<cr></cr></cr>		0D 2A 6C 74 69 6D 32 3D 3F 23 0D
Echo (ASCII)		Echo (Hex)		
>ltim=	>ltim=?#IM=3#		3E 2A 6C 74 69 6D 32 3D 3F 23 0D 0D 0A 2A 4C 54 49	
		4D 3D 33 23	3 0D 0A	

Туре	Operation	ASCII		HEX
Write	Normal	<cr>*lampm=lnor#<cr></cr></cr>		0D 2A 6C 61 6D 70 6D 3D 6C 6E 6F 72
	mode			23 0D
Echo (Echo (ASCII)		Echo (Hex)	
>*lampm = lnor		3E 2A 6C 61 6D 70 6D 3D 6C 6E 6F 72 23 23 0D 0D 0A		
#LAM	#LAMPM=LNOR*		23 4C 41 4D 5	0 4D 3D 4C 4E 4F 52 2A 0D 0A

Туре	Operation	ASCII		HEX
Write	Economic	<cr>*lampm</cr>		0D 2A 6C 61 6D 70 6D 3D 65 63 6F 23
	mode	=eco# <cr></cr>		0D
Echo (Echo (ASCII)		Echo (Hex)	
> .*lampm		3E 2A 6C 61 6D 70 6D 3D 65 63 6F 23 0D 0D 0A 2A 4C		
=eco#*LAMPM=ECO#		41 4D 50 4D	3D 45 43 4F 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Smart Eco	<cr>*lampm</cr>		0D 2A 6C 61 6D 70 6D 20 3D 73 65 63
	mode	=seco# <c< td=""><td>R></td><td>6F 23 0D</td></c<>	R>	6F 23 0D
Echo (Echo (ASCII)		Echo (Hex)	
>*lampm		3E 2A 6C 61 6D 70 6D 20 3D 73 65 63 6F 23 0D 0D 0A		
=seco	=seco#*LAMPM=SECO#		2A 4C 41 4D	50 4D 3D 53 45 43 4F 23 0D 0A



Туре	Operation	ASCII		HEX
Write	Dual Brightness	<cr>*lam</cr>	ıpm	0D 2A 6C 61 6D 70 6D 3D 64 75 61 6C
	-	=dualbr#<	CR>	62 72 23 0D
Echo (Echo (ASCII)		Echo (Hex)	
>*lam	>*lampm		3E 2A 6C 61	6D 70 6D 3D 64 75 61 6C 62 72 23 0D 0D
=dualk	=dualbr#*LAMPM=DUALBR#		0A 2A 4C 41	4D 50 4D 3D 44 55 41 4C 42 52 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Dual Reliable	<cr>*lam</cr>	ipm	0D 2A 6C 61 6D 70 6D 3D 64 75 61 6C
		=dualre#<	CR>	72 65 23 0D
Echo (Echo (ASCII)		Echo (Hex)	
>*lampm		3E 2A 6C 61	6D 70 6D 3D 64 75 61 6C 72 65 23 0D 0D	
=dualr	=dualre#*LAMPM=DUALRE#		0A 2A 4C 41	4D 50 4D 3D 44 55 41 4C 52 45 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Single	<cr>* lampm</cr>		0D 2A 6C 61 6D 70 6D 3D 73 69 6E 67
	Alternative	=signal#<(CR>	6C 65 23 0D
Echo (Echo (ASCII)			
> *lam	pm		3E 0D 2A 6C	61 6D 70 6D 3D 73 69 6E 67 6C 65 23 0D
=signal#*LAMPM=SIGNAL#		0D 0D 0A 2A 4C 41 4D 50 4D 3D 53 49 47 4E 41 4C 23		
		0D 0A		

Туре	Operation	ASCII		HEX
Write	Single	<cr>* lampm</cr>		0D2A 6C 61 6D 70 6D 3D 73 69 6E 67
	Alternative	=singleeco# <cr></cr>		6C 65 65 63 6F 23 0D
	Eco			
Echo (A	Echo (ASCII)			
> *lamp	> *lampm		3E 0D 2A 6C 61 6D 70 6D 3D 73 69 6E 67 6C 65 65 63	
=single	=single#*LAMPM=SINGLEECO#		6F 23 0D 0D 0D 0A 2A 4C 41 4D 50 4D 3D 53 49 4E 47	
		4C 45 45 43	4F 23 0D 0A	

Туре	Operation	ASCII		HEX
Read	Lamp Mode	<cr>*lampm=?#<cr></cr></cr>		0D 2A 6C 61 6D 70 6D 3D 3F 23 0D
	Status			
Echo (ASCII)		Echo (Hex)		
>*lampm		3E 2A 6C 61	6D 70 6D 3D 3F 23 23 0D 0D 0A 2A 4C 41	

= ?#*LAMPM=SINGLE#	4D 50 4D 3D 53 49 4E 47 4C 45 23 0D 0A
- !# LAWE W-SINGLL#	4D 30 4D 3D 33 49 4L 41 4C 43 23 0D 0A

- Note 1: This is an example for inquiry command with current lamp usage hour is 3.
- Note 2: A reading time(N seconds) is necessary for this function at power saving mode(standby power < 1W).
- Note 3: Power saving mode(standby power < 1W) is in the condition of

5.8 Miscellaneous

Туре	Operation	ASCII	Note
Read	Model Name	<cr>*modelname=?#<cr></cr></cr>	standby, power on
Write	Blank On	<cr>*blank=on#<cr></cr></cr>	power on
Write	Blank Off	<cr>*blank=off#<cr></cr></cr>	power on
Read	Blank Status	<cr>*blank=?#<cr></cr></cr>	power on
Write	Freeze On	<cr>*freeze=on#<cr></cr></cr>	power on
Write	Freeze Off	<cr>*freeze=off#<cr></cr></cr>	power on
Read	Freeze Status	<cr>*freeze=?#<cr></cr></cr>	power on
Write	Menu On	<cr>*menu=on#<cr></cr></cr>	power on
Write	Menu Off	<cr>*menu=off#<cr></cr></cr>	power on
Write	Up	<cr>*up#<cr></cr></cr>	power on
Write	Down	<cr>*down#<cr></cr></cr>	power on
Write	Right	<cr>*right#<cr></cr></cr>	power on
Write	Left	<cr>*left#<cr></cr></cr>	power on
Write	Enter	<cr>*enter#<cr></cr></cr>	power on
Write	3D Sync Off	<cr>*3d=off#<cr></cr></cr>	power on
Write	3D Auto	<cr>*3d=auto#<cr></cr></cr>	power on
Write	3D Frame	<cr>*3d=fp#<cr></cr></cr>	power on
	packing		
Write	3D Side by side	<cr>*3d=sbs#<cr></cr></cr>	power on
Write	3D inverter	<cr>*3d=da#<cr></cr></cr>	power on
	disable		
Write	3D inverter	<cr>*3d=iv#<cr></cr></cr>	power on
Write	2D to 3D	<cr>*3d=2d3d#<cr></cr></cr>	power on
Write	3D nVIDIA	<cr>*3d=nvidia#<cr></cr></cr>	power on
Write	3D Sync Top	<cr>*3d=tb#<cr></cr></cr>	power on
	Bottom		

Write	3D Sync Frame Sequential	<cr>*3d=fs#<cr></cr></cr>	power on
Read	3D Sync Status	<cr>*3d=?#<cr></cr></cr>	power on
Write	Remote	<cr>*rr=fr#<cr></cr></cr>	power on
· · · · · ·	Receiver-front+r		power on
	ear		
Write	Remote	<cr>*rr=f#<cr></cr></cr>	power on
	Receiver-front		, p = 11 = 1
Write	Remote	<cr>*rr=r#<<cr></cr></cr>	power on
	Receiver-rear		
Read	Remote	<cr>*rr=?#<cr></cr></cr>	power on
	Receiver Status		
Write	Instant On-on	<cr>*ins=on#<cr></cr></cr>	power on
Write	Instant On-off	<cr>*ins=off#<cr></cr></cr>	power on
Read	Instant On	<cr>*ins=?#<cr></cr></cr>	power on
	Status		
Write	Lamp Saver	<cr>*Ipsaver=on#<cr></cr></cr>	power on
	Mode-on		
Write	Lamp Saver	<cr>*lpsaver=off#<cr></cr></cr>	power on
	Mode-off		
Read	Lamp Saver	<cr>*Ipsaver=?#<cr></cr></cr>	power on
	Mode Status		
Write	Projection Log	<cr>*prjlogincode=on#<cr< td=""><td>power on</td></cr<></cr>	power on
vviile	In Code on	>	
Write	Projection Log	<cr>*prjlogincode=off#<cr< td=""><td>power on</td></cr<></cr>	power on
VVIILE	In Code off		
Read	Projection Log	<cr>*prjlogincode=?#<cr></cr></cr>	power on
rtcau	In Code Status		
Write	Broadcasting on	<cr>*broadcasting=on#<cr< td=""><td>power on</td></cr<></cr>	power on
Write	Broadcasting off	<cr>*broadcasting=off<cr></cr></cr>	power on
Read	Broadcasting Status	<cr>*broadcasting=?<cr></cr></cr>	power on
Write	AMX Device	<cr>*amxdd=on#<cr></cr></cr>	power on
	Discovery-on		-
Write	AMX Device	<cr>*amxdd=off#<cr></cr></cr>	power on



	Discovery-off		
Read	AMX Device	<cr>*amxdd=?#<cr></cr></cr>	power on
	Discovery		
	Status		
Read	Mac Address	<cr>*macaddr=?#<cr></cr></cr>	power on

Туре	Operation	ASCII		HEX
Read	Model Name	<cr>*modelname=?#<cr></cr></cr>		0D 2A 6D 6F 64 65 6C 6E
				61 6D 65 3D 3F 23 0D
Echo (ASCII)			Echo (Hex)	
>*modelname=?#*MODELNAME=MS612ST#		3E 2A 6D 6F 64	65 6C 6E 61 6D 65 3D 3F	
(For example)		23 0D 0D 0A 2A	A 4D 4F 44 45 4C 4E 41 4D	
		45 3D 4D 53 36	31 32 53 54 23 0D 0A	

Type	Operation	ASCII		HEX
Write	Blank On	<cr>*blank=on#<cr></cr></cr>		0D 2A 62 6C 61 6E 6B 3D 6F
				6E 23 0D
Echo (ASCII)		Echo (Hex)		
>*blan	>*blank=on#*BLANK=ON#		3E 2A 62 6C 61 6E 6B 3D 6F 6E 23 0D 0D	
			0A 2A 42 4C	41 4E 4B 3D 4F 4E 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Blank Off	<cr>*blank=off#<cr></cr></cr>		0D 2A 62 6C 61 6E 6B 3D 6F
				66 66 23 0D
Echo (ASCII)		Echo (Hex)		
>*blan	>*blank=off#*BLANK=OFF#		3E 2A 62 6C	61 6E 6B 3D 6F 66 66 23 0D
			0D 0A 2A 42	4C 41 4E 4B 3D 4F 46 46 23
			0D 0A	

Туре	Operation	ASCII		HEX
Read	Blank Status	<cr>*blank=?#<cr></cr></cr>		0D 2A 62 6C 61 6E 6B 3D 3F
				23 0D
Echo (ASCII)		Echo (Hex)		
>*blank=?#*BLANK=OFF#		3E 2A 62 6C 61 6E 6B 3D 3F 23 0D 0D 0A		
		2A 42 4C 41	4E 4B 3D 4F 46 46 23 0D 0A	

Туре	Operation	ASCII	HEX
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Write	Freeze On	<cr>*freeze=on#<cr></cr></cr>		0D 2A 66 72 65 65 7A 65 3D
				6F 6E 23 0D
Echo (ASCII)		Echo (Hex)		
>*freeze=on#*FREEZE=ON#		3E 2A 66 72 6	65 65 7A 65 3D 6F 6E 23 0D 0D	
		0A 2A 46 52 4	15 45 5A 45 3D 4F 4E 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Freeze Off	<cr>*freeze=off#<cr></cr></cr>		0D 2A 66 72 65 65 7A 65 3D
				6F 66 66 23 0D
Echo (ASCII)		Echo (Hex)		
>*free	ze=off#*FREEZ	E=OFF#	3E 2A 66 72 6	65 65 7A 65 3D 6F 66 66 23 0D
		0D 0A 2A 46 52 45 45 5A 45 3D 4F 46 46 23		
		0D 0A		

Туре	Operation	ASCII		HEX
Read	Freeze	<cr>*freeze=?#<cr></cr></cr>		0D 2A 66 72 65 65 7A 65 3D
	Status			3F 23 0D
Echo (ASCII)		Echo (Hex)		
>*freeze=?#*FREEZE=OFF#		3E 2A 66 72 65 65 7A 65 3D 3F 23 0D 0D 0A		
		2A 46 52 45 4	45 5A 45 3D 4F 46 46 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Menu On	<cr>*menu=on#<cr></cr></cr>		0D 2A 6D 65 6E 75 3D 6F 6E
				23 0D
Echo (ASCII)		Echo (Hex)		
>*menu=on#*MENU=ON#		3E 2A 6D 65 6E 75 3D 6F 6E 23 0D 0D 0A		
		2A 4D 45 4E 55 3D 4F 4E 23 0D 0A		

Type	Operation	ASCII		HEX
Write	Menu Off	<cr>*menu=off#<cr></cr></cr>		0D 2A 6D 65 6E 75 3D 6F 66
				66 23 0D
Echo (ASCII)		Echo (Hex)		
>*men	>*menu=on#*MENU=OFF#		3E 2A 6D 65 6E 75 3D 6F 66 66 23 0D 0D	
		0A 2A 4D 45	4E 55 3D 4F 46 46 23 0D 0A	

Туре	Operation	ASCII	HEX
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Write	Up	<cr>*up#</cr>	<cr></cr>	0D 2A 75 70 23 0D
Echo (ASCII)		Echo (Hex)	
>*up#*UP#		3E 2A 75 70 23 0D 0D 0A 2A 55 50 23 0D		
		0A		

Туре	Operation	ASCII		HEX
Write	Down	<cr>*down#<cr></cr></cr>		0D 2A 64 6F 77 6E 23 0D
Echo (ASCII)		Echo (Hex)		
>*down#*DOWN#		3E 2A 64 6F 77 6E 23 0D 0D 0A 2A 44 4F 57		
		4E 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Right	<cr>*right#<cr></cr></cr>		0D 2A 72 69 67 68 74 23 0D
Echo (ASCII)		Echo (Hex)		
>*right#*RIGHT#		3E 2A 72 69 67 68 74 23 0D 0D 0A 2A 52 49		
		47 48 54 23 0	DD 0A	

Type	Operation	ASCII		HEX
Write	Left	<cr>*left#</cr>	<cr></cr>	0D 2A 6C 65 66 74 23 0D
Echo (ASCII)		Echo (Hex)	
>*left#	>*left#*LEFT#		3E 2A 6C 65 66 74 23 0D 0D 0A 2A 4C 45	
			46 54 23 0D 0	DA .

Туре	Operation	ASCII		HEX
Write	Enter	<cr>*enter#<cr></cr></cr>		0D 2A 65 6E 74 65 72 23 0D
Echo (ASCII)		Echo (Hex)		
>*enter#*ENTER#		3E 2A 65 6E 74 65 72 23 0D 0D 0A 2A 45 4E		
		54 45 52 23 0	DD 0A	

Туре	Operation	ASCII		HEX
Write	3D Sync Off	<cr>*3d=off#<cr></cr></cr>		0D 2A 33 64 3D 6F 66 66 23 0D
Echo (ASCII)			Echo (Hex)	
>*3d=off#*3D=OFF#		3E 2A 33 64 3D 6F 66 66 23 0D 0D 0A 2A 33		
			44 3D 4F 46 46 23 0D 0A	



Туре	Operation	ASCII		HEX
Write	3D Sync auto	<cr>*3d=auto#<cr></cr></cr>		0D 2A 33 64 3D 61 75 74 6F
				23 0D
Echo (ASCII)		Echo (Hex)		
>*3d=	>*3d=auto#*3D=auto#		3E 2A 33 64 3D 61 75 74 6F 23 0D 0D 0A 2A	
			33 44 3D 61 75 74 6F 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	3D Frame	<cr>*3d=fp#<cr></cr></cr>		0D 2A 33 64 3D 66 70 23 0D
	packing			
Echo (ASCII)			Echo (Hex)	
>*3d=fp#*3D=fp#		3E 2A 33 64 3D 66 70 23 0D 0D 0A 2A 33 44		
			3D 66 70 23	0D 0A

Туре	Operation	ASCII		HEX
Write	3D Side by	<cr>*3d=sbs#<cr></cr></cr>		0D 2A 33 64 3D 73 62 73 23
	side			0D
Echo (ASCII)		Echo (Hex)		
>*3d=sbs#*3D=sbs#		3E 2A 33 64 3D 73 62 73 23 0D 0D 0A 2A 33		
		44 3D 73 62 73 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	3D inverter	<cr>*3d=da# <cr></cr></cr>		0D 2A 33 64 3D 64 61 23
	disable			0D
Echo (ASCII)		Echo (Hex)		
>*3d=da#*3D=da#		3E 2A 33 64 3D 64 61 23 0D 0D 0A 2A 33 44		
		3D 64 61 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	3D inverter	<cr>*3d=iv#<cr></cr></cr>		0D 2A 33 64 3D 69 76 23 0D
Echo (ASCII)		Echo (Hex)		
>*3d=	>*3d=iv#*3D=iv#		3E 2A 33 64 3D 69 76 23 0D 0D 0A 2A 33 44	
		3D 69 76 23 (DD 0A	

Туре	Operation	ASCII	HEX
Write	2D to 3D	<cr>*3d=2d3d#<cr></cr></cr>	0D 2A 33 64 3D 32 64 33 64



				23 0D
Echo (Echo (ASCII)		Echo (Hex)	
>*3d=2d3d#*3D=2d3d#		3E 2A 33 64 3	3D 32 64 33 64 23 0D 0D 0A 2A	
		33 44 3D 32 6	64 33 64 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	nVidia 3D	<cr>*3d=nvidia#<cr></cr></cr>		0D 2A 33 64 3D 6E 76 69 64
				69 61 23 0D
Echo (ASCII)		Echo (Hex)		
>*3d=	>*3d=nvidia#*3D=NVIDIA#		3E 2A 33 64 3D 6E 76 69 64 69 61 23 2A 33	
			44 3D 4E 56	49 44 49 41 23 0D 0A

Туре	Operation	ASCII		HEX
Write	3D Sync Top	<cr>*3d=tb#<cr></cr></cr>		0D 2A 33 64 3D 74 62 23 0D
	Bottom			
Echo (ASCII)		Echo (Hex)		
>*3d=tb#*3D=TB#		3E 2A 33 64 3D 74 62 23 0D 0D 0A 2A 33 44		
		3D 54 42 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	3D Sync	<cr>*3d=fs#<cr></cr></cr>		0D 2A 33 64 3D 66 73 23 0D
	Frame			
	Sequential			
Echo (ASCII)		Echo (Hex)		
>*3d=	>*3d=fs#*3D=FS#		3E 2A 33 64 3D 66 73 23 0D 0D 0A 2A 33 44	
		3D 46 53 23 (0D 0A	

Туре	Operation	ASCII		HEX
Read	3D Sttus	<cr>*3d=?#<cr></cr></cr>		0D 2A 33 64 3D 3F 23 0D
Echo (ASCII)		Echo (Hex)		
>*3d=?#*3D=?#		3E 2A 33 64 3D 3F 23 0D 0D 0A 2A 33 44		
		3D 3F 23 0D	0A	

Туре	Operation	ASCII	HEX
Write	Remote	<cr>*rr=fr#<cr></cr></cr>	0D 2A 72 72 3D 66 72 23 0D



	Receiver-front+rear			
Echo (ASCII)		Echo (Hex)		
>*rr=frr#*RR=FR#		3E 2A 72 72 3	BD 66 72 23 0D 0D 0A 2A 52 52	
		3D 46 52 23 (DD 0A	

Туре	Operation	ASCII		HEX
Write	Remote	<cr>*rr=f#<cr></cr></cr>		0D 2A 72 72 3D 66 23 0D
	Receiver-front			
Echo (Echo (ASCII)		Echo (Hex)	
>*rr=f#	>*rr=f#*RR=F#		3E 2A 72 72 3D 66 23 0D 0D 0A 2A 52 52	
			3D 46 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Remote	<cr>*rr=r#<cr></cr></cr>		0D 2A 72 72 3D 72 23 0D
	Receiver-rear			
Echo (ASCII)		Echo (Hex)		
>*rr=r#*RR=R#		3E 2A 72 72 3D 72 23 0D 0D 0A 2A 52 52		
			3D 52 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Remote	<cr>*rr=?#<cr></cr></cr>		0D 2A 72 72 3D 3F 23 0D
	Receiver			
	Status			
Echo (Echo (ASCII)		Echo (Hex)	
>*rr=?	#*RR=?#		3E 2A 72 72 3D 3F 23 0D 0D 0A 2A 52 52	
		3D 3F 23 0D 0A		

Туре	Operation	ASCII		HEX	
Write	Instant	<cr>*rins=on#<cr></cr></cr>		0D 2A 72 69 6E 73 3D 6F 6E	
	On-on			23 0D	
Echo (Echo (ASCII)		Echo (Hex)		
>*rins=on#*RINS=ON#		3E 2A 72 69 6E 73 3D 6F 6E 23 0D 0D 0A			
		2A 52 49 4E 53 3D 4F 4E 23 0D 0A			

Туре	Operation	ASCII	HEX
Write	Instant	<cr>*rins=off#<cr></cr></cr>	0D 2A 72 69 6E 73 3D 6F 66



	On-off			66 23 0D
Echo	(ASCII)	Echo (Hex)		
>*rins=off#*RINS=OFF#		3E 2A 72 69 6	6E 73 3D 6F 66 66 23 0D 0D	
		0A 2A 52 49 4E 53 3D 4F 46 46 23 0D 0A		

Туре	Operation	ASCII		HEX	
Read	Instant On	<cr>*rins=?#<cr></cr></cr>		0D 2A 72 69 6E 73 3D 3F 23	
	Status			0D	
Echo (Echo (ASCII)		Echo (Hex)		
>*rins=?#*RINS=?#		3E 2A 72 69 6E 73 3D 3F 23 0D 0D 0A 2A			
			52 49 4E 53 3D 3F 23 0D 0A		

Туре	Operation	ASCII		HEX	
Write	Lamp Saver	<cr>*lpsaver=on#<cr></cr></cr>		0D 2A 6C 70 73 61 76 65 72	
	Mode-on			3D 6F 6E 23 0D	
Echo (ASCII)		Echo (Hex)			
>*lpsa	ver=on#*LPSA\	/ER=ON#	3E 2A 6C 70 73 61 76 65 72 3D 6F 6E 23 0D		
		0D 0A 2A 4C 50 53 41 56 45 52 3D 4F 4E 23			
		0D 0A			

Туре	Operation	ASCII		HEX	
Write	Lamp Saver	<cr>*Ipsaver=off#<cr></cr></cr>		0D 2A 6C 70 73 61 76 65 72	
	Mode-off			3D 6F 66 66 23 0D	
Echo (Echo (ASCII)		Echo (Hex)		
>*lpsa	>*lpsaver=off#*LPSAVER=OFF#		3E 2A 6C 70 73 61 76 65 72 3D 6F 66 66 23		
		0D 0D 0A 2A 4C 50 53 41 56 45 52 3D 4F 46			
		46 23 0D 0A			

Туре	Operation	ASCII		HEX	
Read	Lamp Saver	<cr>*Ipsaver=?#<cr></cr></cr>		0D 2A 6C 70 73 61 76 65 72	
	Mode Status			3D 3F 23 0D	
Echo (ASCII)		Echo (Hex)			
>*lpsa	ver=?#* LPSAV	ER=?#	3E 2A 6C 70 73 61 76 65 72 3D 3F 23 0D		
		0D 0A 2A 20 4C 50 53 41 56 45 52 3D 3F 23			
		0D 0A			

Type Operation ASCII HEX	
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Write	Projection Log In Code on	<cr>*prjlogincode</cr>	e=on# <cr></cr>	0D 2A 70 72 6A 6C 6F 67 69 6E 63 6F 64 65 3D 6F 6E 23 0D
Echo (A	SCII)		Echo (Hex)	
>*prjlogi	>*prjlogincode=on#*PRJLOGINCODE=ON#		3E 2A 70 72 6A 6	6C 6F 67 69 6E 63 6F 64 65
		3D 6F 6E 23 0D 0D 0A 2A 50 52 4A 4C 4F		
			47 49 4E 43 4F 4	14 45 3D 4F 4E 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Projection Log	<cr>*prjlogincode</cr>	=off# <cr></cr>	0D 2A 6C 70 73 61 76 65
vviile	In Code off			72 3D 3F 23 0D
Echo (AS	SCII)		Echo (Hex)	
>*prjlogir	ncode=off#*PRJL(OGINCODE=OFF#	3E 2A 70 72 6A 6	6C 6F 67 69 6E 63 6F 64
			65 3D 6F 66 66 2	23 0D 0D 0A 2A 50 52 4A
			4C 4F 47 49 4E	43 4F 44 45 3D 4F 46 46
			23 0D 0A	

Туре	Operation	ASCII		HEX
	Projection	<cr>*prjlogincode=?#<cr></cr></cr>		0D 2A 70 72 6A 6C 6F 67 69
Read	Log In Code			6E 63 6F 64 65 3D 3F 23 0D
	Status			
Echo (ASCII)		Echo (Hex)		
>*prjlogi	>*prjlogincode=?#*PRJLOGINCODE=?#		3E 2A 70 72 6A 6C 6F 67 69 6E 63 6F 64 65	
		3D 3F 23 0D 0D 0A 2A 50 52 4A 4C 4F 47 49		
			4E 43 4F 44 45	3D 3F 23 0D 0A

Туре	Operation	ASCII		HEX	
	Broadcasting <cr>*broadc</cr>		g=on# <cr></cr>	0D 2A 62 72 6F 61 64 63	
Write	on			61 73 74 69 6E 67 3D 6F	
	OII			6E 23 0D	
Echo (A	Echo (ASCII)			Echo (Hex)	
>*broad	casting=on#*BRO	ADCASTING=ON#	3E 2A 62 72 6F 61 64 63 61 73 74 69 6E		
		67 3D 6F 6E 23 0D 0D 0A 2A 42 52 4F 41			
		44 43 41 53 54	49 4E 47 3D 4F 4E 23 0D		
			0A		

_			
Туре	Operation	ASCII	HEX

Write	Broadcasting on	<cr>*broadcasting=off#<cr></cr></cr>		0D 2A 6C 70 73 61 76 65 72 3D 3F 23 0D
Echo (A	SCII)		Echo (Hex)	
>*broad	>*broadcasting=off#*BROADCASTING=OFF#		3E 2A 62 72 6F	61 64 63 61 73 74 69 6E
		67 3D 6F 66 66	23 0D 0D 0A 2A 42 52 4F	
		41 44 43 41 53	54 49 4E 47 3D 4F 46 46	
			23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Broadcasting Status	<cr>*broadcasting=?#<cr></cr></cr>		0D 2A 62 72 6F 61 64 63 61 73 74 69 6E 67 3D 3F 23 0D
Echo (ASCII)		Echo (Hex)		
>*broad	>*broadcasting=?#*BROADCASTING=?#		3E 2A 62 72 6F	61 64 63 61 73 74 69 6E
		67 3D 3F 23 0D 0D 0A 2A 42 52 4F 41 44		
		43 41 53 54 49	4E 47 3D 3F 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	AMX Device	<cr>*amxdd=on#<cr></cr></cr>		0D 2A 61 6D 78 64 64 3D 6F
	Discovery-on			6E 23 0D
Echo ((ASCII)	Echo (Hex)		
>*amx	dd=on#*AMXD	DD=ON# 3E 2A 61 6D		78 64 64 3D 6F 6E 23 0D 0D
		0A 2A 41 4D 5	58 44 44 3D 4F 4E 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	AMX Device	<cr>*amxdd=off#<cr></cr></cr>		0D2A 61 6D 78 64 64 3D 6F
	Discovery-off			66 66 23 0D
Echo ((ASCII)	SCII) Echo (Hex)		
>*amxdd=off#*AMXDD=OFF#		3E 2A 61 6D 78 64 64 3D 6F 66 66 23 0D 0D		
		0A 2A 41 4D 5	58 44 44 3D 4F 46 46 23 0D 0A	

Туре	Operation	ASCII		HEX
Read	AMX Device	<cr>*amx</cr>	(dd=?# <cr></cr>	0D 2A 61 6D 78 64 64 3D 3F
	Discovery			23 0D
	Status			
Echo (ASCII)		Echo (Hex)	



>*amxdd=?#*AMXDD=?#	3E 2A 61 6D 78 64 64 3D 3F 23 0D 0D 0A
	2A 41 4D 58 44 44 3D 3F 23 0D 0A

Туре	Operation	ASCII		HEX
Read	Mac Address	<cr>*macaddr=?#<cr></cr></cr>		0D 2A 6D 61 63 61 64 64 72
				3D 3F 23 0D
Echo (ASCII)	Echo (Hex)		
>*mac	>*macaddr=?#*MACADDR=?#		3E 2A 61 6D 78 64 64 3D 6F 6E 23 0D 0D 0A	
		2A 4D 41 43 4	1 44 44 52 3D 3F 23 0D 0A	

5.9 Operation Setting

Туре	Operation	ASCII	Note
	Projector		power on
Write	Position-Front	<cr>*pp=FT#<cr></cr></cr>	
	Table		
Write	Projector	<cr>*pp=RE#<cr></cr></cr>	power on
vviile	Position-Rear Table	PP-RE#CR2	
	Projector		power on
Write	Position-Rear	<cr>*pp=RC#<cr></cr></cr>	
	Ceiling		
	Projector		power on
Write	Position-Front	<cr>*pp=FC#<cr></cr></cr>	
	Ceiling		
Read	Projector Position	<cr>*pp=?#<cr></cr></cr>	nower on
Reau	Status	CK2 ββ- !#CK2	power on
Write	Direct Power On-on	<cr>*directpower=on#<cr></cr></cr>	power on
Write	Direct Power On-off	<cr>*directpower=off#<cr></cr></cr>	power on
Read	Direct Power	CD>*directnesser=2#CD>	nower on
Reau	On-Status	<cr>*directpower=?#<cr></cr></cr>	power on
Write	Signal Power	<cr>*autopower=on#<cr></cr></cr>	power on
vviile	On-on	autopower-on#CR2	
\\/ritc	Signal Power	CD>*autonowor=off# <cd></cd>	power on
Write	On-off	<cr>*autopower=off#<cr></cr></cr>	
Write	Signal Power	<cr>*autopower=?#<cr></cr></cr>	power on
vviile	On-Status	autohomei – :#ck>	
Write	Standby	<cr>*standbynet=on#<cr></cr></cr>	power on
vviile	Settings-Network	Standbynet-on#CCK	

	on		
	Standby		power on
Write	Settings-Network	<cr>*standbynet=off#<cr></cr></cr>	
	off		
	Standby		power on
Read	Settings-Network	<cr>*standbynet=?#<cr></cr></cr>	
	Status		
	Standby		power on
Write	Settings-Microphone	<cr>*standbymic=on#<cr></cr></cr>	
	on		
	Standby		power on
Write	Settings-Microphone	<cr>*standbymic=off#<cr></cr></cr>	
	off		
	Standby	<u></u>	power on
Write	Settings-Microphone	<cr>*standbymic=?#<cr></cr></cr>	
	Status		
	Standby		power on
Write	Settings-Monitor Out	<cr>*standbymnt=on#<cr></cr></cr>	
	on		
	Standby		power on
Write	Settings-Monitor Out	<cr>*standbymnt=off#<cr></cr></cr>	
	off		
	Standby		power on
Write	Settings-Monitor Out	<cr>*standbymnt=?#<cr></cr></cr>	
	Status		

Туре	Operation	ASCII		HEX
Read	Projector	<cr>*pp=FT#<cr></cr></cr>		0D 2A 70 70 3D 46 54 23 0D
	Position-Front			
	Table			
Echo (ASCII)		Echo (Hex)	
>*pp=FT#*PP=FT#		3E 2A 70 70 3D 46 54 23 0D 0D 0A 2A 50 50		
		3D 46 54 23 (0D 0A	

Туре	Operation	ASCII	HEX
Read	Projector	<cr>*pp=RE##<cr></cr></cr>	0D 2A 70 70 3D 52 45 23 0D
	Position-Rear		



	Table		
Echo (ASCII)	Echo (Hex)	
>*pp=	RE#*PP=RE#	3E 2A 70 70 3	BD 52 45 23 0D 0D 0A 2A 50 50
		3D 52 45 23 (DD 0A

Туре	Operation	ASCII		HEX
Write	Projector	<cr>*pp=RC##<cr></cr></cr>		0D 2A 70 70 3D 52 43 23 0D
	Position-Rear			
	Ceiling			
Echo (ASCII)		Echo (Hex)		
>*pp=RC#*PP=RC#		3E 2A 70 70 3D 52 43 23 0D 0D 0A 2A 50 50		
		3D 52 43 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Projector	<cr>*pp=FC#<cr></cr></cr>		0D 2A 70 70 3D 46 43 23 0D
	Position-Front			
	Ceiling			
Echo	Echo (ASCII)		Echo (Hex)	
>*pp=FC#*PP=FC#		3E 2A 70 70 3D 46 43 23 0D 0D 0A 2A 50 50		
		3D 46 43 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Projector	<cr>*pp=?#<cr></cr></cr>		0D 2A 70 70 3D 3F 23 0D
	Position			
	Status			
Echo (ASCII)		Echo (Hex)		
>*pp=?#*PP=?#		3E 2A 70 70 3D 3F 23 0D 0D 0A 2A 50 50		
		3D 3F 23 0D 0A		

Туре	Operation	ASCII		HEX
Write	Direct Power	<cr>*directpower=on#<cr></cr></cr>		0D 2A 64 69 72 65 63 74 70
	On-on			6F 77 65 72 3D 6F 6E 23 0D
Echo (ASCII)			Echo (Hex)	
>*directpower=on#*DIRECTPOWER=ON#			3E 2A 64 69 72	65 63 74 70 6F 77 65 72 3D

6F 6E 23 0D 0D 0A 2A 44 49 52 45 43 54 50

4F 57 45 52 3D 4F 4E 23 0D 0A

Туре	Operation	ASCII		HEX	
Write	Direct Power	<cr>*directpower=off#<cr></cr></cr>		0D 2A 64 69 72 65 63 74	
	On-off			70 6F 77 65 72 3D 6F 66	
				66 23 0D	
Echo (AS	Echo (ASCII)			Echo (Hex)	
>*directp	ower=off#*DIRE	CTPOWER=OFF#	3E 2A 64 69 72 65 63 74 70 6F 77 65 72 3D		
			6F 66 66 23 0D 0D 0A 2A 44 49 52 45 43 54		
			50 4F 57 45 52 3	3D 4F 46 46 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Direct Power	<cr>*directpower=?#<cr></cr></cr>		0D 2A 64 69 72 65 63 74 70
	On-Status			6F 77 65 72 3D 3F 23 0D
Echo (A	Echo (ASCII)		Echo (Hex)	
>*direct	>*directpower=?#*DIRECTPOWER=?#		3E 2A 64 69 72 65 63 74 70 6F 77 65 72 3D 3F	
		23 0D 0D 0A 2A	44 49 52 45 43 54 50 4F 57 45	
			52 3D 3F 23 0D	0A

Туре	Operation	ASCII		HEX
Write	Signal Power	<cr>*autopower=on#<cr></cr></cr>		0D 2A 61 75 74 6F 70 6F 77
	On-on			65 72 3D 6F 6E 23 0D
Echo (A	Echo (ASCII)		Echo (Hex)	
>*autop	ower=on#*AUT	OPOWER=ON#	3E 2A 61 75 74 6F 70 6F 77 65 72 3D 6F 6E	
		23 0D 0D 0A 2A 41 55 54 4F 50 4F 57 45 52		
			3D 4F 4E 23 0D) 0A

Туре	Operation	ASCII		HEX
Write	Signal Power	<cr>*autopower=off#<cr></cr></cr>		0D 2A 61 75 74 6F 70 6F 77
	On-off			65 72 3D 6F 66 66 23 0D
Echo (A	Echo (ASCII)		Echo (Hex)	
>*autop	>*autopower=off#*AUTOPOWER=OFF#		3E 2A 61 75 74 6F 70 6F 77 65 72 3D 6F 66 66	
		23 0D 0D 0A 2A 41 55 54 4F 50 4F 57 45 52		
		3D 4F 46 46 23 0D 0A		

Туре	Operation	ASCII	HEX
Write	Signal Power	<cr>*autopower=?#<cr></cr></cr>	0D 2A 61 75 74 6F 70 6F 77



On-Status	65 72 3D 3F 23 0D	
Echo (ASCII)	Echo (Hex)	
>*autopower=?#*AUTOPOWER=?#	3E 2A 61 75 74 6F 70 6F 77 65 72 3D 3F 23	
	0D 0D 0A 2A 41 55 54 4F 50 4F 57 45 52 3D	
	3F 23 0D 0A	

Туре	Operation	ASCII		HEX
Write	Standby	<cr>*standbynet=on#<cr></cr></cr>		0D 2A 73 74 61 6E 64 62 79
	Settings-Network			6E 65 74 3D 6F 6E 23 0D
	on			
Echo (Echo (ASCII)		Echo (Hex)	
>*stan	>*standbynet=on#*STANDBYNET=ON#		3E 2A 73 74 61 6E 64 62 79 6E 65 74 3D 6F	
			6E 23 0D 0D 0A 2A 53 54 41 4E 44 42 59 4E	
			45 54 3D 4F 4E	23 0D 0A

Type	Operation	ASCII		HEX
Write	Standby	<cr>*standbynet=off#<cr></cr></cr>		0D 2A 73 74 61 6E 64 62 79
	Settings-Network			6E 65 74 3D 6F 66 66 23 0D
	off			
Echo (ASCII)		Echo (Hex)		
>*stan	>*standbynet=off#*STANDBYNET=OFF#		3E 2A 73 74 61	6E 64 62 79 6E 65 74 3D 6F 66
			66 23 0D 0D 0A	2A 53 54 41 4E 44 42 59 4E 45
			54 3D 4F 46 46	23 0D 0A

Туре	Operation	ASCII		HEX
Write	Standby	<cr>*standbynet=?#<cr></cr></cr>		0D 2A 73 74 61 6E 64 62 79
	Settings-Network			6E 65 74 3D 3F 23 0D
	Status			
Echo (ASCII)		Echo (Hex)		
>*stan	>*standbynet=?#*STANDBYNET=?#		3E 2A 73 74 61	6E 64 62 79 6E 65 74 3D 3F
		23 0D 0D 0A 2A 53 54 41 4E 44 42 59 4E 45		
			54 3D 3F 23 0D	0 0A

Туре	Operation	ASCII	HEX
Write	Standby	<cr>*standbymic=on#<cr></cr></cr>	0D 2A 73 74 61 6E 64 62 79
	Settings-Microphone		6D 69 63 3D 6F 6E 23 0D

	on			
Echo ((ASCII)		Echo (Hex)	
>*standbymic=on#*STANDBYMIC=ON#		3E 2A 73 74 61	6E 64 62 79 6D 69 63 3D 6F	
			6E 23 0D 0D 0A	2A 53 54 41 4E 44 42 59 4D
			49 43 3D 4F 4E	23 0D 0A

Туре	Operation	ASCII		HEX
Write	Standby	<cr>*standbymic=off#<cr></cr></cr>		0D 2A 73 74 61 6E 64 62 79
	Settings-Microphone			6D 69 63 3D 6F 66 66 23 0D
	off			
Echo (ASCII)		Echo (Hex)		
>*stan	>*standbymic=off#*STANDBYMIC=OFF#		3E 2A 73 74 61	6E 64 62 79 6D 69 63 3D 6F
		66 66 23 0D 0D	0A 2A 53 54 41 4E 44 42 59	
			4D 49 43 3D 4F	46 46 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Standby	<cr>*standbymic=?#<cr></cr></cr>		0D 2A 73 74 61 6E 64 62 79
	Settings-Microphone			6D 69 63 3D 3F 23 0D
	Status			
Echo (ASCII)			Echo (Hex)	
>*stan	>*standbymic=?#*STANDBYMIC=?#		3E 2A 73 74 61	6E 64 62 79 6D 69 63 3D 3F
		23 0D 0D 0A 2A	53 54 41 4E 44 42 59 4D 49	
			43 3D 3F 23 0D	0A

Type	Operation	ASCII		HEX
Write	Standby	<cr>*standbymnt=on#<cr></cr></cr>		0D 2A 73 74 61 6E 64 62 79
	Settings-Monitor			6D 6E 74 3D 6F 6E 23 0D
	Out on			
Echo (ASCII)		Echo (Hex)		
>*stan	>*standbymnt=on#*STANDBYMNT=ON#		3E 2A 73 74 61	6E 64 62 79 6D 6E 74 3D 6F
		6E 23 0D 0D 0A 2A 53 54 41 4E 44 42 59 4D		
			4E 54 3D 4F 4E	23 0D 0A

Туре	Operation	ASCII	HEX
Write	Standby	<cr>*standbymnt=off#<cr></cr></cr>	0D 2A 73 74 61 6E 64 62 79
	Settings-Monitor		6D 6E 74 3D 6F 66 66 23 0D



Out on	
Echo (ASCII)	Echo (Hex)
>*standbymnt=off#*STANDBYMN	T 3E 2A 73 74 61 6E 64 62 79 6D 6E 74 3D 6F 66
=OFF#	66 23 0D 0D 0A 2A 53 54 41 4E 44 42 59 4D
	4E 54 20 3D 4F 46 46 23 0D 0A

Туре	Operation	ASCII		HEX
Write	Standby	<cr>*standl</cr>	oymnt=?# <cr></cr>	0D 2A 73 74 61 6E 64 62 79
	Settings-Monitor			6D 6E 74 3D 3F 23 0D
	Out Status			
Echo (ASCII)			Echo (Hex)	
>*stan	>*standbymnt=?#*STANDBYMNT=?#		3E 2A 73 74 61	6E 64 62 79 6D 6E 74 3D 3F
			23 0D 0D 0A 2A	4 53 54 41 4E 44 42 59 4D 4E
			54 3D 3F 23 0D	0A

5.10 Error Code

Туре	Operation	ASCII	Note
Read	Error Code	<cr>*error=report#<cr></cr></cr>	

The error code can be shown via RS-232 port. Record the latest 3 times error information. It should report the following item.

Note 1: A reading time(N seconds) is necessary for this function at power saving mode(standby power < 1W).

Note 2: Power saving mode(standby power < 1W) is in the condition of

	Item	Description
1	Error Item	
2	Lamp Usage Hour	
3	Inlet Temp	
4	Outlet Temp	
5	Fan 1 speed	

6	Fan 2 speed	
7	Last Source	

Note: The error item could be discussed after project kicked off.

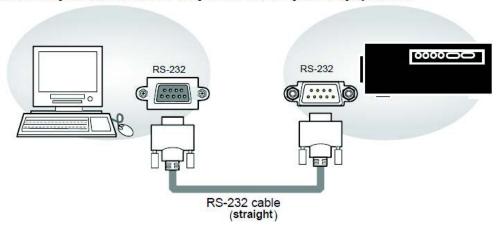
APPENDIX2. RS-232 Communication

RS-232 Communication

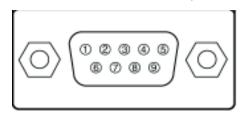
When the projector connects to the computer by RS-232 communication, the projector can be controlled with RS-232 commands from the computer. For details of RS-232 commands, refer to RS-232 Communication command table.

Connection

- 1. Turn off the projector and the computer.
- Connect the projector's RS232 port and the computer's RS-232 port with a RS-232 cable (straight). Use the cable that fulfills the specification shown in the figure
- 3. Turn the computer on, and after the computer has started up turn the projector on.



CONTROL PORT CONNECTOR (D-sub 9 pin)



	Serial
1	N.C
2	RXD
3	TXD
4	N.C
5	Ground
6	N.C
7	Short with pin8
8	Short with pin7
9	N.C

APPENDIX3. Ben-Q_ RS-232 Commend List

Function	Туре	Description(紅字表示 Delta 的定	ASCII	Setting Condition	Note	Support
	Write	Power On	<cr>*pow=on#<cr></cr></cr>	StandBy		V
Power	Write	Power off	<cr>*pow=off#<cr></cr></cr>	Lamp On		V
	Read	Power Status	<cr>*pow=?#<cr></cr></cr>	Any State		V
	Write	COMPUTER/YPbPr(VGA)	<cr>*sour=RGB#<cr></cr></cr>			V
	Write	COMPUTER 2/YPbPr2(BNC)	<cr>*sour=RGB2#<cr></cr></cr>			V
	Write	Component	<cr>*sour=YPbr#<cr></cr></cr>			V
	Write	Component2	<cr>*sour=ypbr2#<cr></cr></cr>			х
	Write	DVI-A	<cr>*sour=dviA#<cr></cr></cr>			Х
	Write	DVI-D (DVI)	<cr>*sour=dvid#<cr></cr></cr>			V
	Write	HDMI	<cr>*sour=hdmi#<cr></cr></cr>			V
	Write	HDMI 2	<cr>*sour=hdmi2#<cr></cr></cr>			х
Source	Write	Composite(Video)	<cr>*sour=vid#<cr></cr></cr>	Lamp On & Not in		V
Selection	Write	S-Video	<cr>*sour=svid#<cr></cr></cr>	blank screen		V
	Write	Network	<cr>*sour=network#<cr></cr></cr>			х
	Write	USB Display	<cr>*sour=usbdisplay#<cr></cr></cr>			х
	Write	USB Reader	<cr>*sour=usbreader#<cr></cr></cr>			х
	Write	Wireless	<cr>*sour=wireless#<cr></cr></cr>			х
	Write	DisplayPort	<cr>*sour=dp#<cr></cr></cr>			х
	Write	HD Connect	<cr>*sour=hdconnect#<cr></cr></cr>			х
	Write	HDBaseT	<cr>*sour=hdbaset#<cr></cr></cr>			V
	Read	Current source	<cr>*sour=?#<cr></cr></cr>			V
	Write	Mute On	<cr>*mute=on#<cr></cr></cr>			Х
	Write	Mute Off	<cr>*mute=off#<cr></cr></cr>			х
	Read	Mute Status	<cr>*mute=?#<cr></cr></cr>			х
	Write	Volume +	<cr>*vol=+#<cr></cr></cr>			х
	Write	Volume -	<cr>*vol=-#<cr></cr></cr>			х
	Read	Volume Status	<cr>*vol=?#<cr></cr></cr>			х
	Write	Mic. Volume +	<cr>*micvol=+#<cr></cr></cr>			х
	Write	Mic. Volume -	<cr>*micvol=-#<cr></cr></cr>			х
Audio Control	Read	Mic. Volume Status	<cr>*micvol=?#<cr></cr></cr>			х
Audio source	Write	Audio pass Through off	<cr>*audiosour=off#<cr></cr></cr>			Х

select	Write	Audio-Computer1	<cr>*audiosour=RGB#<cr></cr></cr>		X
	Write	Audio-Computer2	<cr>*audiosour=RGB2#<cr></cr></cr>		Х
	Write	Audio-Video/S-Video	<cr>*audiosour=vid#<cr></cr></cr>		X
	Write	Audio-Component	<cr>*audiosour=ypbr#<cr></cr></cr>		Х
	Write	Audio-HDMI	<cr>*audiosour=hdmi#<cr></cr></cr>		X
	Write	Audio-HDMI2	<cr>*audiosour=hdmi2#<cr></cr></cr>		X
	Read	Audio pass Status	<cr>*audiosour=?#<cr></cr></cr>		X
	Write	Dynamic	<cr>*appmod=dynamic#<cr></cr></cr>		X
	Write	Presentation	<cr>*appmod=preset#<cr></cr></cr>		٧
	Write	sRGB	<cr>*appmod=srgb#<cr></cr></cr>		Х
	Write	Bright(High Bright)	<cr>*appmod=bright#<cr></cr></cr>		V
	Write	Living Room	<cr>*appmod=livingroom#<cr></cr></cr>		Х
	Write	Game	<cr>*appmod=game#<cr></cr></cr>		х
	Write	Cinema(Video)	<cr>*appmod=cine#<cr></cr></cr>		٧
Picture Mode	Write	Standard	<cr>*appmod=std#<cr></cr></cr>	Source Locked	Х
	Write	User1	<cr>*appmod=user1#<cr></cr></cr>		х
	Write	User2	<cr>*appmod=user2#<cr></cr></cr>		х
	Write	User3	<cr>*appmod=user3#<cr></cr></cr>		Х
	Write	ISF Day	<cr>*appmod=isfday#<cr></cr></cr>		х
	Write	ISF Night	<cr>*appmod=isfnight#<cr></cr></cr>		х
	Write	3D	<cr>*appmod=threed#<cr></cr></cr>		Х
	Read	Picture Mode	<cr>*appmod=?#<cr></cr></cr>		٧
	Write	Contrast +	<cr>*con=+#<cr></cr></cr>		٧
	Write	Contrast -	<cr>*con=-#<cr></cr></cr>	Source Locked	٧
	Read	Contrast value	<cr>*con=?#<cr></cr></cr>		٧
	Write	Brightness +	<cr>*bri=+#<cr></cr></cr>		٧
	Write	Brightness -	<cr>*bri=-#<cr></cr></cr>	Source Locked	٧
	Read	Brightness value	<cr>*bri=?#<cr></cr></cr>		٧
Picture	Write	Color + (Saturation)	<cr>*color=+#<cr></cr></cr>	0	٧
Setting	Write	Color - (Saturation)	<cr>*color=-#<cr></cr></cr>	Source Locked &	٧
	Read	Color value (Saturation)	<cr>*color=?#<cr></cr></cr>	YUV	٧
	Write	Sharpness +	<cr>*sharp=+#<cr></cr></cr>	0	٧
	Write	Sharpness -	<cr>*sharp=-#<cr></cr></cr>	Source Locked &	٧
	Read	Sharpness value	<cr>*sharp=?#<cr></cr></cr>	YUV	٧
	Write	Color Temperature-Warmer	<cr>*ct=warmer#<cr></cr></cr>	Source Locked	Х

	Write	Color Temperature-Warm (6500K)	<cr>*ct=warm#<cr></cr></cr>			V
	Write	Color Temperature-Normal	<cr>*ct=normal#<cr></cr></cr>			v
		(7800K)				•
	Write	Color Temperature-Cool (9300K)	<cr>*ct=cool#<cr></cr></cr>			V
	Write	Color Temperature-Cooler	<cr>*ct=cooler#<cr></cr></cr>			X
	Write	Color Temperature-lamp native	<cr>*ct=native#<cr></cr></cr>			V
	Read	Color Temperature Status	<cr>*ct=?#<cr></cr></cr>			V
	Write	Aspect 4:3	<cr>*asp=4:3#<cr></cr></cr>			V
	Write	Aspect 16:9	<cr>*asp=16:9#<cr></cr></cr>			V
	Write	Aspect 16:10	<cr>*asp=16:10#<cr></cr></cr>			V
	Write	Aspect Auto	<cr>*asp=AUTO#<cr></cr></cr>			V
	Write	Aspect Real (Aspect Native)	<cr>*asp=REAL#<cr></cr></cr>			٧
	Write	Aspect Letterbox	<cr>*asp=LBOX#<cr></cr></cr>	Source Locked		Х
	Write	Aspect Wide	<cr>*asp=WIDE#<cr></cr></cr>	Source Locked		х
	Write	Aspect Anamorphic	<cr>*asp=ANAM#<cr></cr></cr>			х
	Write	Aspect 5:4	<cr>*asp=5:4#<cr></cr></cr>		New	V
	Write	Aspect 1.88	<cr>*asp=1.88:1#<cr></cr></cr>		New	٧
	Write	Aspect 2.35	<cr>*asp=2.35:1#<cr></cr></cr>		New	٧
	Read	Aspect Status	<cr>*asp=?#<cr></cr></cr>			٧
	Write	Digital Zoom In	<cr>*zooml#<cr></cr></cr>	Lamp On		V
	Write	Digital Zoom out	<cr>*zoomO#<cr></cr></cr>	Lamp On		V
	Write	Auto	<cr>*auto#<cr></cr></cr>	Lamp On		V
	Write	Brilliant color on	<cr>*BC=on#<cr></cr></cr>			Х
	Write	Brilliant color off	<cr>*BC=off#<cr></cr></cr>			х
	Read	Brilliant color status	<cr>*BC=?#<cr></cr></cr>			х
	Write	Projector Position-Front Table	<cr>*pp=FT#<cr></cr></cr>			V
	Write	Projector Position-Rear Table	<cr>*pp=RE#<cr></cr></cr>			٧
	Write	Projector Position-Rear Ceiling	<cr>*pp=RC#<cr></cr></cr>			V
	Write	Projector Position-Front Ceiling	<cr>*pp=FC#<cr></cr></cr>	Lamp On		V
Operation	Write	Projector Position-up Front	<cr>*pp=UF#<cr></cr></cr>			х
Operation	Write	Projector Position-down Front	<cr>*pp=DF#<cr></cr></cr>			х
Settings	Read	Projector Position Status	<cr>*pp=?#<cr></cr></cr>			v
	Write	Quick auto search on(Auto Search	<cr>*QAS=on#<cr></cr></cr>			
		On)		Le 0		V
	Write	Quick auto search off (Auto	<cr>*QAS=off#<cr></cr></cr>	Lamp On		.,
		Search Off)				V
	-	•	•		•	

	Read	Quick auto search status	<cr>*QAS=?#<cr></cr></cr>		v
	Write	On)	<cr>*directpower=on#<cr></cr></cr>		v
	Write	Direct Power On-off(Auto power off)	<cr>*directpower=off#<cr></cr></cr>	Lamp On	v
	Read	Direct Power On-Status	<cr>*directpower=?#<cr></cr></cr>		V
	Write	Signal Power On-on	<cr>*autopower=on#<cr></cr></cr>		х
	Write	Signal Power On-off	<cr>*autopower=off#<cr></cr></cr>	Lamp On	х
	Read	Signal Power On-Status	<cr>*autopower=?#<cr></cr></cr>		х
	Write	Standby Settings-Standard	<cr>*standbynet=standard#<cr></cr></cr>		V
	Write	Standby Settings-Eco	<cr>*standbynet=eco#<cr></cr></cr>		V
	Write	Standby Settings-Network	<cr>*standbynet=network#<cr></cr></cr>		V
	Write	Standby Settings-Network on (Network Standby)	<cr>*standbynet=on#<cr></cr></cr>	Lamp On	х
	Write	Standby Settings-Network off (Normal)	<cr>*standbynet=off#<cr></cr></cr>		х
	Read	Standby Settings-Network Status	<cr>*standbynet=?#<cr></cr></cr>		V
	Write	Standby Settings-Microphone on	<cr>*standbymic=on#<cr></cr></cr>		х
	Write	Standby Settings-Microphone off	<cr>*standbymic=off#<cr></cr></cr>		х
	Read	Standby Settings-Microphone Status	<cr>*standbymic=?#<cr></cr></cr>		х
	Write	Standby Settings-Monitor Out on	<cr>*standbymnt=on#<cr></cr></cr>		х
	Write	Standby Settings-Monitor Out off	<cr>*standbymnt=off#<cr></cr></cr>		х
	Read	Standby Settings-Monitor Out Status	<cr>*standbymnt=?#<cr></cr></cr>		х
	Write	2400	<cr>*baud=2400#<cr></cr></cr>		х
	Write	4800	<cr>*baud=4800#<cr></cr></cr>		х
	Write	9600	<cr>*baud=9600#<cr></cr></cr>		V
	Write	14400	<cr>*baud=14400#<cr></cr></cr>		V
	Write	19200	<cr>*baud=19200#<cr></cr></cr>	Any State	V
	Write	38400	<cr>*baud=38400#<cr></cr></cr>		V
	Write	57600	<cr>*baud=57600#<cr></cr></cr>		V
	Write	115200	<cr>*baud=115200#<cr></cr></cr>		V
	Read	Current Baud Rate	<cr>*baud=?#<cr></cr></cr>		V
Lamp Control	Read	Lamp Hour	<cr>*Itim=?#<cr></cr></cr>	Any State	V

Read Lamp2 Hour CR>*Itim2~P8+CR> V V V V V V V V V	_					
Write Lamp2 hour reset <cr>*Itim2=reset#<cr></cr></cr>		Read	Lamp2 Hour	<cr>*Itim2=?#<cr></cr></cr>		٧
Write Normal mode		Write	Lamp hour reset	<cr>*Itim=reset#<cr></cr></cr>		V
Write Eco mode		Write	Lamp2 hour reset	<cr>*Itim2=reset#<cr></cr></cr>		٧
Write Dual lamp <cr>- Immmd=dual#<cr>- V Write number 1 lamp <cr>- Immd=dual# V V V V V V V V V V </cr></cr></cr>		Write	Normal mode	<cr>*lampm=lnor#<cr></cr></cr>		٧
Write number 1 lamp <cr>* Write number 2 lamp <cr>* Write number 2 lamp <cr>* Write Number 2 lamp <cr>* Write Single lamp (minimum) <cr>* Miscellaneous CR>* Miscel</cr></cr></cr></cr></cr></cr></cr></cr>		Write	Eco mode	<cr>*lampm=eco#<cr></cr></cr>		٧
Write number 2 lamp		Write	Dual lamp	<cr>*lammd=dual#<cr></cr></cr>		٧
Write Single lamp (minimum) <cr>*lammd=single#<cr> V </cr></cr>		Write	number 1 lamp	<cr>*lammd=num1l#<cr></cr></cr>		٧
Read Current Lamp status <cr>*Impm=seco#**CR></cr>		Write	number 2 lamp	<cr>*lammd=num2#<cr></cr></cr>		٧
Write Smart Eco mode <cr>**Iampm=seco#</cr>		Write	Single lamp (minimum)	<cr>*lammd=single#<cr></cr></cr>		٧
Write Smart Eco mode(LampCare) <cr>*lamppm=seco2#<cr></cr></cr>		Read	Current Lamp status	<cr>*lammd=?#<cr></cr></cr>		٧
Write Smart Eco mode(lumenCare) <cr>*lamppm=seco3#<cr> Lamp On X Write(♥ □) Dual Brightest <cr>* lampm = dualtor#<cr> X Write(♥ □) Single Alternative <cr>* lampm = dualtor#<cr> X Write(♥ □) Single Alternative <cr>* lampm = single#<cr> X Write(♥ □) Single Alternative Eco <cr>* lampm = single#<cr> X Read Lamp Mode Status <cr>* lampm = ?#<cr> V Write Blank On <cr>* lampm = ?#<cr> Any State V Write Blank On <cr>* lampm = ?#<cr> V Write Blank On <cr>* lamp On V Read Blank Status <cr>* lamp On V Write Menu On <cr>* lamp On V Write<</cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>		Write	Smart Eco mode	<cr>*lampm=seco#<cr></cr></cr>		Х
Write(to Dual Brightest CR>* lampm =dualbr# <cr> X </cr>		Write	Smart Eco mode(LampCare)	<cr>*lampm=seco2#<cr></cr></cr>		Х
Dual Brightest CR>* lampm =dualbr# <cr> X </cr>		Write	Smart Eco mode(lumenCare)	<cr>*lampm=seco3#<cr></cr></cr>	Lamp On	х
			Dual Brightest	<cr>* lampm =dualbr#<cr></cr></cr>		х
Single Alternative CR>* iampm =single# <cr></cr>			Dual Reliable	<cr>* lampm =dualre#<cr></cr></cr>		х
Single Alternative Eco CR>* lampm = singleeco# <cr></cr>			Single Alternative	<cr>* lampm =single#<cr></cr></cr>		Х
Read Model Name <cr>*modelname=?#<cr></cr></cr>			Single Alternative Eco	<cr>* lampm =singleeco#<cr></cr></cr>		x
Write Blank On <cr>*blank=on#<cr> V Write Blank Off <cr>*blank=off#<cr> Lamp On V Read Blank Status <cr>*tblank=?#<cr> V Write Freeze On <cr>*tfreeze=on# Source Locked V Write Freeze Off <cr>*tfreeze=off# Source Locked V Write Menu On <cr>*tfreeze=?#<cr> V Write Menu On <cr>*menu=off#<<cr> V Write Menu Off <cr>*menu=off#<<cr> V Write Up <cr>*tmenu=?#<cr> V Write Down <cr>*town#<<cr> Lamp On V</cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>		Read	Lamp Mode Status	<cr>*lampm=?#<cr></cr></cr>		V
Write Blank Off <cr>*blank=off#<cr> Lamp On V Read Blank Status <cr>*blank=?#<cr> V Write Freeze On <cr>*freeze=on#<cr> V Write Freeze Off <cr>*freeze=off#<cr> Source Locked V Write Mead Freeze Status <cr>*freeze=?#<cr> V Write Menu On <cr>*menu=on# V Write Menu Off <cr>*menu=off#<cr> V Write Up <cr>*menu=?#<cr> V Write Down <cr>*down#<<cr> Lamp On V</cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>		Read	Model Name	<cr>*modelname=?#<cr></cr></cr>	Any State	V
Read Blank Status CR>*blank=?# <cr></cr>		Write	Blank On	<cr>*blank=on#<cr></cr></cr>		V
Write Freeze On <cr>*freeze=on#<cr> V Write Freeze Off <cr>*freeze=off#<cr> Source Locked V Write Freeze Status <cr>*freeze=?#<cr> V Write Menu On <cr>*menu=on#<cr> V Write Menu Off <cr>*menu=off#<cr> V Read Menu Status <cr>*menu=?#<cr> V Write Up <cr>*up#<cr> V Write Down <cr>*down#<<cr> Lamp On V</cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>		Write	Blank Off	<cr>*blank=off#<cr></cr></cr>	Lamp On	V
Write Freeze Off <cr>*freeze=off#<cr> Source Locked V Write Read Freeze Status <cr>*freeze=?#<cr> V Write Menu On <cr>*menu=on#<cr> V Write Menu Off <cr>*menu=off#<<cr> V Read Menu Status <cr>*menu=?#<cr> V Write Up <cr>*up#<<cr> V Write Down <cr>*down#<<cr> Lamp On V</cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>		Read	Blank Status	<cr>*blank=?#<cr></cr></cr>		V
Read Freeze Status CR>*freeze=?# <cr> V </cr>		Write	Freeze On	<cr>*freeze=on#<cr></cr></cr>		V
Write Menu On <cr>*menu=on#<cr> V Write Menu Off <cr>*menu=off#<cr> Lamp On V Read Menu Status <cr>*menu=?#<cr> V Write Up <cr>*up#<cr> V Write Down <cr>*down#<cr> Lamp On V</cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>		Write	Freeze Off	<cr>*freeze=off#<cr></cr></cr>	Source Locked	V
Write Menu Off <cr>*menu=off#<cr> Lamp On V Read Menu Status <cr>*menu=?#<cr> V Write Up <cr>*up#<cr> V Write Down <cr>*down#<cr> Lamp On V</cr></cr></cr></cr></cr></cr></cr></cr>	Miscellaneous	Read	Freeze Status	<cr>*freeze=?#<cr></cr></cr>		V
Read Menu Status <cr>*menu=?#<cr> V Write Up <cr>*up#<cr> V Write Down <cr>*down#<cr> Lamp On V</cr></cr></cr></cr></cr></cr>		Write	Menu On	<cr>*menu=on#<cr></cr></cr>		V
Write Up <cr>*up#<cr> V Write Down <cr>*down#<cr> Lamp On V</cr></cr></cr></cr>		Write	Menu Off	<cr>*menu=off#<cr></cr></cr>	Lamp On	V
Write Down CR>*down# <cr> Lamp On V</cr>		Read	Menu Status	<cr>*menu=?#<cr></cr></cr>		V
		Write	Up	<cr>*up#<cr></cr></cr>		V
Write Right <cr>*right#<cr></cr></cr>		Write	Down	<cr>*down#<cr></cr></cr>	Lamp On	V
		Write	Right	<cr>*right#<cr></cr></cr>		V

Write	Left	<cr>*left#<cr></cr></cr>		٧
Write	Enter	<cr>*enter#<cr></cr></cr>		٧
Write	3D Sync Off	<cr>*3d=off#<cr></cr></cr>		V
Write	3D Auto	<cr>*3d=auto#<cr></cr></cr>		V
Write	3D Sync Top Bottom	<cr>*3d=tb#<cr></cr></cr>		V
Write	3D Sync Frame Sequential	<cr>*3d=fs#<cr></cr></cr>		V
Write	3D Frame packing	<cr>*3d=fp#<cr></cr></cr>		Х
Write	3D Side by side	<cr>*3d=sbs#<cr></cr></cr>	Source Locked & 3D	V
Write	3D inverter disable(3D	<cr>*3d=da#<cr></cr></cr>	timing	V
	Swap=Normal)			v
Write	3D inverter (3D Swap=Reverse)	<cr>*3d=iv#<cr></cr></cr>		V
Write	2D to 3D	<cr>*3d=2d3d#<cr></cr></cr>		X
Write	3D nVIDIA	<cr>*3d=nvidia#<cr></cr></cr>		X
Read	3D Sync Status	<cr>*3d=?#<cr></cr></cr>		٧
Write	Remote Set	<cr>*rrset=0#<cr></cr></cr>		
				х
			Any State	
Read	Remote Set Status	<cr>*rrset=?#<cr></cr></cr>		x
Write Write	Remote Receiver-front+rear Remote Receiver-front	<cr>*rr=fr#<cr></cr></cr>		X
		<cr>*rr=f#<cr></cr></cr>		X
Write	Remote Receiver-rear	<cr>*rr=r#<cr></cr></cr>		X
Write	Remote Receiver-top	<cr>*rr=t#<cr></cr></cr>		X
Write	Remote Receiver-top+front	<cr>*rr=tf#<cr></cr></cr>		X
Write	Remote Receiver-top+rear	<cr>*rr=tr#<cr></cr></cr>		X
Read	Remote Receiver Status	<cr>*rr=?#<cr></cr></cr>		X
Write	Instant On-on	<cr>*ins=on#<cr></cr></cr>		Х
Write	Instant On-off	<cr>*ins=off#<cr></cr></cr>		X
Read	Instant On Status	<cr>*ins=?#<cr></cr></cr>		X
Write	Lamp Saver Mode-on	<cr>*lpsaver=on#<cr></cr></cr>		X
Write	Lamp Saver Mode-off	<cr>*Ipsaver=off#<cr></cr></cr>		X
Read	Lamp Saver Mode Status	<cr>*lpsaver=?#<cr></cr></cr>		Х
Write	Projection Log In Code on	<cr>*prjlogincode=on#<cr></cr></cr>		Х
Write	Projection Log In Code off	<cr>*prjlogincode=off#<cr></cr></cr>		Х
Read	Projection Log In Code Status	<cr>*prjlogincode=?#<cr></cr></cr>		Х
Write	Broadcasting on	<cr>*broadcasting=on#<cr></cr></cr>		X

Write	Broadcasting off	<cr>*broadcasting=off#<cr></cr></cr>		Х
Read	Broadcasting Status	<cr>*broadcasting=?<cr></cr></cr>		х
Write	AMX Device Discovery-on	<cr>*amxdd=on#<cr></cr></cr>		Х
Write	AMX Device Discovery-off	<cr>*amxdd=off#<cr></cr></cr>		х
Read	AMX Device Discovery Status	<cr>*amxdd=?#<cr></cr></cr>		х
Read	Mac Address	<cr>*macaddr=?#<cr></cr></cr>		х
Write	Trigger on	<cr>*trigger=on#<cr></cr></cr>		V
Write	Trigger off	<cr>*trigger=off#<cr></cr></cr>	Lamp On	V
Read	Trigger status	<cr>*trigger=?#<cr></cr></cr>		V
Write	High Altitude mode on	<cr>*Highaltitude=on#<cr></cr></cr>		V
Write	High Altitude mode off	<cr>*Highaltitude=off#<cr></cr></cr>	Lamp On	V
Read	High Altitude mode status	<cr>*Highaltitude=?#<cr></cr></cr>		V
Read	Error Code	<cr>*error=report#<cr></cr></cr>	Any State	V
Write	Serial Number code1	<cr>V99N1234<cr></cr></cr>	A.v. Otata	х
Read	Serial Number Query	<cr>V99N0000<cr></cr></cr>	Any State	Х
Write	Lens Shift Up	<cr>*lst=up#<cr></cr></cr>		V
Write	Lens Shift Down	<cr>*lst=down#<cr></cr></cr>	Lamp On	٧
Write	Lens Shift Left	<cr>*lst=left#<cr></cr></cr>		V
Write	Lens Shift Right	<cr>*lst=right#<cr></cr></cr>		V
Write	Focus Plus	<cr>*focus=+#<cr></cr></cr>	Larra On	V
Write	Focus Minus	<cr>*focus=-#<cr></cr></cr>	Lamp On	V
Write	Zoom Plus	<cr>*zoom=+#<cr></cr></cr>	Larra On	V
Write	Zoom Minus	<cr>*zoom=-#<cr></cr></cr>	Lamp On	V
Write	Keystone-Vertical Decrease	<cr>*keyst=-#<cr></cr></cr>		V
Write	Keystone-Vertical Increase	<cr>*keyst=+#<cr></cr></cr>	Lamp On	V
Read	Keystone-Vertical Status	<cr>*keyst=?#<cr></cr></cr>		V
Write	AutoSync	NA		Х
Read	Get Filter Timer	NA		X
Write	System Reset	NA		Х
Read	Get F/W Version	NA		Х
Read	Get Tint	NA		х
Write	Set Tint	NA		Х
Read	Get Keystone value	NA		х

Write	Set Keystone value	NA		X
Read	Get Messaging	NA		Х
Write	Set Messaging	NA		Х