

## LCD Projector

# MP-WU5603/MP-WU5503 MP-WX5603/MP-WX5503

## User's Manual (detailed) Operating Guide – Technical

Supported signals for COMPUTER IN

Resolution (H x V)	Signal mode	H. frequency (kHz)	V. frequency (Hz)	Rating
720 x 400	TEXT	37.9	85	VESA
640 x 480	VGA (60Hz)	31.5	59.9	VESA
	VGA (72Hz)	37.9	72.8	VESA
	VGA (75Hz)	37.5	75	VESA
	VGA (85Hz)	43.3	85	VESA
800 x 600	SVGA (56Hz)	35.2	56.3	VESA
	SVGA (60Hz)	37.9	60.3	VESA
	SVGA (72Hz)	48.1	72.2	VESA
	SVGA (75Hz)	46.9	75	VESA
	SVGA (85Hz)	53.7	85.1	VESA
832 x 624	Mac 16" mode	49.7	74.5	
1024 x 768	XGA (60Hz)	48.4	60	VESA
	XGA (70Hz)	56.5	70.1	VESA
	XGA (75Hz)	60	75	VESA
	XGA (85Hz)	68.7	85	VESA
1152 x 864	1152 x 864 (75Hz)	67.5	75	VESA
1280 x 768	W-XGA (60Hz)	47.7	60	VESA
1280 x 800	1280 x 800 (60Hz)	49.7	60	VESA
1280 x 1024	SXGA (60Hz)	64	60	VESA
	SXGA (75Hz)	80	75	VESA
	SXGA (85Hz)	91.1	85	VESA
1440 x 900	WXGA+ (60Hz)	55.9	59.9	VESA
1600 x 900	WXGA++ (60Hz)	60	60	VESA
1680 x 1050	WSXGA+ (60Hz)	65.3	60	VESA
1600 x 1200	UXGA (60Hz)	75	60	VESA
1920 x 1080	Full HD (60Hz)	67.5	60	VESA
*1) 1920 x 1200	W-UXGA (60Hz) Reduced Blanking	74	60	VESA

\*1) Only for [WUXGA Model]

## Supported signals

### Supported signals for HDMI1

Resolution (H x V)	Signal mode	H. frequency (kHz)	V. frequency (Hz)	Rating
720 x 400	TEXT	37.9	85	VESA
640 x 480	VGA (60Hz)	31.5	59.9	VESA
	VGA (72Hz)	37.9	72.8	VESA
	VGA (75Hz)	37.5	75	VESA
	VGA (85Hz)	43.3	85	VESA
800 x 600	SVGA (56Hz)	35.2	56.3	VESA
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	SVGA (72Hz)	48.1	72.2	VESA
	SVGA (75Hz)	46.9	75	VESA
	SVGA (85Hz)	53.7	85.1	VESA
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	XGA (70Hz)	56.5	70.1	VESA
	XGA (75Hz)	60	75	VESA
	XGA (85Hz)	68.7	85	VESA
1152 x 864	1152 x 864 (75Hz)	67.5	75	VESA
1280 x 768	W-XGA (60Hz)	47.7	60	VESA
1280 x 800	1280 x 800 (60Hz)	49.7	60	VESA
1280 x 1024	SXGA (60Hz)	64	60	VESA
	SXGA (75Hz)	80	75	VESA
	SXGA (85Hz)	91.1	85	VESA
1366 x 768	WXGA (60Hz)	47.7	59.8	VESA
1440 x 900	WXGA+ (60Hz)	55.9	59.9	VESA
1600 x 900	WXGA++ (60Hz)	60	60	VESA
1400 x 1050	SXGA+ (60Hz)	65.2	60	VESA
1680 x 1050	WSXGA+ (60Hz)	65.3	60	VESA
1600 x 1200	UXGA (60Hz)	75	60	VESA
*1) 1920 x 1200	W-UXGA (60Hz) Reduced Blanking	74	60	VESA
720(1440) x 480i	480i	15.7	60	CEA
720(1440) x 576i	576i	15.6	50	CEA
720 x 480p	480p	31.5	60	CEA
720 x 576p	576p	31.3	50	CEA
1280 x 720p	720p (50Hz)	37.5	50	CEA
	720p (60Hz)	45	60	CEA
1920 x 1080i	1080i (50Hz)	28.1	50	CEA
	1080i (60Hz)	33.8	60	CEA
1920 x 1080p	1080p (50Hz)	56.3	50	CEA
	1080p (60Hz)	67.5	60	CEA

\*1) Only for [WUXGA Model]

# Supported signals

## Supported signals for HDMI1

Resolution (H x V)	Signal mode	H. frequency (kHz)	V. frequency (Hz)	Rating
3840 x 2160p	4K (24Hz)	54	24	CEA
	4K (25Hz)	56.3	25	CEA
	4K (30Hz)	67.5	30	CEA
4096 x 2160p	4K (SMPTE) (24Hz)	54	24	CEA
	4K (SMPTE) (25Hz)	56.3	25	CEA
	4K (SMPTE) (30Hz)	67.5	30	CEA

## Supported signals for HDMI2

Resolution (H x V)	Signal mode	H. frequency (kHz)	V. frequency (Hz)	Rating
720 x 400	TEXT	37.9	85	VESA
640 x 480	VGA (60Hz)	31.5	59.9	VESA
	VGA (72Hz)	37.9	72.8	VESA
	VGA (75Hz)	37.5	75	VESA
	VGA (85Hz)	43.3	85	VESA
800 x 600	SVGA (56Hz)	35.2	56.3	VESA
	SVGA (60Hz)	37.9	60.3	VESA
	SVGA (72Hz)	48.1	72.2	VESA
	SVGA (75Hz)	46.9	75	VESA
	SVGA (85Hz)	53.7	85.1	VESA
832 x 624	Mac 16" mode	49.7	74.5	
1024 x 768	XGA (60Hz)	48.4	60	VESA
	XGA (70Hz)	56.5	70.1	VESA
	XGA (75Hz)	60	75	VESA
	XGA (85Hz)	68.7	85	VESA
1152 x 864	1152 x 864 (75Hz)	67.5	75	VESA
1280 x 768	W-XGA (60Hz)	47.7	60	VESA
1280 x 800	1280 x 800 (60Hz)	49.7	60	VESA
1280 x 1024	SXGA (60Hz)	64	60	VESA
	SXGA (75Hz)	80	75	VESA
	SXGA (85Hz)	91.1	85	VESA
1366 x 768	WXGA (60Hz)	47.7	59.8	VESA
1440 x 900	WXGA+ (60Hz)	55.9	59.9	VESA
1600 x 900	WXGA++ (60Hz)	60	60	VESA
1680 x 1050	WSXGA+ (60Hz)	65.3	60	VESA
1600 x 1200	UXGA (60Hz)	75	60	VESA
*1) 1920 x 1200	W-UXGA (60Hz) Reduced Blanking	74	60	VESA
720(1440) x 480i	480i	15.7	60	CEA
720(1440) x 576i	576i	15.6	50	CEA
720 x 480p	480p	31.5	60	CEA
720 x 576p	576p	31.3	50	CEA
1280 x 720p	720p (50Hz)	37.5	50	CEA
	720p (60Hz)	45	60	CEA
1920 x 1080i	1080i (50Hz)	28.1	50	CEA
	1080i (60Hz)	33.8	60	CEA
1920 x 1080p	1080p (50Hz)	56.3	50	CEA
	1080p (60Hz)	67.5	60	CEA

\*1) Only for [WUXGA Model]

## Supported signals for HDBaseT

Resolution (H x V)	Signal mode	H. frequency (kHz)	V. frequency (Hz)	Rating
720 x 400	TEXT	37.9	85	VESA
640 x 480	VGA (60Hz)	31.5	59.9	VESA
	VGA (72Hz)	37.9	72.8	VESA
	VGA (75Hz)	37.5	75	VESA
	VGA (85Hz)	43.3	85	VESA
800 x 600	SVGA (56Hz)	35.2	56.3	VESA
	SVGA (60Hz)	37.9	60.3	VESA
	SVGA (72Hz)	48.1	72.2	VESA
	SVGA (75Hz)	46.9	75	VESA
	SVGA (85Hz)	53.7	85.1	VESA
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	XGA (75Hz)	60	75	VESA
	XGA (85Hz)	68.7	85	VESA
1152 x 864	1152 x 864 (75Hz)	67.5	75	VESA
1280 x 768	W-XGA (60Hz)	47.7	60	VESA
1280 x 800	1280 x 800 (60Hz)	49.7	60	VESA
1280 x 1024	SXGA (60Hz)	64	60	VESA
	SXGA (75Hz)	80	75	VESA
	SXGA (85Hz)	91.1	85	VESA
1366 x 768	WXGA (60Hz)	47.7	59.8	VESA
1440 x 900	WXGA+ (60Hz)	55.9	59.9	VESA
1600 x 900	WXGA++ (60Hz)	60	60	VESA
1400 x 1050	SXGA+ (60Hz)	65.2	60	VESA
1680 x 1050	WSXGA+ (60Hz)	65.3	60	VESA
1600 x 1200	UXGA (60Hz)	75	60	VESA
*1) 1920 x 1200	W-UXGA (60Hz) Reduced Blanking	74	60	VESA
720(1440) x 480i	480i	15.7	60	CEA
720(1440) x 576i	576i	15.6	50	CEA
720 x 480p	480p	31.5	60	CEA
720 x 576p	576p	31.3	50	CEA
1280 x 720p	720p (50Hz)	37.5	50	CEA
	720p (60Hz)	45	60	CEA
1920 x 1080i	1080i (50Hz)	28.1	50	CEA
	1080i (60Hz)	33.8	60	CEA
1920 x 1080p	1080p (50Hz)	56.3	50	CEA
	1080p (60Hz)	67.5	60	CEA

\*1) Only for [WUXGA Model]

## Supported signals

### Supported signals for HDBaseT

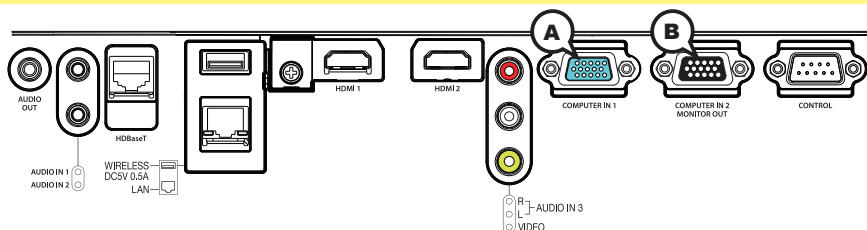
Resolution (H x V)	Signal mode	H. frequency (kHz)	V. frequency (Hz)	Rating
3840 x 2160p	4K (24Hz)	54	24	CEA
	4K (25Hz)	56.3	25	CEA
	4K (30Hz)	67.5	30	CEA
4096 x 2160p	4K (SMPTE) (24Hz)	54	24	CEA
	4K (SMPTE) (25Hz)	56.3	25	CEA
	4K (SMPTE) (30Hz)	67.5	30	CEA

- NOTE**
- Be sure to check jack type, signal level, timing and resolution before connecting this projector to a PC.
  - Some PCs may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
  - Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.
  - The signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and projector panel are identical.
  - Automatic adjustment may not function correctly with some input signals.
  - The image may not be displayed correctly when the input sync signal is a composite sync or a sync on G.
  - The illustrations in this manual are for illustrative purposes. They may differ slightly from your projector.

## Connection to the ports

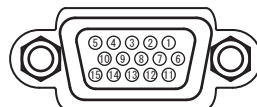
**NOTICE** ► Use the cables with straight plugs, not L-shaped ones, as the input ports of the projector are recessed.

► Only the signal that is input from the **COMPUTER IN1** can be output from the **COMPUTER IN2/MONITOR OUT** port. The way is available only when the MONITOR OUT is selected for the COMPUTER IN2. (📘INPUT menu - COMPUTER IN in the Operating Guide)



### ⒶCOMPUTER IN1, ⒷCOMPUTER IN2/MONITOR OUT

D-sub 15pin mini shrink jack



#### (1) for PC signal

- Video signal: RGB separate, Analog, 0.7Vp-p, 75Ω terminated (positive)
- H/V. sync. Signal: TTL level (positive/negative)
- Composite sync. Signal: TTL level

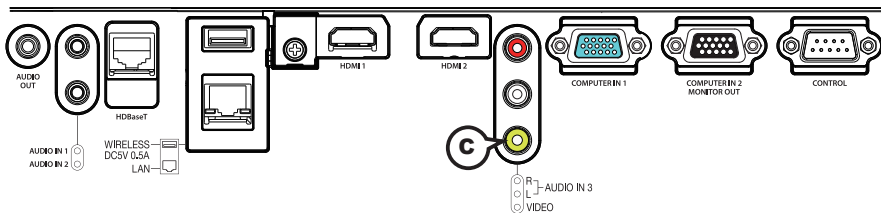
Pin	Signal	Pin	Signal
1	Video Red	10	Ground
2	Video Green	11	(No connection)
3	Video Blue	12	Ⓐ: SDA (DDC data) Ⓑ: (No connection)
4	(No connection)	13	H. sync / Composite sync.
5	Ground	14	V. sync.
6	Ground Red	15	Ⓐ: SCL (DDC clock) Ⓑ: (No connection)
7	Ground Green		
8	Ground Blue		
9	(No connection)	-	-

#### (2) for Component signal

- Y : Component video Y with composite sync, 1.0±0.1 Vp-p, 75 Ω terminator
  - Cr/Pr : Component video Cr/Pr, 0.7±0.1 Vp-p, 75 Ω terminator
  - Cb/Pb : Component video Cb/Pb, 0.7±0.1 Vp-p, 75 Ω terminator
- System:480i@60,480p@60,576i@50,576p@50,720p@50/60,1080i@50/60,1080p@50/60

Pin	Signal	Pin	Signal
1	Cr/Pr	9	(No connection)
2	Y	10	Ground
3	Cb/Pb	11	(No connection)
4	(No connection)	12	(No connection)
5	Ground	13	(No connection)
6	Ground Cr/Pr	14	(No connection)
7	Ground Y	15	(No connection)
8	Ground Cb/Pb	-	-

## Connection to the ports (continued)

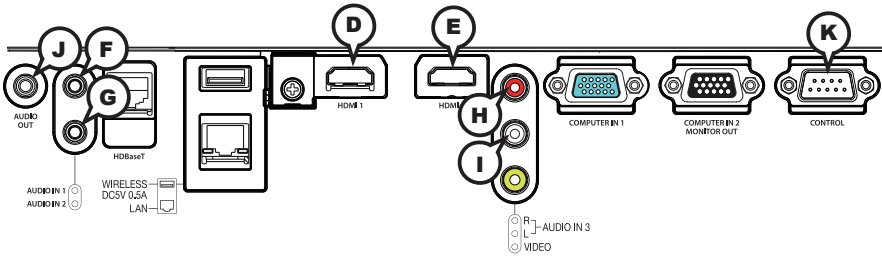


## ©VIDEO

### RCA jack

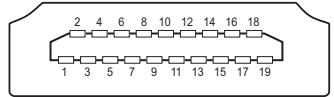
- System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL(60Hz)
- $1.0 \pm 0.1 \text{Vp-p}$ ,  $75\Omega$  terminator





## ⒹHDMI1 ⒺHDMI2

- Type :Digital audio/video connector
- Audio signal : Linear PCM (Sampling rate; 32/44.1/48 kHz)



Pin	Signal	Pin	Signal	Pin	Signal
1	T.M.D.S. Data2	8	T.M.D.S. Data0 Shield	15	SCL
2	T.M.D.S. Data2 Shield	9	T.M.D.S. Data0 -	16	SDA
3	T.M.D.S. Data2 -	10	T.M.D.S. Clock +	17	DDC/CEC Ground
4	T.M.D.S. Data1 +	11	T.M.D.S. Clock Shield	18	+5V Power
5	T.M.D.S. Data1 Shield	12	T.M.D.S. Clock -	19	Hot Plug Detect
6	T.M.D.S. Data1 -	13	CEC		
7	T.M.D.S. Data0 +	14	Reserved(N.C. on device)		

## ⒻAUDIO IN1 ⒼAUDIO IN2

- Ø3.5 stereo mini jack
- 47kΩ terminator

## AUDIO IN3 ⒽR, ⓁL

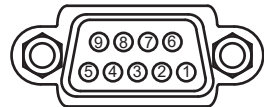
- RCA jack x2
- 47kΩ terminator

## ⒿAUDIO OUT

- Ø3.5 stereo mini jack
- 1kΩ output impedance

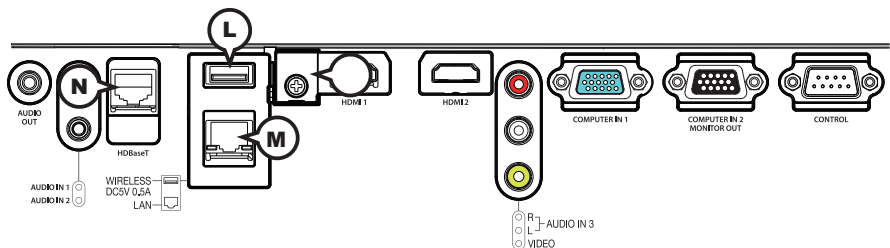
## ⓀCONTROL

- D-sub 9pin plug
- About the details of RS-232C communication, please refer to the section "RS-232C Communication".



Pin	Signal	Pin	Signal	Pin	Signal
1	(No connection)	4	(No connection)	7	RTS
2	RD	5	Ground	8	CTS
3	TD	6	(No connection)	9	(No connection)

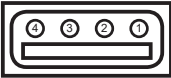
Connection to the ports (continued)



**L WIRELESS**

Only for USB wireless adapter

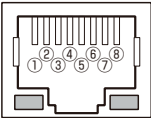
Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground



**M LAN**

RJ-45 jack

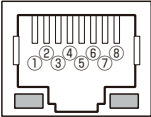
Pin	Signal	Pin	Signal	Pin	Signal
1	TX+	4	-	7	-
2	TX-	5	-	8	-
3	RX+	6	RX-		



**N HDBaseT**

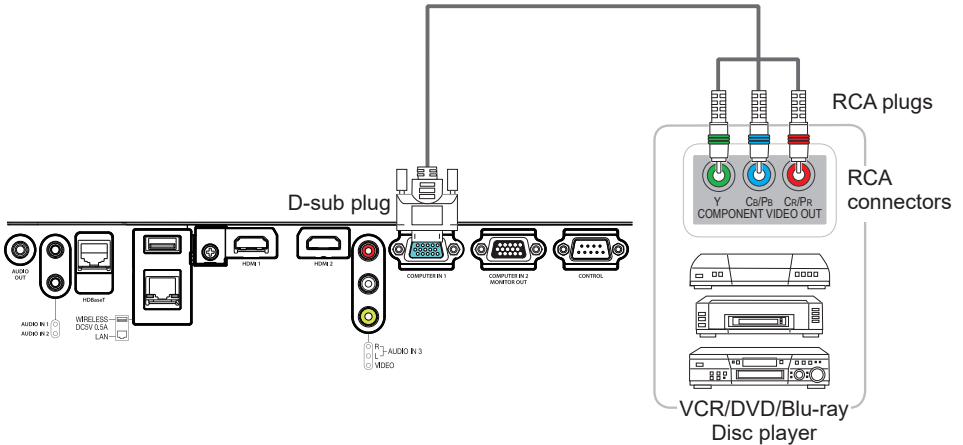
RJ-45 jack

Pin	Signal	Pin	Signal	Pin	Signal
1	HDBaseT0+	4	HDBaseT2+	7	HDBaseT3+
2	HDBaseT0-	5	HDBaseT2-	8	HDBaseT3-
3	HDBaseT1+	6	HDBaseT1-		



## To input component video signal to **COMPUTER IN** ports

ex.



To input component video signal to the **COMPUTER IN1** or **IN2** port of the projector, use a RCA to D-sub cable or adapter.

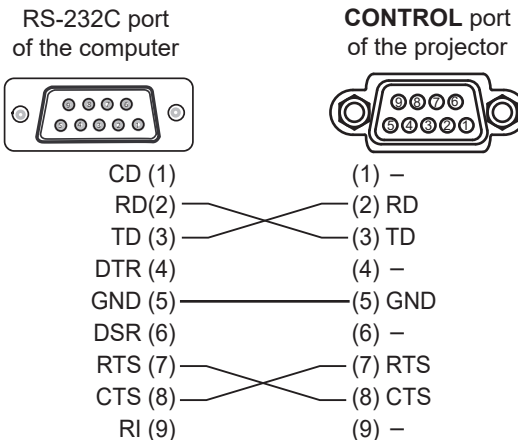
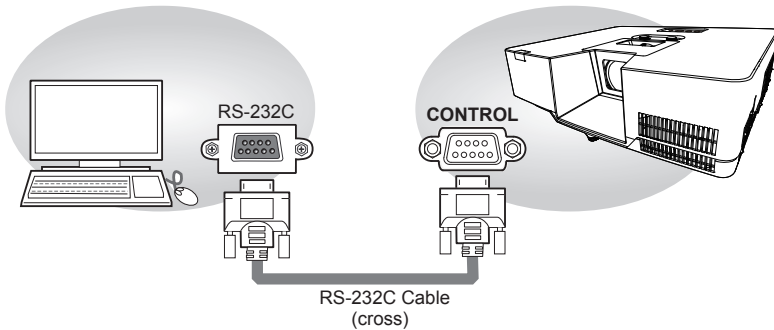
For about the pin description of the required cable or adapter, refer to the descriptions about **COMPUTER IN1** and **IN2** port ([book icon](#)4).

## RS-232C Communication

When the projector connects to the computer by RS-232C communication, the projector can be controlled with RS-232C commands from the computer. For details of RS-232C commands, refer to RS-232C Communication / Network command table (18).

### Connection

1. Turn off the projector and the computer.
2. Connect the projector's **CONTROL** port and the computer's RS-232C port with a RS-232C cable (cross). Use the cable that fulfills the specification shown in figure
3. Turn the computer on, and after the computer has started up turn the projector on.
4. Set the COMMUNICATION TYPE to OFF. (OPTION menu - SERVICE - COMMUNICATION in the Operating Guide)



# Communication settings

## 1. Protocol

19200bps,8N1

## 2. Command format ("h" shows hexadecimal)

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

### [Header code] [Packet] [Data size]

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

### [CRC flag]

For byte number 5, 6, refer to RS-232C Communication / Network command table ([18](#)).

### [Action]

Set functional code to byte number 7, 8.

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

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

Refer to the Communication command table ([above](#)).

### [Type] [Setting code]

For byte number 9~12, refer to RS-232C Communication / Network command table ([18](#)).

**3. Response code / Error code** ("h" shows hexadecimal)**(1) ACK reply : 06h**

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

**(2) NAK reply : 15h**

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

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

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

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

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

**(4) Data reply : 1Dh + xxxh**

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

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

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

## Command Control via the Network

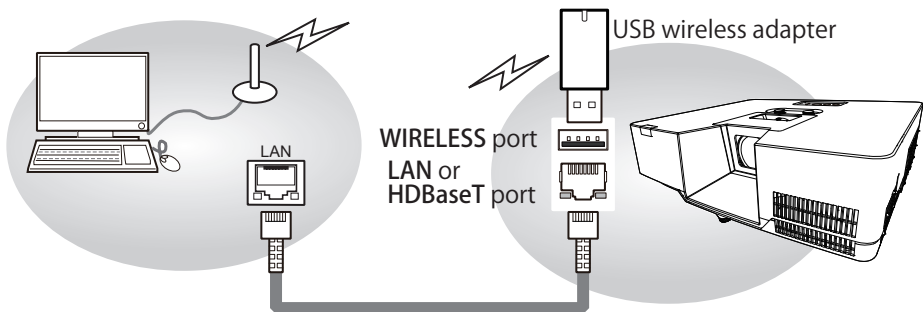
When the projector connects network, the projector can be controlled with RS-232C commands from the computer with web browser.

For details of RS-232C commands, refer to RS-232C Communication / Network command table (📖18).

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

## Connection

1. Turn off the projector and the computer.
2. If you use wired LAN, connect the projector's **LAN** or **HDBaseT** port to the computer's LAN or HDBaseT port with a LAN cable. Use the cable that fulfills the specification shown in figure. If you use wireless LAN, insert the USB wireless adapter into the projector's **WIRELESS** port.
3. Turn the computer on, and after the computer has started up turn the projector on.



- LAN cable (CAT-5e or greater)
- or
- For HDBaseT connection
  - CAT-5e or greater
  - shielded type (connectors included)
  - straight cable
  - single cable

## Communication Port

The following two ports are assigned for the command control.

TCP #23

TCP #9715

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

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

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

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



## Command control settings

### [TCP #23]

#### 1. Command format

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

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

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

##### (1) ACK reply : 06h

Refer to RS-232C communication (11).

##### (2) NAK reply : 15h

Refer to RS-232C communication (11).

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

Refer to RS-232C communication (11).

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

Refer to RS-232C communication (11).

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

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

### [TCP #9715]

#### 1. Command format

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

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

##### [Header]

02, Fixed

##### [Data Length]

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

##### [RS-232C commands]

Refer to RS-232C Communication command format (10).

##### [Check Sum]

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

##### [Connection ID]

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

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

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

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

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

- (1) ACK reply : 06h + xxh (xxh : connection ID)
- (2) NAK reply : 15h + xxh
- (3) Error reply : 1Ch + 0000h + xxh
- (4) Data reply : 1Dh + xxxh + xxh
- (5) Authentication error reply : 1Fh + 0400h + xxh
- (6) Projector busy reply: 1Fh + xxxh + xxh

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

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

## Automatic Connection Break

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

## Authentication

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

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

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

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

## Network Bridge Communication


This projector is equipped with NETWORK BRIDGE function.

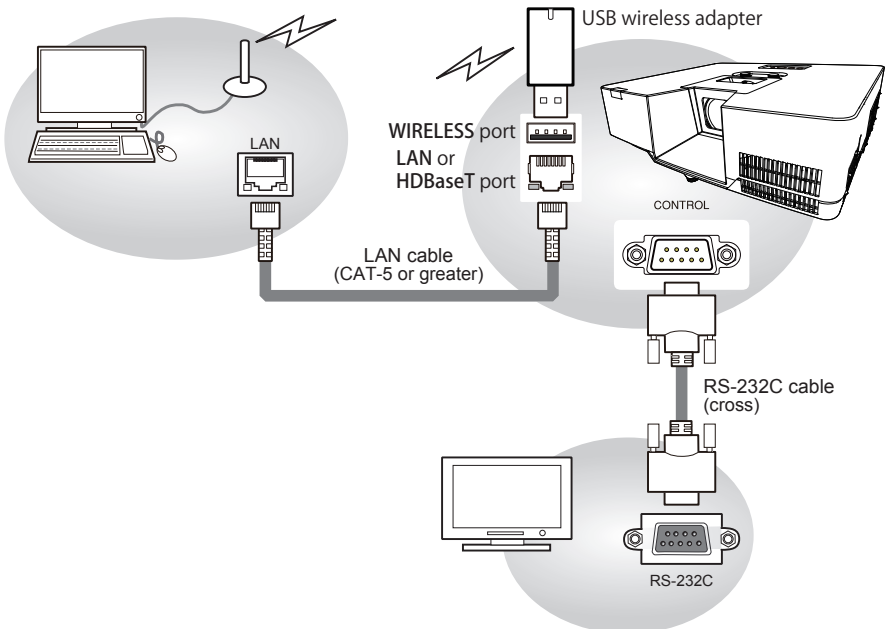
When the projector connects to the computer by LAN communication, an external device that is connected with this projector by RS-232C communication can be controlled from the computer as a network terminal.

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

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

## Connection

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



## Communication settings

For communication setting, use the OPTION - SERVICE - COMMUNICATION menu.

( **OPTION menu - SERVICE - COMMUNICATION in the Operating Guide**)

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

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

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

## RS-232C Communication / Network command table

Names		Operation Type		Header				Command Data		
				CRC		Action	Type	Setting code		
Power	Set	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00	
		Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00	
	Get	[Example return] 00 00                      01 00                      02 00 [Off]                      [On]                      [Cool down]								
Input Source	Set	COMPUTER IN1	BE EF	03	06 00	FE D2	01 00	00 20	00 00	
		COMPUTER IN2	BE EF	03	06 00	3E D0	01 00	00 20	04 00	
		HDMI 1	BE EF	03	06 00	0E D2	01 00	00 20	03 00	
		HDMI 2	BE EF	03	06 00	6E D6	01 00	00 20	0D 00	
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00	
		LAN	BE EF	03	06 00	CE D5	01 00	00 20	0B 00	
		HDBaseT	BE EF	03	06 00	AE DE	01 00	00 20	11 00	
	Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00		
Error Status	Get	[Example return] 00 00   02 00                      03 00 [Normal]   [Fan error]   [Light source error] 04 00, 5A 00, 63 00                      05 00   07 00, 0A 00   08 00 [Temp error]                      [Air flow error]   [Cold error]   [Filter error] 13 00    23 00    65 00 [Light Source-1 warning]   [Light Source-2 warning]   [Other error]								
MAGNIFY	Get	BE EF	03	06 00	7C D2	02 00	07 30	00 00		
	Increment	BE EF	03	06 00	1A D2	04 00	07 30	00 00		
	Decrement	BE EF	03	06 00	CB D3	05 00	07 30	00 00		
Magnify Position H	Get	BE EF	03	06 00	C8 D7	02 00	10 30	00 00		
	Increment	BE EF	03	06 00	AE D7	04 00	10 30	00 00		
	Decrement	BE EF	03	06 00	7F D6	05 00	10 30	00 00		
Magnify Position V	Get	BE EF	03	06 00	34 D6	02 00	11 30	00 00		
	Increment	BE EF	03	06 00	52 D6	04 00	11 30	00 00		
	Decrement	BE EF	03	06 00	83 D7	05 00	11 30	00 00		
FREEZE	Set	NORMAL	BE EF	03	06 00	83 D2	01 00	02 30	00 00	
		FREEZE	BE EF	03	06 00	13 D3	01 00	02 30	01 00	
	Get	BE EF	03	06 00	B0 D2	02 00	02 30	00 00		

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

Names	Operation Type		Header				Command Data		
						CRC	Action	Type	Setting code
PICTURE MODE	Set	STANDARD	BE EF	03	06 00	83 F5	01 00	BA 30	06 00
		NATURAL	BE EF	03	06 00	23 F6	01 00	BA 30	00 00
		CINEMA	BE EF	03	06 00	B3 F7	01 00	BA 30	01 00
		DYNAMIC	BE EF	03	06 00	E3 F4	01 00	BA 30	04 00
		WHITEBOARD	BE EF	03	06 00	83 EE	01 00	BA 30	22 00
		DICOM SIM.	BE EF	03	06 00	73 C6	01 00	BA 30	41 00
		USER-1	BE EF	03	06 00	E3 FB	01 00	BA 30	10 00
		USER-2	BE EF	03	06 00	73 FA	01 00	BA 30	11 00
		USER-3	BE EF	03	06 00	83 FA	01 00	BA 30	12 00
BRIGHTNESS		Get	BE EF	03	06 00	10 F6	02 00	BA 30	00 00
		Get	BE EF	03	06 00	89 D2	02 00	03 20	00 00
		Increment	BE EF	03	06 00	EF D2	04 00	03 20	00 00
		Decrement	BE EF	03	06 00	3E D3	05 00	03 20	00 00
BRIGHTNESS Reset		Execute	BE EF	03	06 00	58 D3	06 00	00 70	00 00
CONTRAST		Get	BE EF	03	06 00	FD D3	02 00	04 20	00 00
		Increment	BE EF	03	06 00	9B D3	04 00	04 20	00 00
		Decrement	BE EF	03	06 00	4A D2	05 00	04 20	00 00
CONTRAST Reset		Execute	BE EF	03	06 00	A4 D2	06 00	01 70	00 00
GAMMA	Set	1 DEFAULT	BE EF	03	06 00	07 E9	01 00	A1 30	20 00
		1 CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00
		2 DEFAULT	BE EF	03	06 00	97 E8	01 00	A1 30	21 00
		2 CUSTOM	BE EF	03	06 00	97 FC	01 00	A1 30	11 00
		3 DEFAULT	BE EF	03	06 00	67 E8	01 00	A1 30	22 00
		3 CUSTOM	BE EF	03	06 00	67 FC	01 00	A1 30	12 00
		4 DEFAULT	BE EF	03	06 00	F7 E9	01 00	A1 30	23 00
		4 CUSTOM	BE EF	03	06 00	F7 FD	01 00	A1 30	13 00
		5 DEFAULT	BE EF	03	06 00	C7 EB	01 00	A1 30	24 00
		5 CUSTOM	BE EF	03	06 00	C7 FF	01 00	A1 30	14 00
		6 DEFAULT	BE EF	03	06 00	57 EA	01 00	A1 30	25 00
		6 CUSTOM	BE EF	03	06 00	57 FE	01 00	A1 30	15 00
		7 DEFAULT	BE EF	03	06 00	A7 EA	01 00	A1 30	26 00
		7 CUSTOM	BE EF	03	06 00	A7 FE	01 00	A1 30	16 00
		8 DEFAULT	BE EF	03	06 00	37 EB	01 00	A1 30	27 00
	8 CUSTOM	BE EF	03	06 00	37 FF	01 00	A1 30	17 00	
	Get	BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	
ACCENTUALIZER		Get	BE EF	03	06 00	5D 70	02 00	0C 22	00 00
		Increment	BE EF	03	06 00	3B 70	04 00	0C 22	00 00
		Decrement	BE EF	03	06 00	EA 71	05 00	0C 22	00 00
ACCENTUALIZER RESET		Execute	BE EF	03	06 00	C8 DB	06 00	2C 70	00 00
HDCR		Get	BE EF	03	06 00	A1 71	02 00	0D 22	00 00
		Increment	BE EF	03	06 00	C7 71	04 00	0D 22	00 00
		Decrement	BE EF	03	06 00	16 70	05 00	0D 22	00 00
HDCR RESET		Execute	BE EF	03	06 00	34 DA	06 00	2D 70	00 00

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

Names	Operation Type	Header				Command Data		
						CRC	Action	Type
User Gamma Point 1	Get	BE EF	03	06 00	08 FE	02 00	90 30	00 00
	Increment	BE EF	03	06 00	6E FE	04 00	90 30	00 00
	Decrement	BE EF	03	06 00	BF FF	05 00	90 30	00 00
User Gamma Point 1 Reset	Execute	BE EF	03	06 00	58 C2	06 00	50 70	00 00
User Gamma Point 2	Get	BE EF	03	06 00	F4 FF	02 00	91 30	00 00
	Increment	BE EF	03	06 00	92 FF	04 00	91 30	00 00
	Decrement	BE EF	03	06 00	43 FE	05 00	91 30	00 00
User Gamma Point 2 Reset	Execute	BE EF	03	06 00	A4 C3	06 00	51 70	00 00
User Gamma Point 3	Get	BE EF	03	06 00	B0 FF	02 00	92 30	00 00
	Increment	BE EF	03	06 00	D6 FF	04 00	92 30	00 00
	Decrement	BE EF	03	06 00	07 FE	05 00	92 30	00 00
User Gamma Point 3 Reset	Execute	BE EF	03	06 00	E0 C3	06 00	52 70	00 00
User Gamma Point 4	Get	BE EF	03	06 00	4C FE	02 00	93 30	00 00
	Increment	BE EF	03	06 00	2A FE	04 00	93 30	00 00
	Decrement	BE EF	03	06 00	FB FF	05 00	93 30	00 00
User Gamma Point 4 Reset	Execute	BE EF	03	06 00	1C C2	06 00	53 70	00 00
User Gamma Point 5	Get	BE EF	03	06 00	38 FF	02 00	94 30	00 00
	Increment	BE EF	03	06 00	5E FF	04 00	94 30	00 00
	Decrement	BE EF	03	06 00	8F FE	05 00	94 30	00 00
User Gamma Point 5 Reset	Execute	BE EF	03	06 00	68 C3	06 00	54 70	00 00
User Gamma Point 6	Get	BE EF	03	06 00	C4 FE	02 00	95 30	00 00
	Increment	BE EF	03	06 00	A2 FE	04 00	95 30	00 00
	Decrement	BE EF	03	06 00	73 FF	05 00	95 30	00 00
User Gamma Point 6 Reset	Execute	BE EF	03	06 00	94 C2	06 00	55 70	00 00
User Gamma Point 7	Get	BE EF	03	06 00	80 FE	02 00	96 30	00 00
	Increment	BE EF	03	06 00	E6 FE	04 00	96 30	00 00
	Decrement	BE EF	03	06 00	37 FF	05 00	96 30	00 00
User Gamma Point 7 Reset	Execute	BE EF	03	06 00	D0 C2	06 00	56 70	00 00
User Gamma Point 8	Get	BE EF	03	06 00	7C FF	02 00	97 30	00 00
	Increment	BE EF	03	06 00	1A FF	04 00	97 30	00 00
	Decrement	BE EF	03	06 00	CB FE	05 00	97 30	00 00
User Gamma Point 8 Reset	Execute	BE EF	03	06 00	2C C3	06 00	57 70	00 00

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

Names	Operation Type		Header				Command Data		
						CRC	Action	Type	Setting code
COLOR TEMP	Set	1 HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00
		1 CUSTOM	BE EF	03	06 00	CB F8	01 00	B0 30	13 00
		2 MID-1	BE EF	03	06 00	9B F4	01 00	B0 30	02 00
		2 CUSTOM	BE EF	03	06 00	5B F9	01 00	B0 30	12 00
		3 MID-2	BE EF	03	06 00	3B F7	01 00	B0 30	04 00
		3 CUSTOM	BE EF	03	06 00	FB FA	01 00	B0 30	14 00
		4 LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00
		4 CUSTOM	BE EF	03	06 00	AB F9	01 00	B0 30	11 00
		5 Hi-BRIGHT-1	BE EF	03	06 00	3B F2	01 00	B0 30	08 00
		5 CUSTOM	BE EF	03	06 00	FB FF	01 00	B0 30	18 00
		6 Hi-BRIGHT-2	BE EF	03	06 00	AB F3	01 00	B0 30	09 00
		6 CUSTOM	BE EF	03	06 00	6B FE	01 00	B0 30	19 00
	7 Hi-BRIGHT-3	BE EF	03	06 00	5B F3	01 00	B0 30	0A 00	
	7 CUSTOM	BE EF	03	06 00	9B FE	01 00	B0 30	1A 00	
		Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00
COLOR TEMP GAIN R	Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00	
	Increment	BE EF	03	06 00	52 F4	04 00	B1 30	00 00	
	Decrement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00	
COLOR TEMP GAIN R Reset	Execute	BE EF	03	06 00	10 C6	06 00	46 70	00 00	
COLOR TEMP GAIN G	Get	BE EF	03	06 00	70 F4	02 00	B2 30	00 00	
	Increment	BE EF	03	06 00	16 F4	04 00	B2 30	00 00	
	Decrement	BE EF	03	06 00	C7 F5	05 00	B2 30	00 00	
COLOR TEMP GAIN G Reset	Execute	BE EF	03	06 00	EC C7	06 00	47 70	00 00	
COLOR TEMP GAIN B	Get	BE EF	03	06 00	8C F5	02 00	B3 30	00 00	
	Increment	BE EF	03	06 00	EA F5	04 00	B3 30	00 00	
	Decrement	BE EF	03	06 00	3B F4	05 00	B3 30	00 00	
COLOR TEMP GAIN B Reset	Execute	BE EF	03	06 00	F8 C4	06 00	48 70	00 00	
COLOR TEMP OFFSET R	Get	BE EF	03	06 00	04 F5	02 00	B5 30	00 00	
	Increment	BE EF	03	06 00	62 F5	04 00	B5 30	00 00	
	Decrement	BE EF	03	06 00	B3 F4	05 00	B5 30	00 00	
COLOR TEMP OFFSET R Reset	Execute	BE EF	03	06 00	40 C5	06 00	4A 70	00 00	
COLOR TEMP OFFSET G	Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00	
	Increment	BE EF	03	06 00	26 F5	04 00	B6 30	00 00	
	Decrement	BE EF	03	06 00	F7 F4	05 00	B6 30	00 00	
COLOR TEMP OFFSET G Reset	Execute	BE EF	03	06 00	BC C4	06 00	4B 70	00 00	
COLOR TEMP OFFSET B	Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00	
	Increment	BE EF	03	06 00	DA F4	04 00	B7 30	00 00	
	Decrement	BE EF	03	06 00	0B F5	05 00	B7 30	00 00	
COLOR TEMP OFFSET B Reset	Execute	BE EF	03	06 00	C8 C5	06 00	4C 70	00 00	
COLOR	Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00	
	Increment	BE EF	03	06 00	D3 72	04 00	02 22	00 00	
	Decrement	BE EF	03	06 00	02 73	05 00	02 22	00 00	
COLOR Reset	Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00	

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

Names	Operation Type		Header				Command Data		
					CRC	Action	Type	Setting code	
TINT	Get		BE EF	03	06 00	49 73	02 00	03 22	00 00
	Increment		BE EF	03	06 00	2F 73	04 00	03 22	00 00
	Decrement		BE EF	03	06 00	FE 72	05 00	03 22	00 00
TINT Reset	Execute		BE EF	03	06 00	7C D1	06 00	0B 70	00 00
SHARPNESS	Get		BE EF	03	06 00	F1 72	02 00	01 22	00 00
	Increment		BE EF	03	06 00	97 72	04 00	01 22	00 00
	Decrement		BE EF	03	06 00	46 73	05 00	01 22	00 00
SHARPNESS Reset	Execute		BE EF	03	06 00	C4 D0	06 00	09 70	00 00
DYNAMIC BLACK	Set	OFF	BE EF	03	06 00	FE 5A	01 00	80 22	00 00
		ON	BE EF	03	06 00	6E 5B	01 00	80 22	01 00
	Get		BE EF	03	06 00	CD 5A	02 00	80 22	00 00
MY MEMORY Load	Set	1	BE EF	03	06 00	0E D7	01 00	14 20	00 00
		2	BE EF	03	06 00	9E D6	01 00	14 20	01 00
		3	BE EF	03	06 00	6E D6	01 00	14 20	02 00
		4	BE EF	03	06 00	FE D7	01 00	14 20	03 00
MY MEMORY Save	Set	1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00
		2	BE EF	03	06 00	62 D7	01 00	15 20	01 00
		3	BE EF	03	06 00	92 D7	01 00	15 20	02 00
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00
ASPECT	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
		NATIVE	BE EF	03	06 00	5E D7	01 00	08 20	08 00
		14:9	BE EF	03	06 00	CE D6	01 00	08 20	09 00
		16:10	BE EF	03	06 00	3E D6	01 00	08 20	0A 00
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
	ZOOM	BE EF	03	06 00	9E C4	01 00	08 20	30 00	
Get		BE EF	03	06 00	AD D0	02 00	08 20	00 00	
OVER SCAN	Get		BE EF	03	06 00	91 70	02 00	09 22	00 00
	Increment		BE EF	03	06 00	F7 70	04 00	09 22	00 00
	Decrement		BE EF	03	06 00	26 71	05 00	09 22	00 00
OVER SCAN Reset	Execute		BE EF	03	06 00	EC D9	06 00	27 70	00 00
V POSITION	Get		BE EF	03	06 00	0D 83	02 00	00 21	00 00
	Increment		BE EF	03	06 00	6B 83	04 00	00 21	00 00
	Decrement		BE EF	03	06 00	BA 82	05 00	00 21	00 00
V POSITION Reset	Execute		BE EF	03	06 00	E0 D2	06 00	02 70	00 00
H POSITION	Get		BE EF	03	06 00	F1 82	02 00	01 21	00 00
	Increment		BE EF	03	06 00	97 82	04 00	01 21	00 00
	Decrement		BE EF	03	06 00	46 83	05 00	01 21	00 00
H POSITION Reset	Execute		BE EF	03	06 00	1C D3	06 00	03 70	00 00
H PHASE	Get		BE EF	03	06 00	49 83	02 00	03 21	00 00
	Increment		BE EF	03	06 00	2F 83	04 00	03 21	00 00
	Decrement		BE EF	03	06 00	FE 82	05 00	03 21	00 00

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

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
H SIZE	Get		BE EF	03	06 00	B5 82	02 00	02 21	00 00
	Increment		BE EF	03	06 00	D3 82	04 00	02 21	00 00
	Decrement		BE EF	03	06 00	02 83	05 00	02 21	00 00
H SIZE Reset	Execute		BE EF	03	06 00	68 D2	06 00	04 70	00 00
AUTO ADJUST EXECUTE	Execute		BE EF	03	06 00	91 D0	06 00	0A 20	00 00
PROGRESSIVE	Set	OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
		FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
VIDEO NR	Get		BE EF	03	06 00	79 72	02 00	07 22	00 00
	Set	LOW	BE EF	03	06 00	26 72	01 00	06 22	01 00
		MID	BE EF	03	06 00	D6 72	01 00	06 22	02 00
		HIGH	BE EF	03	06 00	46 73	01 00	06 22	03 00
	Get		BE EF	03	06 00	85 73	02 00	06 22	00 00
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00
	Get		BE EF	03	06 00	3D 72	02 00	04 22	00 00
C-VIDEO FORMAT	Set	AUTO	BE EF	03	06 00	A2 70	01 00	11 22	0A 00
		NTSC	BE EF	03	06 00	C2 74	01 00	11 22	04 00
		PAL	BE EF	03	06 00	52 75	01 00	11 22	05 00
		SECAM	BE EF	03	06 00	52 70	01 00	11 22	09 00
		NTSC4.43	BE EF	03	06 00	62 77	01 00	11 22	02 00
		M-PAL	BE EF	03	06 00	C2 71	01 00	11 22	08 00
	N-PAL	BE EF	03	06 00	32 74	01 00	11 22	07 00	
Get		BE EF	03	06 00	31 76	02 00	11 22	00 00	
HDMI1 RANGE	Set	AUTO	BE EF	03	06 00	86 D8	01 00	22 20	00 00
		NORMAL	BE EF	03	06 00	16 D9	01 00	22 20	01 00
		ENHANCED	BE EF	03	06 00	E6 D9	01 00	22 20	02 00
	Get		BE EF	03	06 00	B5 D8	02 00	22 20	00 00
HDMI2 RANGE	Set	AUTO	BE EF	03	06 00	7A D9	01 00	23 20	00 00
		NORMAL	BE EF	03	06 00	EA D8	01 00	23 20	01 00
		ENHANCED	BE EF	03	06 00	1A D8	01 00	23 20	02 00
	Get		BE EF	03	06 00	49 D9	02 00	23 20	00 00
HDBaseT RANGE	Set	AUTO	BE EF	03	06 00	86 EB	01 00	D2 20	00 00
		NORMAL	BE EF	03	06 00	16 EA	01 00	D2 20	01 00
		ENHANCED	BE EF	03	06 00	E6 EA	01 00	D2 20	02 00
	Get		BE EF	03	06 00	B5 EB	02 00	D2 20	00 00
COMPUTER IN1	Set	AUTO	BE EF	03	06 00	CE D6	01 00	10 20	03 00
		SYNC ON G OFF	BE EF	03	06 00	5E D7	01 00	10 20	02 00
	Get		BE EF	03	06 00	0D D6	02 00	10 20	00 00
COMPUTER IN2	Set	AUTO	BE EF	03	06 00	32 D7	01 00	11 20	03 00
		SYNC ON G OFF	BE EF	03	06 00	A2 D6	01 00	11 20	02 00
		MONITOR OUT	BE EF	03	06 00	02 D0	01 00	11 20	08 00
	Get		BE EF	03	06 00	F1 D7	02 00	11 20	00 00

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

Names	Operation Type		Header				Command Data		
					CRC	Action	Type	Setting code	
FRAME LOCK – COMPUTER IN1	Set	OFF	BE EF	03	06 00	3B C2	01 00	50 30	00 00
		ON	BE EF	03	06 00	AB C3	01 00	50 30	01 00
	Get		BE EF	03	06 00	08 C2	02 00	50 30	00 00
FRAME LOCK – COMPUTER IN2	Set	OFF	BE EF	03	06 00	0B C3	01 00	54 30	00 00
		ON	BE EF	03	06 00	9B C2	01 00	54 30	01 00
	Get		BE EF	03	06 00	38 C3	02 00	54 30	00 00
FRAME LOCK - HDMI1	Set	OFF	BE EF	03	06 00	7F C2	01 00	53 30	00 00
		ON	BE EF	03	06 00	EF C3	01 00	53 30	01 00
	Get		BE EF	03	06 00	4C C2	02 00	53 30	00 00
FRAME LOCK - HDMI2	Set	OFF	BE EF	03	06 00	97 C0	01 00	5D 30	00 00
		ON	BE EF	03	06 00	07 C1	01 00	5D 30	01 00
	Get		BE EF	03	06 00	A4 C0	02 00	5D 30	00 00
FRAME LOCK - HDBaseT	Set	OFF	BE EF	03	06 00	C2 EB	01 00	D1 20	00 00
		ON	BE EF	03	06 00	52 EA	01 00	D1 20	01 00
	Get		BE EF	03	06 00	F1 EB	02 00	D1 20	00 00
PICTURE POSITION V	Set	TOP	BE EF	03	06 00	02 D0	01 00	09 20	02 00
		MIDDLE	BE EF	03	06 00	62 D1	01 00	09 20	00 00
		BOTTOM	BE EF	03	06 00	F2 D0	01 00	09 20	01 00
	Get		BE EF	03	06 00	51 D1	02 00	09 20	00 00
PICTURE POSITION H	Set	RIGHT	BE EF	03	06 00	46 D5	01 00	1E 20	01 00
		MIDDLE	BE EF	03	06 00	D6 D4	01 00	1E 20	00 00
		LEFT	BE EF	03	06 00	B6 D5	01 00	1E 20	02 00
	Get		BE EF	03	06 00	E5 D4	02 00	1E 20	00 00
GEOMETRIC MODE	Set	KEYSTONE	BE EF	03	06 00	6B 8C	01 00	30 31	01 00
		PERFECT FIT	BE EF	03	06 00	9B 8C	01 00	30 31	02 00
	Get		BE EF	03	06 00	C8 8D	02 00	30 31	00 00
KEYSTONE V	Get		BE EF	03	06 00	B9 D3	02 00	07 20	00 00
	Increment		BE EF	03	06 00	DF D3	04 00	07 20	00 00
	Decrement		BE EF	03	06 00	0E D2	05 00	07 20	00 00
KEYSTONE V Reset	Execute		BE EF	03	06 00	08 D0	06 00	0C 70	00 00
KEYSTONE H	Get		BE EF	03	06 00	E9 D0	02 00	0B 20	00 00
	Increment		BE EF	03	06 00	8F D0	04 00	0B 20	00 00
	Decrement		BE EF	03	06 00	5E D1	05 00	0B 20	00 00
KEYSTONE H Reset	Execute		BE EF	03	06 00	98 D8	06 00	20 70	00 00

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

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
PbyP/PinP	Set	OFF	BE EF	03	06 00	3E 26	01 00	10 23	00 00
		PbyP	BE EF	03	06 00	AE 27	01 00	10 23	01 00
		PinP	BE EF	03	06 00	5E 27	01 00	10 23	02 00
	Get		BE EF	03	06 00	0D 26	02 00	10 23	00 00
PbyP MAIN SIZE	Set	SMALL	BE EF	03	06 00	F2 07	01 00	11 23	7F 00
		MIDDLE	BE EF	03	06 00	02 46	01 00	11 23	80 00
		LARGE	BE EF	03	06 00	92 47	01 00	11 23	81 00
	Get		BE EF	03	06 00	F1 27	02 00	11 23	00 00
PbyP RIGHT SOURCE	Set	COMPUTER IN1	BE EF	03	06 00	86 27	01 00	12 23	00 00
		COMPUTER IN2	BE EF	03	06 00	46 25	01 00	12 23	04 00
		HDMI 1	BE EF	03	06 00	76 27	01 00	12 23	03 00
		HDMI 2	BE EF	03	06 00	16 23	01 00	12 23	0D 00
		HDBaseT	BE EF	03	06 00	D6 2B	01 00	12 23	11 00
	VIDEO	BE EF	03	06 00	16 26	01 00	12 23	01 00	
Get		BE EF	03	06 00	B5 27	02 00	12 23	00 00	
PbyP MAIN AREA	Set	LEFT	BE EF	03	06 00	7A 26	01 00	13 23	00 00
		RIGHT	BE EF	03	06 00	EA 27	01 00	13 23	01 00
	Get		BE EF	03	06 00	49 26	02 00	13 23	00 00
PbyP LEFT SOURCE	Set	COMPUTER IN1	BE EF	03	06 00	F2 26	01 00	15 23	00 00
		COMPUTER IN2	BE EF	03	06 00	32 24	01 00	15 23	04 00
		HDMI 1	BE EF	03	06 00	02 26	01 00	15 23	03 00
		HDMI 2	BE EF	03	06 00	62 22	01 00	15 23	0D 00
		HDBaseT	BE EF	03	06 00	A2 2A	01 00	15 23	11 00
	VIDEO	BE EF	03	06 00	62 27	01 00	15 23	01 00	
	Get		BE EF	03	06 00	C1 26	02 00	15 23	00 00

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

Names	Operation Type		Header				Command Data		
							Action	Type	Setting code
PinP POSITION	Set	TOP LEFT	BE EF	03	06 00	02 23	01 00	01 23	00 00
		TOP RIGHT	BE EF	03	06 00	92 22	01 00	01 23	01 00
		BOTTOM LEFT	BE EF	03	06 00	62 22	01 00	01 23	02 00
		BOTTOM RIGHT	BE EF	03	06 00	F2 23	01 00	01 23	03 00
		PbyP	BE EF	03	06 00	C2 2E	01 00	01 23	10 00
	Get		BE EF	03	06 00	31 23	02 00	01 23	00 00
PinP MAIN AREA	Set	PRIMARY	BE EF	03	06 00	32 22	01 00	05 23	00 00
		SECONDARY	BE EF	03	06 00	A2 23	01 00	05 23	01 00
	Get		BE EF	03	06 00	01 22	02 00	05 23	00 00
PinP PRIMARY SOURCE	Set	COMPUTER IN1	BE EF	03	06 00	CE 23	01 00	04 23	00 00
		COMPUTER IN2	BE EF	03	06 00	0E 21	01 00	04 23	04 00
		HDMI 1	BE EF	03	06 00	3E 23	01 00	04 23	03 00
		HDMI 2	BE EF	03	06 00	5E 27	01 00	04 23	0D 00
		HDBaseT	BE EF	03	06 00	9E 2F	01 00	04 23	11 00
		VIDEO	BE EF	03	06 00	5E 22	01 00	04 23	01 00
	Get		BE EF	03	06 00	FD 23	02 00	04 23	00 00
PinP SECONDARY SOURCE	Set	COMPUTER IN1	BE EF	03	06 00	46 23	01 00	02 23	00 00
		COMPUTER IN2	BE EF	03	06 00	86 21	01 00	02 23	04 00
		HDMI 1	BE EF	03	06 00	B6 23	01 00	02 23	03 00
		HDMI 2	BE EF	03	06 00	D6 27	01 00	02 23	0D 00
		HDBaseT	BE EF	03	06 00	16 2F	01 00	02 23	11 00
		VIDEO	BE EF	03	06 00	D6 22	01 00	02 23	01 00
	Get		BE EF	03	06 00	75 23	02 00	02 23	00 00
PbyP/PinP SWAP	Execute		BE EF	03	06 00	01 27	06 00	16 23	00 00
PbyP / PinP FRAME LOCK	Set	LEFT / PRIMARY	BE EF	03	06 00	4A 27	01 00	17 23	00 00
		RIGHT / SECONDARY	BE EF	03	06 00	DA 26	01 00	17 23	01 00
	Get		BE EF	03	06 00	79 27	02 00	17 23	00 00

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

Names	Operation Type	Header				Command Data		
						CRC	Action	Type
PERFECT FIT Left Top -H	Get	BE EF	03	06 00	31 89	02 00	21 21	00 00
	Increment	BE EF	03	06 00	57 89	04 00	21 21	00 00
	Decrement	BE EF	03	06 00	86 88	05 00	21 21	00 00
PERFECT FIT Left Top -V	Get	BE EF	03	06 00	75 89	02 00	22 21	00 00
	Increment	BE EF	03	06 00	13 89	04 00	22 21	00 00
	Decrement	BE EF	03	06 00	C2 88	05 00	22 21	00 00
PERFECT FIT Right Top -H	Get	BE EF	03	06 00	89 88	02 00	23 21	00 00
	Increment	BE EF	03	06 00	EF 88	04 00	23 21	00 00
	Decrement	BE EF	03	06 00	3E 89	05 00	23 21	00 00
PERFECT FIT Right Top -V	Get	BE EF	03	06 00	FD 89	02 00	24 21	00 00
	Increment	BE EF	03	06 00	9B 89	04 00	24 21	00 00
	Decrement	BE EF	03	06 00	4A 88	05 00	24 21	00 00
PERFECT FIT Left Bottom -H	Get	BE EF	03	06 00	01 88	02 00	25 21	00 00
	Increment	BE EF	03	06 00	67 88	04 00	25 21	00 00
	Decrement	BE EF	03	06 00	B6 89	05 00	25 21	00 00
PERFECT FIT Left Bottom -V	Get	BE EF	03	06 00	45 88	02 00	26 21	00 00
	Increment	BE EF	03	06 00	23 88	04 00	26 21	00 00
	Decrement	BE EF	03	06 00	F2 89	05 00	26 21	00 00
PERFECT FIT Right Bottom -H	Get	BE EF	03	06 00	B9 89	02 00	27 21	00 00
	Increment	BE EF	03	06 00	DF 89	04 00	27 21	00 00
	Decrement	BE EF	03	06 00	0E 88	05 00	27 21	00 00
PERFECT FIT Right Bottom -V	Get	BE EF	03	06 00	AD 8A	02 00	28 21	00 00
	Increment	BE EF	03	06 00	CB 8A	04 00	28 21	00 00
	Decrement	BE EF	03	06 00	1A 8B	05 00	28 21	00 00
PERFECT FIT All Corners Reset	Execute	BE EF	03	06 00	D5 8A	06 00	29 21	00 00
PERFECT FIT Left Side Distortion	Get	BE EF	03	06 00	31 97	02 00	41 21	00 00
	Increment	BE EF	03	06 00	57 97	04 00	41 21	00 00
	Decrement	BE EF	03	06 00	86 96	05 00	41 21	00 00
PERFECT FIT Right Side Distortion	Get	BE EF	03	06 00	75 97	02 00	42 21	00 00
	Increment	BE EF	03	06 00	13 97	04 00	42 21	00 00
	Decrement	BE EF	03	06 00	C2 96	05 00	42 21	00 00
PERFECT FIT Top Side Distortion	Get	BE EF	03	06 00	FD 97	02 00	44 21	00 00
	Increment	BE EF	03	06 00	9B 97	04 00	44 21	00 00
	Decrement	BE EF	03	06 00	4A 96	05 00	44 21	00 00
PERFECT FIT Bottom Side Distortion	Get	BE EF	03	06 00	01 96	02 00	45 21	00 00
	Increment	BE EF	03	06 00	67 96	04 00	45 21	00 00
	Decrement	BE EF	03	06 00	B6 97	05 00	45 21	00 00
PERFECT FIT All Sides Reset	Execute	BE EF	03	06 00	3D 96	06 00	47 21	00 00
PERFECT FIT Memory Save-1	Execute	BE EF	03	06 00	29 95	06 00	48 21	00 00
PERFECT FIT Memory Save-2	Execute	BE EF	03	06 00	D5 94	06 00	49 21	00 00
PERFECT FIT Memory Save-3	Execute	BE EF	03	06 00	91 94	06 00	4A 21	00 00

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

Names	Operation Type		Header				Command Data		
					CRC	Action	Type	Setting code	
PERFECT FIT Memory Load-1	Execute		BE EF	03	06 00	6D 95	06 00	4B 21	00 00
PERFECT FIT Memory Load-2	Execute		BE EF	03	06 00	19 94	06 00	4C 21	00 00
PERFECT FIT Memory Load-3	Execute		BE EF	03	06 00	E5 95	06 00	4D 21	00 00
LIGHT OUTPUT	Set	WHISPER	BE EF	03	06 00	AB 22	01 00	00 33	01 00
		NORMAL	BE EF	03	06 00	3B 37	01 00	00 33	30 00
		LONG LIFE 1	BE EF	03	06 00	6B 20	01 00	00 33	05 00
		LONG LIFE 2	BE EF	03	06 00	9B 20	01 00	00 33	06 00
		Get	BE EF	03	06 00	08 23	02 00	00 33	00 00
LIGHT OUTPUT NORMAL POWER	Get		BE EF	03	06 00	C4 23	02 00	05 33	00 00
	Increment		BE EF	03	06 00	A2 23	04 00	05 33	00 00
	Decrement		BE EF	03	06 00	73 22	05 00	05 33	00 00
INSTALLATION	Set	FRONT / DESKTOP	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		REAR / DESKTOP	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		REAR / CEILING	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		FRONT / CEILING	BE EF	03	06 00	37 D2	01 00	01 30	03 00
		Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00
STANDBY MODE	Set	QUICK START	BE EF	03	06 00	16 DF	01 00	01 60	10 00
		NORMAL	BE EF	03	06 00	D6 D2	01 00	01 60	00 00
		NETWORK-WOL	BE EF	03	06 00	B6 D3	01 00	01 60	02 00
		SAVING	BE EF	03	06 00	46 D3	01 00	01 60	01 00
		Get	BE EF	03	06 00	E5 D2	02 00	01 60	00 00
VOLUME - COMPUTER IN1	Get		BE EF	03	06 00	CD CC	02 00	60 20	00 00
	Increment		BE EF	03	06 00	AB CC	04 00	60 20	00 00
	Decrement		BE EF	03	06 00	7A CD	05 00	60 20	00 00
VOLUME - COMPUTER IN2	Get		BE EF	03	06 00	FD CD	02 00	64 20	00 00
	Increment		BE EF	03	06 00	9B CD	04 00	64 20	00 00
	Decrement		BE EF	03	06 00	4A CC	05 00	64 20	00 00
VOLUME - VIDEO	Get		BE EF	03	06 00	31 CD	02 00	61 20	00 00
	Increment		BE EF	03	06 00	57 CD	04 00	61 20	00 00
	Decrement		BE EF	03	06 00	86 CC	05 00	61 20	00 00
VOLUME - HDMI1	Get		BE EF	03	06 00	89 CC	02 00	63 20	00 00
	Increment		BE EF	03	06 00	EF CC	04 00	63 20	00 00
	Decrement		BE EF	03	06 00	3E CD	05 00	63 20	00 00
VOLUME - HDMI2	Get		BE EF	03	06 00	61 CE	02 00	6D 20	00 00
	Increment		BE EF	03	06 00	07 CE	04 00	6D 20	00 00
	Decrement		BE EF	03	06 00	D6 CF	05 00	6D 20	00 00
VOLUME - HDBaseT	Get		BE EF	03	06 00	C1 EA	02 00	D5 20	00 00
	Increment		BE EF	03	06 00	A7 EA	04 00	D5 20	00 00
	Decrement		BE EF	03	06 00	76 EB	05 00	D5 20	00 00
VOLUME - LAN	Get		BE EF	03	06 00	E9 CE	02 00	6B 20	00 00
	Increment		BE EF	03	06 00	8F CE	04 00	6B 20	00 00
	Decrement		BE EF	03	06 00	5E CF	05 00	6B 20	00 00

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

Names	Operation Type		Header				Command Data		
						CRC	Action	Type	Setting code
VOLUME - STANDBY	Get		BE EF	03	06 00	D9 CF	02 00	6F 20	00 00
	Increment		BE EF	03	06 00	BF CF	04 00	6F 20	00 00
	Decrement		BE EF	03	06 00	6E CE	05 00	6F 20	00 00
VOLUME - ALL	Get		BE EF	03	06 00	CD C3	02 00	50 20	00 00
	Increment		BE EF	03	06 00	AB C3	04 00	50 20	00 00
	Decrement		BE EF	03	06 00	7A C2	05 00	50 20	00 00
AV MUTE	Set	OFF	BE EF	03	06 00	FE F0	01 00	A0 20	00 00
		ON	BE EF	03	06 00	6E F1	01 00	A0 20	01 00
	Get		BE EF	03	06 00	CD F0	02 00	A0 20	00 00
MUTE	Set	OFF	BE EF	03	06 00	46 D3	01 00	02 20	00 00
		ON	BE EF	03	06 00	D6 D2	01 00	02 20	01 00
	Get		BE EF	03	06 00	75 D3	02 00	02 20	00 00
SPEAKER	Set	OFF	BE EF	03	06 00	6E D5	01 00	1C 20	00 00
		ON	BE EF	03	06 00	FE D4	01 00	1C 20	01 00
	Get		BE EF	03	06 00	5D D5	02 00	1C 20	00 00
AUDIO SOURCE - COMPUTER IN1	Set	OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00
		AUDIO IN1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
		AUDIO IN2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
	AUDIO IN3	BE EF	03	06 00	0E DD	01 00	30 20	03 00	
Get		BE EF	03	06 00	CD DD	02 00	30 20	00 00	
AUDIO SOURCE - COMPUTER IN2	Set	OFF	BE EF	03	06 00	CE DC	01 00	34 20	00 00
		AUDIO IN1	BE EF	03	06 00	5E DD	01 00	34 20	01 00
		AUDIO IN2	BE EF	03	06 00	AE DD	01 00	34 20	02 00
	AUDIO IN3	BE EF	03	06 00	3E DC	01 00	34 20	03 00	
Get		BE EF	03	06 00	FD DC	02 00	34 20	00 00	
AUDIO SOURCE - LAN	Set	OFF	BE EF	03	06 00	DA DF	01 00	3B 20	00 00
		AUDIO IN1	BE EF	03	06 00	4A DE	01 00	3B 20	01 00
		AUDIO IN2	BE EF	03	06 00	BA DE	01 00	3B 20	02 00
		AUDIO IN3	BE EF	03	06 00	2A DF	01 00	3B 20	03 00
	AUDIO LAN	BE EF	03	06 00	8A D3	01 00	3B 20	11 00	
Get		BE EF	03	06 00	E9 DF	02 00	3B 20	00 00	

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

Names	Operation Type		Header				Command Data		
			CRC	Action	Type	Setting code			
AUDIO SOURCE - HDMI1	Set	OFF	BE EF	03	06 00	BA DD	01 00	33 20	00 00
		AUDIO IN1	BE EF	03	06 00	2A DC	01 00	33 20	01 00
		AUDIO IN2	BE EF	03	06 00	DA DC	01 00	33 20	02 00
		AUDIO IN3	BE EF	03	06 00	4A DD	01 00	33 20	03 00
		HDMI1	BE EF	03	06 00	7A C4	01 00	33 20	20 00
		Get	BE EF	03	06 00	89 DD	02 00	33 20	00 00
AUDIO SOURCE - HDMI2	Set	OFF	BE EF	03	06 00	52 DF	01 00	3D 20	00 00
		AUDIO IN1	BE EF	03	06 00	C2 DE	01 00	3D 20	01 00
		AUDIO IN2	BE EF	03	06 00	32 DE	01 00	3D 20	02 00
		AUDIO IN3	BE EF	03	06 00	A2 DF	01 00	3D 20	03 00
		HDMI2	BE EF	03	06 00	02 C7	01 00	3D 20	21 00
		Get	BE EF	03	06 00	61 DF	02 00	3D 20	00 00
AUDIO SOURCE - HDBaseT	Set	OFF	BE EF	03	06 00	0E EB	01 00	D4 20	00 00
		AUDIO IN1	BE EF	03	06 00	9E EA	01 00	D4 20	01 00
		AUDIO IN2	BE EF	03	06 00	6E EA	01 00	D4 20	02 00
		AUDIO IN3	BE EF	03	06 00	FE EB	01 00	D4 20	03 00
		HDBaseT	BE EF	03	06 00	0E F0	01 00	D4 20	24 00
		Get	BE EF	03	06 00	3D EB	02 00	D4 20	00 00
AUDIO SOURCE - VIDEO	Set	OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
		AUDIO IN1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
		AUDIO IN2	BE EF	03	06 00	62 DD	01 00	31 20	02 00
		AUDIO IN3	BE EF	03	06 00	F2 DC	01 00	31 20	03 00
		Get	BE EF	03	06 00	31 DC	02 00	31 20	00 00

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

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting code
LANGUAGE		ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00
		ESPAÑOL	BE EF	03	06 00	07 D3	01 00	05 30	03 00
		ITALIANO	BE EF	03	06 00	37 D1	01 00	05 30	04 00
		NORSK	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
		NEDERLANDS	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		简体中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00
		繁體中文	BE EF	03	06 00	37 DE	01 00	05 30	10 00
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00
		POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00
		TÜRKÇE	BE EF	03	06 00	07 D6	01 00	05 30	0F 00
		DANSK	BE EF	03	06 00	A7 DF	01 00	05 30	11 00
		ČESKY	BE EF	03	06 00	57 DF	01 00	05 30	12 00
		MAGYAR	BE EF	03	06 00	C7 DE	01 00	05 30	13 00
		ROMÂNĂ	BE EF	03	06 00	F7 DC	01 00	05 30	14 00
		SLOVENSKI	BE EF	03	06 00	67 DD	01 00	05 30	15 00
		HRVATSKI	BE EF	03	06 00	97 DD	01 00	05 30	16 00
		ΕΛΛΗΝΙΚΑ	BE EF	03	06 00	07 DC	01 00	05 30	17 00
		LIETUVIŲ	BE EF	03	06 00	F7 D9	01 00	05 30	18 00
		EESTI	BE EF	03	06 00	67 D8	01 00	05 30	19 00
		LATVIEŠU	BE EF	03	06 00	97 D8	01 00	05 30	1A 00
		ไทย	BE EF	03	06 00	07 D9	01 00	05 30	1B 00
		دېپرغلا دغللا	BE EF	03	06 00	37 DB	01 00	05 30	1C 00
		اکسراف	BE EF	03	06 00	A7 DA	01 00	05 30	1D 00
		PORTUGUÊS BRA	BE EF	03	06 00	57 DA	01 00	05 30	1E 00
		BAHASA IND	BE EF	03	06 00	C7 DB	01 00	05 30	1F 00
		TIENG VIET	BE EF	03	06 00	37 CA	01 00	05 30	20 00
	עברית	BE EF	03	06 00	A7 CB	01 00	05 30	21 00	
	Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00	
NOTE) Not all of the languages in this table are supported.									
MENU POSITION H	Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00	
	Increment	BE EF	03	06 00	62 D7	04 00	15 30	00 00	
	Decrement	BE EF	03	06 00	B3 D6	05 00	15 30	00 00	
MENU POSITION H Reset	Execute	BE EF	03	06 00	DC C6	06 00	43 70	00 00	
MENU POSITION V	Get	BE EF	03	06 00	40 D7	02 00	16 30	00 00	
	Increment	BE EF	03	06 00	26 D7	04 00	16 30	00 00	
	Decrement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00	
MENU POSITION V Reset	Execute	BE EF	03	06 00	A8 C7	06 00	44 70	00 00	

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

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

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

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
SEARCH SKIP COMPUTER IN1	Set	NORMAL	BE EF	03	06 00	FE 78	01 00	20 22	00 00
		SKIP	BE EF	03	06 00	6E 79	01 00	20 22	01 00
	Get	BE EF	03	06 00	CD 78	02 00	20 22	00 00	
SEARCH SKIP COMPUTER IN2	Set	NORMAL	BE EF	03	06 00	CE 79	01 00	24 22	00 00
		SKIP	BE EF	03	06 00	5E 78	01 00	24 22	01 00
	Get	BE EF	03	06 00	FD 79	02 00	24 22	00 00	
SEARCH SKIP VIDEO	Set	NORMAL	BE EF	03	06 00	02 79	01 00	21 22	00 00
		SKIP	BE EF	03	06 00	92 78	01 00	21 22	01 00
	Get	BE EF	03	06 00	31 79	02 00	21 22	00 00	
SEARCH SKIP HDMI1	Set	NORMAL	BE EF	03	06 00	BA 78	01 00	23 22	00 00
		SKIP	BE EF	03	06 00	2A 79	01 00	23 22	01 00
	Get	BE EF	03	06 00	89 78	02 00	23 22	00 00	
SEARCH SKIP HDMI2	Set	NORMAL	BE EF	03	06 00	52 7A	01 00	2D 22	00 00
		SKIP	BE EF	03	06 00	C2 7B	01 00	2D 22	01 00
	Get	BE EF	03	06 00	61 7A	02 00	2D 22	00 00	
SEARCH SKIP LAN	Set	NORMAL	BE EF	03	06 00	DA 7A	01 00	2B 22	00 00
		SKIP	BE EF	03	06 00	4A 7B	01 00	2B 22	01 00
	Get	BE EF	03	06 00	E9 7A	02 00	2B 22	00 00	
SEARCH SKIP HDBaseT	Set	NORMAL	BE EF	03	06 00	B6 EA	01 00	D6 20	00 00
		SKIP	BE EF	03	06 00	26 EB	01 00	D6 20	01 00
	Get	BE EF	03	06 00	85 EA	02 00	D6 20	00 00	
AUTO SEARCH	Set	OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
		ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00
	Get	BE EF	03	06 00	85 D6	02 00	16 20	00 00	
DIRECT POWER ON	Set	OFF	BE EF	03	06 00	3B 89	01 00	20 31	00 00
		ON	BE EF	03	06 00	AB 88	01 00	20 31	01 00
	Get	BE EF	03	06 00	08 89	02 00	20 31	00 00	
AUTO POWER ON - COMPUTER IN1	Get	BE EF	03	06 00	08 A4	02 00	B0 31	00 00	
AUTO POWER ON - VIDEO	Get	BE EF	03	06 00	F4 A5	02 00	B1 31	00 00	
AUTO POWER ON - HDMI2	Get	BE EF	03	06 00	A4 A6	02 00	BD 31	00 00	
AUTO POWER OFF	Get	BE EF	03	06 00	08 86	02 00	10 31	00 00	
	Increment	BE EF	03	06 00	6E 86	04 00	10 31	00 00	
	Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00	
LIGHT SOURCE TIME Low	Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00	
LIGHT SOURCE TIME High	Get	BE EF	03	06 00	2A FD	02 00	9E 10	00 00	
FILTER TIME Low	Get	BE EF	03	06 00	C2 F0	02 00	A0 10	00 00	
FILTER TIME High	Get	BE EF	03	06 00	D6 FC	02 00	9F 10	00 00	
FILTER TIME Reset	Execute	BE EF	03	06 00	98 C6	06 00	40 70	00 00	

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

Names	Operation Type	Header					Command Data		
						CRC	Action	Type	Setting code
MY BUTTON-1	Set	COMPUTER IN1	BE EF	03	06 00	3A 33	01 00	00 36	00 00
		COMPUTER IN2	BE EF	03	06 00	FA 31	01 00	00 36	04 00
		LAN	BE EF	03	06 00	0A 34	01 00	00 36	0B 00
		HDMI 1	BE EF	03	06 00	CA 33	01 00	00 36	03 00
		HDMI 2	BE EF	03	06 00	AA 37	01 00	00 36	0D 00
		HDBaseT	BE EF	03	06 00	AA 1A	01 00	00 36	61 00
		VIDEO	BE EF	03	06 00	AA 32	01 00	00 36	01 00
		MY IMAGE	BE EF	03	06 00	5A 3D	01 00	00 36	16 00
		MESSENGER	BE EF	03	06 00	AA 29	01 00	00 36	25 00
		INFORMATION	BE EF	03	06 00	FA 3E	01 00	00 36	10 00
		MY MEMORY	BE EF	03	06 00	9A 3F	01 00	00 36	12 00
		AV MUTE	BE EF	03	06 00	AA 38	01 00	00 36	19 00
		PICTURE MODE	BE EF	03	06 00	0A 3E	01 00	00 36	13 00
		FILTER RESET	BE EF	03	06 00	3A 3C	01 00	00 36	14 00
		RESOLUTION	BE EF	03	06 00	9A 3A	01 00	00 36	1E 00
		TEMPLATE	BE EF	03	06 00	CA 39	01 00	00 36	1B 00
		LIGHT OUTPUT	BE EF	03	06 00	0A 25	01 00	00 36	37 00
		ACCENTUALIZER	BE EF	03	06 00	9A 21	01 00	00 36	3A 00
		HDCR	BE EF	03	06 00	5A 23	01 00	00 36	3E 00
		PbyP SWAP	BE EF	03	06 00	5A 38	01 00	00 36	1A 00
MY BUTTON-2	Set	PinP POSITION	BE EF	03	06 00	3A 22	01 00	00 36	3C 00
		MY BUTTON	BE EF	03	06 00	CA 72	01 00	00 36	FF 00
		Get	BE EF	03	06 00	09 33	02 00	00 36	00 00
	Set	COMPUTER IN1	BE EF	03	06 00	C6 32	01 00	01 36	00 00
		COMPUTER IN2	BE EF	03	06 00	06 30	01 00	01 36	04 00
		LAN	BE EF	03	06 00	F6 35	01 00	01 36	0B 00
		HDMI 1	BE EF	03	06 00	36 32	01 00	01 36	03 00
		HDMI 2	BE EF	03	06 00	56 36	01 00	01 36	0D 00
		HDBaseT	BE EF	03	06 00	56 1B	01 00	01 36	61 00
		VIDEO	BE EF	03	06 00	56 33	01 00	01 36	01 00
		MY IMAGE	BE EF	03	06 00	A6 3C	01 00	01 36	16 00
		MESSENGER	BE EF	03	06 00	56 28	01 00	01 36	25 00
		INFORMATION	BE EF	03	06 00	06 3F	01 00	01 36	10 00
		MY MEMORY	BE EF	03	06 00	66 3E	01 00	01 36	12 00
		AV MUTE	BE EF	03	06 00	56 39	01 00	01 36	19 00
		PICTURE MODE	BE EF	03	06 00	F6 3F	01 00	01 36	13 00
		FILTER RESET	BE EF	03	06 00	C6 3D	01 00	01 36	14 00
		RESOLUTION	BE EF	03	06 00	66 3B	01 00	01 36	1E 00
		TEMPLATE	BE EF	03	06 00	36 38	01 00	01 36	1B 00
		LIGHT OUTPUT	BE EF	03	06 00	F6 24	01 00	01 36	37 00
		ACCENTUALIZER	BE EF	03	06 00	66 20	01 00	01 36	3A 00
		HDCR	BE EF	03	06 00	A6 22	01 00	01 36	3E 00
		PbyP SWAP	BE EF	03	06 00	A6 39	01 00	01 36	1A 00
		PinP POSITION	BE EF	03	06 00	C6 23	01 00	01 36	3C 00
		MY BUTTON	BE EF	03	06 00	36 73	01 00	01 36	FF 00
		Get	BE EF	03	06 00	F5 32	02 00	01 36	00 00

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

Names	Operation Type		Header				Command Data		
							CRC	Action	Type
FLICKER REDUCTION	Set	OFF	BE EF	03	06 00	B9 D6	01 00	16 10	00 00
		ON	BE EF	03	06 00	29 D7	01 00	16 10	01 00
	Get		BE EF	03	06 00	8A D6	02 00	16 10	00 00
REMOTE FREQ. NORMAL	Set	OFF	BE EF	03	06 00	FF 3D	01 00	30 26	00 00
		ON	BE EF	03	06 00	6F 3C	01 00	30 26	01 00
	Get		BE EF	03	06 00	CC 3D	02 00	30 26	00 00
REMOTE FREQ. HIGH	Set	OFF	BE EF	03	06 00	03 3C	01 00	31 26	00 00
		ON	BE EF	03	06 00	93 3D	01 00	31 26	01 00
	Get		BE EF	03	06 00	30 3C	02 00	31 26	00 00
REMOTE HDBaseT	Set	OFF	BE EF	03	06 00	BB 32	01 00	03 26	00 00
		ON	BE EF	03	06 00	2B 33	01 00	03 26	01 00
	Get		BE EF	03	06 00	88 32	02 00	03 26	00 00
MY IMAGE	Set	OFF	BE EF	03	06 00	3A C3	01 00	00 35	00 00
		IMAGE-1	BE EF	03	06 00	AA C2	01 00	00 35	01 00
		IMAGE-2	BE EF	03	06 00	5A C2	01 00	00 35	02 00
		IMAGE-3	BE EF	03	06 00	CA C3	01 00	00 35	03 00
		IMAGE-4	BE EF	03	06 00	FA C1	01 00	00 35	04 00
	Get		BE EF	03	06 00	09 C3	02 00	00 35	00 00
MY IMAGE IMAGE-1 Delete	Execute		BE EF	03	06 00	71 C3	06 00	01 35	00 00
MY IMAGE IMAGE-2 Delete	Execute		BE EF	03	06 00	35 C3	06 00	02 35	00 00
MY IMAGE IMAGE-3 Delete	Execute		BE EF	03	06 00	C9 C2	06 00	03 35	00 00
MY IMAGE IMAGE-4 Delete	Execute		BE EF	03	06 00	BD C3	06 00	04 35	00 00
LAN SOUND ENABLE	Set	Disable	BE EF	03	06 00	BA F0	01 00	A3 20	00 00
		Enable	BE EF	03	06 00	2A F1	01 00	A3 20	01 00
	Get		BE EF	03	06 00	89 F0	02 00	A3 20	00 00
AMX for LAN	Set	OFF	BE EF	03	06 00	33 AC	01 00	30 1B	00 00
		ON	BE EF	03	06 00	A3 AD	01 00	30 1B	01 00
	Get		BE EF	03	06 00	00 AC	02 00	30 1B	00 00
CRESTRON	Set	OFF	BE EF	03	06 00	33 B2	01 00	50 1B	00 00
		ON	BE EF	03	06 00	A3 B3	01 00	50 1B	01 00
	Get		BE EF	03	06 00	00 B2	02 00	50 1B	00 00
EXTRON for HDBaseT	Set	OFF	BE EF	03	06 00	33 BD	01 00	60 1B	00 00
		ON	BE EF	03	06 00	A3 BC	01 00	60 1B	01 00
	Get		BE EF	03	06 00	00 BD	02 00	60 1B	00 00
STANDBY OUTPUT - AUDIO OUT	Set	OFF	BE EF	03	06 00	EA DE	01 00	3F 20	00 00
		AUDIO IN1	BE EF	03	06 00	7A DF	01 00	3F 20	01 00
		AUDIO IN2	BE EF	03	06 00	8A DF	01 00	3F 20	02 00
		AUDIO IN3	BE EF	03	06 00	1A DE	01 00	3F 20	03 00
		HDMI 1	BE EF	03	06 00	2A C7	01 00	3F 20	20 00
		HDMI 2	BE EF	03	06 00	BA C6	01 00	3F 20	21 00
		HDBaseT	BE EF	03	06 00	EA C5	01 00	3F 20	24 00
	Get		BE EF	03	06 00	D9 DE	02 00	3F 20	00 00

## PJLink command

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

(continued on next page)

Commands	Control Description	Parameter or Response
ERST ?	Error Status inquiry	1st byte: Refers to Fan error; one of 0 to 2
		2nd byte: Refers to Light Source error; one of 0 to 2
		3rd byte: Refers to Temperature error; one of 0 to 2
		4th byte: Refers to Cover error; one of 0 to 2
		5th byte: Refers to Filter error; one of 0 to 2
		6th byte: Refers to Other error; one of 0 to 2
		The meaning of 0 to 2 is as given below 0 = Error is not detected; 1 = Warning; 2 = Error
LAMP ?	Light Source Status inquiry	1st number (digits 1 to 5): Light Source Time
		2nd number : 0 = Light Source off, 1 = Light Source on
INST ?	Input Source List inquiry	11 12 23 31 33 36 51
NAME ?	Projector Name inquiry	Responds with the name set in "PROJECTOR NAME" of "NETWORK"
INF1 ?	Manufacturer's Name inquiry	MAXELL
INF2 ?	Model Name inquiry	MP-WU5603
		MP-WU5503
		MP-WX5603
		MP-WX5503
INFO ?	Other Information inquiry	Returns an empty string.
CLSS ?	Class Information inquiry	2

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Commands	Control Description	Parameter or Response
SNUM ?	Serial number query	Responds with the serial number information
SVER ?	Software version query	Returns an empty string.
INNM ?	Input terminal name query	Responds with the Input terminal name
IRES ?	Input resolution query	Responds with the resolution information of input signal
RRES ?	Recommended resolution query	Responds with the recommended resolution information of input signal
FILT ?	Filter usage time query	Responds with the Filter Time (digits 1 to 5)
RLMP ?	Lamp replacement model number query	Returns an empty string.
RFIL ?	Filter replacement model number query	Returns an empty string.
SVOL	Speaker volume adjustment instruction	0 = decrease volume 1 = increase volume
MVOL	Microphone volume adjustment instruction	Not available
FREZ	Freeze instruction	0 = Freeze off 1 = Freeze on
FREZ ?	Freeze status query	0 = Freeze off 1 = Freeze on

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

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

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

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