

Projector

CP-X4022WN/CP-X5022WN/ CP-WX4022WN

User's Manual (detailed) Operating Guide – Technical

Example of computer signal

Resolution (H x V)	H. frequency (kHz)	V. frequency (Hz)	Rating	Signal mode
720 x 400	37.9	85.0	VESA	TEXT
640 x 480	31.5	59.9	VESA	VGA (60Hz)
640 x 480	37.9	72.8	VESA	VGA (72Hz)
640 x 480	37.5	75.0	VESA	VGA (75Hz)
640 x 480	43.3	85.0	VESA	VGA (85Hz)
800 x 600	35.2	56.3	VESA	SVGA (56Hz)
800 x 600	37.9	60.3	VESA	SVGA (60Hz)
800 x 600	48.1	72.2	VESA	SVGA (72Hz)
800 x 600	46.9	75.0	VESA	SVGA (75Hz)
800 x 600	53.7	85.1	VESA	SVGA (85Hz)
832 x 624	49.7	74.5		Mac 16" mode
1024 x 768	48.4	60.0	VESA	XGA (60Hz)
1024 x 768	56.5	70.1	VESA	XGA (70Hz)
1024 x 768	60.0	75.0	VESA	XGA (75Hz)
1024 x 768	68.7	85.0	VESA	XGA (85Hz)
1152 x 864	67.5	75.0	VESA	1152 x 864 (75Hz)
1280 x 768	47.7	60.0	VESA	WXGA (60Hz)
1280 x 800	49.7	60.0	VESA	1280 x 800 (60Hz)
1280 x 960	60.0	60.0	VESA	1280 x 960 (60Hz)
1280 x 1024	64.0	60.0	VESA	SXGA (60Hz)
1280 x 1024	80.0	75.0	VESA	SXGA (75Hz)
*1) 1280 x 1024	91.1	85.0	VESA	SXGA (85Hz)
*2) 1400 x 1050	65.2	60.0	VESA	SXGA+ (60Hz)
1440 x 900	55.9	59.9	VESA	WXGA+ (60Hz)
*3) 1680 x 1050	65.3	60.0	VESA	WSXGA+ (60Hz)
*1) 1600 x 1200	75.0	60.0	VESA	UXGA (60Hz)

*1) Supported except for **HDMI** input.

*2) Only for CP-X4022WN and CP-X5022WN.

*3) Only for CP-WX4022WN.

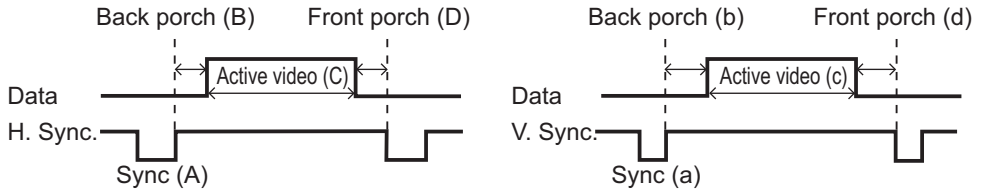
NOTE • Be sure to check jack type, signal level, timing and resolution before connecting this projector to a PC.

- 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.
- Although the projector can display signals with resolution up to UXGA (1600x1200), 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.

Initial set signals

Initial set signals

The following signals are used for the initial settings. The signal timing of some computer models may be different. In such case, adjust the items V POSITION and H POSITION in the IMAGE menu.

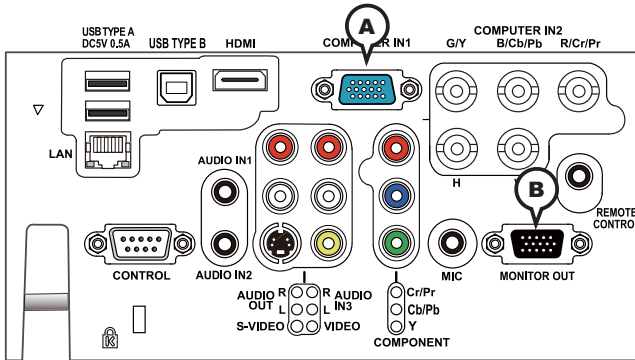


Resolution (H x V)	Horizontal signal timing (μs)				Vertical signal timing (lines)				Signal mode
	(A)	(B)	(C)	(D)	(a)	(b)	(c)	(d)	
720 x 400	2.0	3.0	20.3	1.0	3	42	400	1	TEXT
640 x 480	3.8	1.9	25.4	0.6	2	33	480	10	VGA (60Hz)
640 x 480	1.3	4.1	20.3	0.8	3	28	480	9	VGA (72Hz)
640 x 480	2.0	3.8	20.3	0.5	3	16	480	1	VGA (75Hz)
640 x 480	1.6	2.2	17.8	1.6	3	25	480	1	VGA (85Hz)
800 x 600	2.0	3.6	22.2	0.7	2	22	600	1	SVGA (56Hz)
800 x 600	3.2	2.2	20.0	1.0	4	23	600	1	SVGA (60Hz)
800 x 600	2.4	1.3	16.0	1.1	6	23	600	37	SVGA (72Hz)
800 x 600	1.6	3.2	16.2	0.3	3	21	600	1	SVGA (75Hz)
800 x 600	1.1	2.7	14.2	0.6	3	27	600	1	SVGA (85Hz)
832 x 624	1.1	3.9	14.5	0.6	3	39	624	1	Mac 16" mode
1024 x 768	2.1	2.5	15.8	0.4	6	29	768	3	XGA (60Hz)
1024 x 768	1.8	1.9	13.7	0.3	6	29	768	3	XGA (70Hz)
1024 x 768	1.2	2.2	13.0	0.2	3	28	768	1	XGA (75Hz)
1024 x 768	1.0	2.2	10.8	0.5	3	36	768	1	XGA (85Hz)
1152 x 864	1.2	2.4	10.7	0.6	3	32	864	1	1152 x 864 (75Hz)
1280 x 768	1.7	2.5	16.0	0.8	3	23	768	1	WXGA (60Hz)
1280 x 800	1.6	2.4	15.3	0.8	3	24	800	1	WXGA (60Hz)
1280 x 960	1.0	2.9	11.9	0.9	3	36	960	1	WXGA (60Hz)
1280 x 1024	1.0	2.3	11.9	0.4	3	38	1024	1	SXGA (60Hz)
1280 x 1024	1.1	1.8	9.5	0.1	3	38	1024	1	SXGA (75Hz)
1280 x 1024	1.0	1.4	8.1	0.4	3	44	1024	1	SXGA (85Hz)
1400 x 1050	1.2	2.0	11.4	0.7	3	33	1050	1	SXGA+ (60Hz)
1440 x 900	1.4	2.2	13.5	0.8	6	25	900	3	WXGA+ (60Hz)
1680 x 1050	1.2	1.9	11.5	0.7	6	30	1050	3	WSXGA+ (60Hz)
1600 x 1200	1.2	1.9	9.9	0.4	3	46	1200	1	UXGA (60Hz)

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** or **IN2** can be output from the **MONITOR OUT** port.



ⒶCOMPUTER IN1, ⒷMONITOR OUT

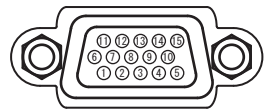
D-sub 15pin mini shrink jack

<Computer 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

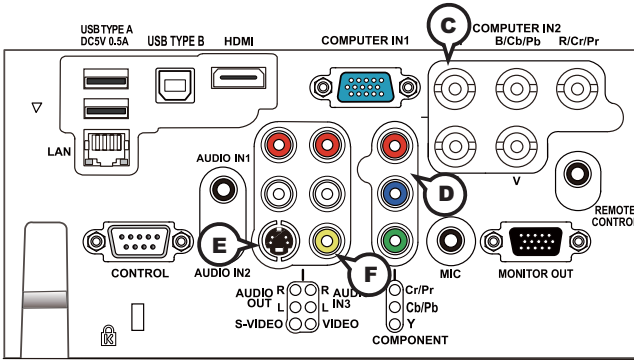
<Component video signal>

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



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

Connection to the ports (continued)



ⒸCOMPUTER IN2 (G/Y, B/Cb/Pb, R/Cr/Pr, H, V)

- BNC jack x 5
- Video : Analog 0.7Vp-p, 75Ω terminator
- H/V, sync, : TTL level (positive/negative)
- Composite sync, : TTL level

ⒹCOMPONENT (Y, Cb/Pb, Cr/Pr)

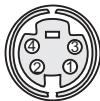
RCA jack x3

- System: 480i@60, 480p@60, 576i@50, 720p@50/60, 1080i@50/60, 1080p@50/60

Port	Signal
Y	Component video Y, 1.0±0.1Vp-p with composite sync, 75Ω terminator
Cb/Pb	Component video Cb/Pb, 0.7±0.1Vp-p, 75Ω terminator
Cr/Pr	Component video Cr/Pr, 0.7±0.1Vp-p, 75Ω terminator

ⒺS-VIDEO

Mini DIN 4pin jack



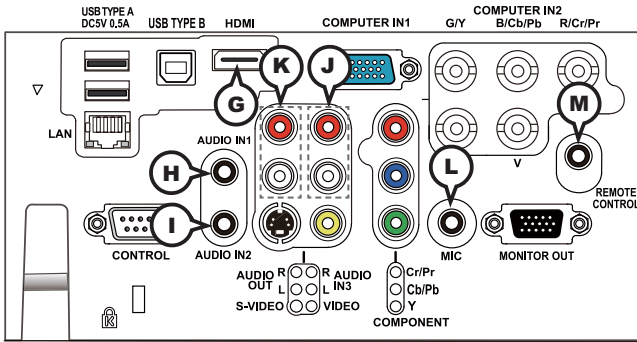
- System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL(60Hz)

Pin	Signal
1	Color signal 0.286Vp-p (NTSC, burst), 75Ω terminator Color signal 0.300Vp-p (PAL/SECAM, burst) 75Ω terminator
2	Brightness signal, 1.0Vp-p, 75Ω terminator
3	Ground
4	Ground

ⒻVIDEO

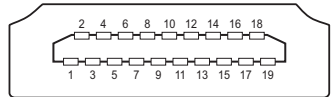
RCA jack

- System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL(60Hz)
- 1.0±0.1Vp-p, 75Ω terminator



ⓂHDMI

- 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)		

* HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

ⓂAUDIO IN1, ⓂAUDIO IN2

- Ø3.5 stereo mini jack
- 47kΩ terminator

ⓂAUDIO IN3 (R, L)

- RCA jack x2
- 47kΩ terminator

ⓂAUDIO OUT (R, L)

- RCA jack x2
- 1kΩ output impedance

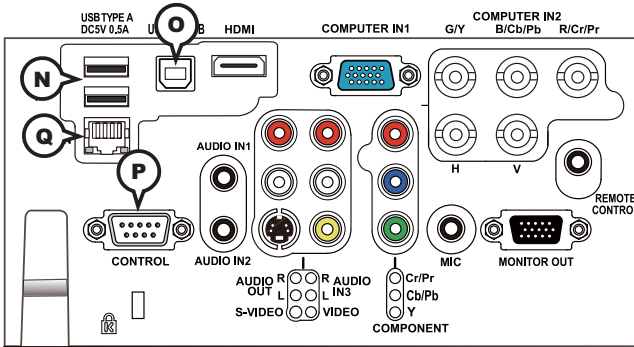
ⓂMIC

- Ø3.5 mono mini jack
- <Low level>
- 2 mVrms, 1kΩ terminator
- <High level>
- 20 mVrms, 1kΩ terminator

ⓂREMOTE CONTROL

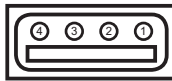
- Ø3.5 stereo mini jack

Connection to the ports (continued)



N USB TYPE A

USB A type jack



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

O USB TYPE B

USB B type jack

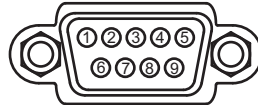


Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground

P CONTROL

D-sub 9pin plug

- About the details of RS-232C communication, please refer to the section "RS-232C Communication".

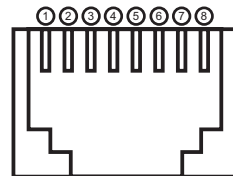


Pin	Signal	Pin	Signal	Pin	Signal
1	(No connection)	4	(No connection)	7	RTS
2	RD	5	Ground	8	CTS
3	TD	6	(No connection)	9	(No connection)

Q LAN

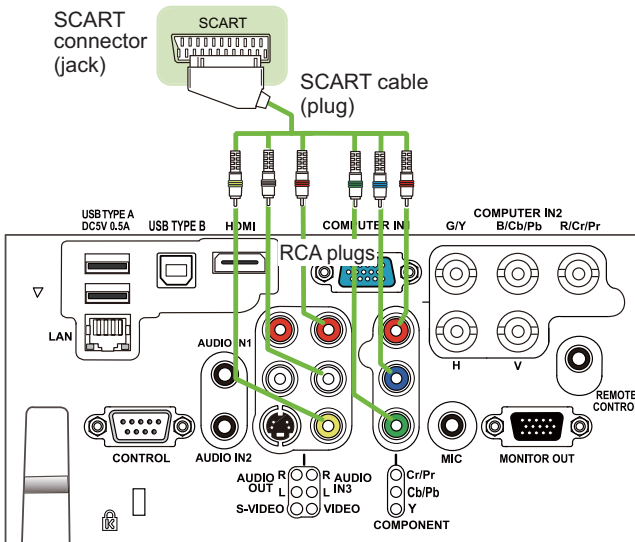
RJ-45 jack

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



To input SCART RGB signal;

ex.



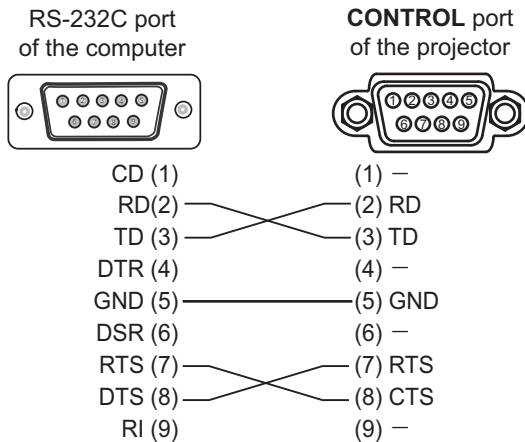
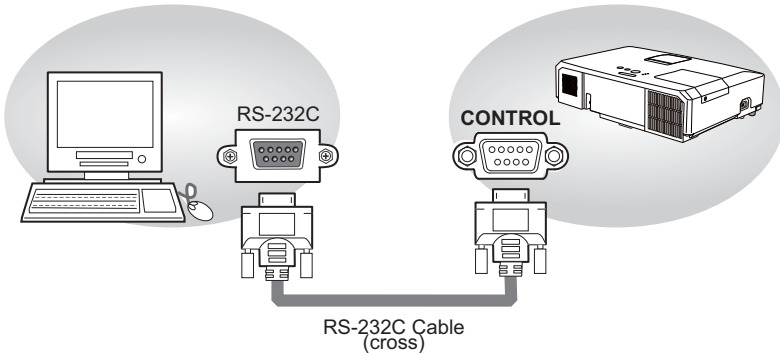
To input SCART RGB signal to the projector, use a SCART to RCA cable. Connect the plugs refer to above ex.. For more reference, please consult your dealer.

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 (17).

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)



Communicaion 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 [(eL)(eH)].	BEh	EFh	03h	06h	00h	(aL)	(aH)	01h	00h	(bL)	(bH)	(cL)	(cH)
<GET>Read projector internal setup value [(bL)(bH)] .						(aL)	(aH)	02h	00h	(bL)	(bH)	00h	00h
<INCREMENT> Increment setup value [(bL)(bH)] by 1.						(aL)	(aH)	04h	00h	(bL)	(bH)	00h	00h
<DECREMENT> Decrement setup value [(bL)(bH)] by 1.						(aL)	(aH)	05h	00h	(bL)	(bH)	00h	00h
<EXECUTE> Run a command [(bL)(bH)].						(aL)	(aH)	06h	00h	(bL)	(bH)	00h	00h

[Header code] [Packet] [Data size]

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

[CRC flag]

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

[Action]

Set functional code to byte number 7, 8.

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

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

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

[Type] [Setting code]

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

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

(1) ACK reply : 06h

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

(2) NAK reply : 15h

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

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

(3) Error reply : 1Ch + 0000h

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

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

(4) Data reply : 1Dh + xxxxh

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

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

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

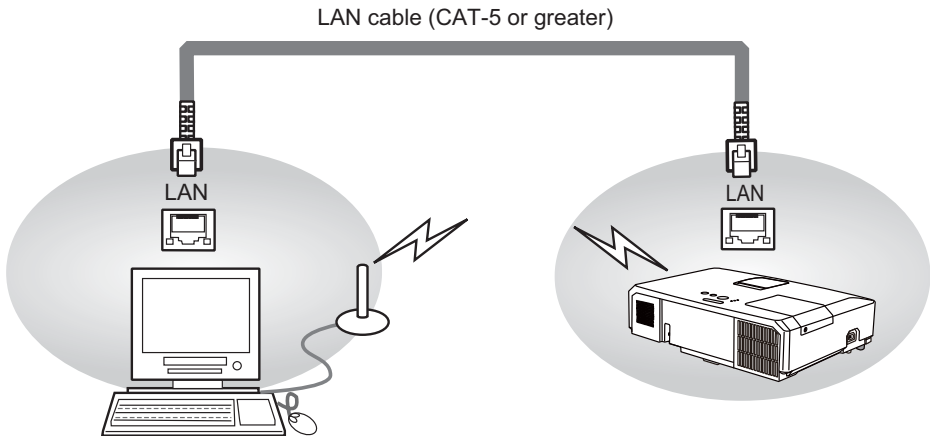
Command Control via the Network

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 (📖17).

Connection

1. Turn off the projector and the computer.
2. Connect the projector's **LAN** port and the computer's LAN port with a LAN cable. Use the cable that fulfills the specification shown in figure (Use CAT-5 or greater LAN Cable when LAN ports are used)
3. Turn the computer on, and after the computer has started up turn the projector on.



Communication Port

The following two ports are assigned for the command control.

TCP #23

TCP #9715

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

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

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

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

Command control settings

[TCP #23]

1. Command format

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

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

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

(1) ACK reply : 06h

Refer to RS-232C communication (10).

(2) NAK reply : 15h

Refer to RS-232C communication (10).

(3) Error reply : 1Ch + 0000h

Refer to RS-232C communication (10).

(4) Data reply : 1Dh + xxxxh

Refer to RS-232C communication (10).

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

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

[TCP #9715]

1. Command format

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

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

[Header]

02, Fixed

[Data Length]

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

[RS-232C commands]

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

[Check Sum]

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

[Connection ID]

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

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

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

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

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

- (1) ACK reply : 06h + xxh (xxh : connection ID)
- (2) NAK reply : 15h + xxh
- (3) Error reply : 1Ch + 0000h + xxh
- (4) Data reply : 1Dh + 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

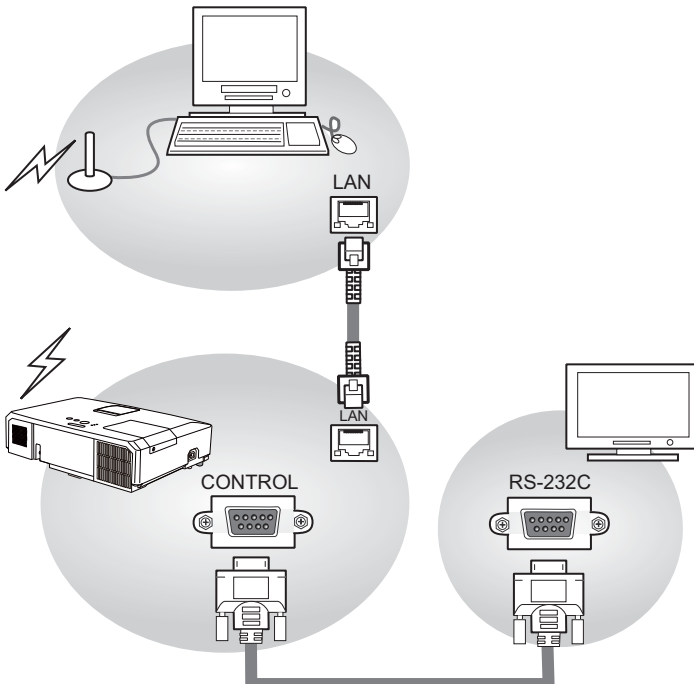
This projector is equipped with NETWORK BRIDGE function.

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 **6. Network Bridge function** in the **Network Guide**.

Connection

1. Connect the computer's LAN port and the projector's **LAN** port with a LAN cable.
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 **6.4 Transmission method** in the **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	BE EF	03 06 00	19 D3	02 00	00 60	00 00		
			[Example return]						
			00 00	01 00	02 00				
			[Off]	[On]	[Cool down]				
Input Source	Set	COMPUTER IN1	BE EF	03 06 00	FE D2	01 00	00 20	00 00	
		COMPUTER IN2	BE EF	03 06 00	3E D0	01 00	00 20	04 00	
		HDMI	BE EF	03 06 00	0E D2	01 00	00 20	03 00	
		COMPONENT	BE EF	03 06 00	AE D1	01 00	00 20	05 00	
		S-VIDEO	BE EF	03 06 00	9E D3	01 00	00 20	02 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	
		USB TYPE A	BE EF	03 06 00	5E D1	01 00	00 20	06 00	
	USB TYPE B	BE EF	03 06 00	FE D7	01 00	00 20	0C 00		
	Get	BE EF	03 06 00	CD D2	02 00	00 20	00 00		
Error Status	Get	BE EF	03 06 00	D9 D8	02 00	20 60	00 00		
			[Example return]						
			00 00	01 00	02 00	03 00			
		[Normal]	[Cover error]	[Fan error]	[Lamp error]				
		04 00	05 00	07 00	08 00				
		[Temp error]	[Air flow error]	[Cold error]	[Filter error]				
MAGNIFY	Get	BE EF	03 06 00	7C D2	02 00	07 30	00 00		
	Increment	BE EF	03 06 00	1A D2	04 00	07 30	00 00		
	Decrement	BE EF	03 06 00	CB D3	05 00	07 30	00 00		
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		
PICTURE MODE	Set	NORMAL	BE EF	03 06 00	23 F6	01 00	BA 30	00 00	
		CINEMA	BE EF	03 06 00	B3 F7	01 00	BA 30	01 00	
		DYNAMIC	BE EF	03 06 00	E3 F4	01 00	BA 30	04 00	
		BOARD(BLACK)	BE EF	03 06 00	E3 EF	01 00	BA 30	20 00	
		BOARD(GREEN)	BE EF	03 06 00	73 EE	01 00	BA 30	21 00	
		WHITEBOARD	BE EF	03 06 00	83 EE	01 00	BA 30	22 00	
		DAYTIME	BE EF	03 06 00	E3 C7	01 00	BA 30	40 00	
		PHOTO	BE EF	03 06 00	73 F5	01 00	BA 30	05 00	
	DICOM SIM.	BE EF	03 06 00	73 C6	01 00	BA 30	41 00		
	Get	BE EF	03 06 00	10 F6	02 00	BA 30	00 00		
			[Example return]						
			00 00	01 00	04 00	05 00	20 00		
			[Normal]	[Cinema]	[Dynamic]	[PHOTO]	[BOARD(BLACK)]		
			21 00	22 00	40 00	41 00	10 00		
			[BOARD(GREEN)]	[WHITEBOARD]	[DAY TIME]	[DICOM SIM.]	[Custom]		

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

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
BRIGHTNESS	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
User Gamma Pattern	Set	Get	BE EF	03	06 00	F4 F0	02 00	A1 30	00 00
		Off	BE EF	03	06 00	FB FA	01 00	80 30	00 00
		9 steps gray scale	BE EF	03	06 00	6B FB	01 00	80 30	01 00
		15 steps gray scale	BE EF	03	06 00	9B FB	01 00	80 30	02 00
	Ramp	BE EF	03	06 00	0B FA	01 00	80 30	03 00	
Get	BE EF	03	06 00	C8 FA	02 00	80 30	00 00		
User Gamma Point 1	Get	BE EF	03	06 00	08 FE	02 00	90 30	00 00	
	Increment	BE EF	03	06 00	6E FE	04 00	90 30	00 00	
	Decrement	BE EF	03	06 00	BF FF	05 00	90 30	00 00	
User Gamma Point 1 Reset	Execute	BE EF	03	06 00	58 C2	06 00	50 70	00 00	
User Gamma Point 2	Get	BE EF	03	06 00	F4 FF	02 00	91 30	00 00	
	Increment	BE EF	03	06 00	92 FF	04 00	91 30	00 00	
	Decrement	BE EF	03	06 00	43 FE	05 00	91 30	00 00	
User Gamma Point 2 Reset	Execute	BE EF	03	06 00	A4 C3	06 00	51 70	00 00	
User Gamma Point 3	Get	BE EF	03	06 00	B0 FF	02 00	92 30	00 00	
	Increment	BE EF	03	06 00	D6 FF	04 00	92 30	00 00	
	Decrement	BE EF	03	06 00	07 FE	05 00	92 30	00 00	
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	

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

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

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

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
COLOR TEMP OFFSET G	Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00	
	Increment	BE EF	03	06 00	26 F5	04 00	B6 30	00 00	
	Decrement	BE EF	03	06 00	F7 F4	05 00	B6 30	00 00	
COLOR TEMP OFFSET G Reset	Execute	BE EF	03	06 00	BC C4	06 00	4B 70	00 00	
COLOR TEMP OFFSET B	Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00	
	Increment	BE EF	03	06 00	DA F4	04 00	B7 30	00 00	
	Decrement	BE EF	03	06 00	0B F5	05 00	B7 30	00 00	
COLOR TEMP OFFSET B Reset	Execute	BE EF	03	06 00	C8 C5	06 00	4C 70	00 00	
COLOR	Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00	
	Increment	BE EF	03	06 00	D3 72	04 00	02 22	00 00	
	Decrement	BE EF	03	06 00	02 73	05 00	02 22	00 00	
COLOR Reset	Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00	
TINT	Get	BE EF	03	06 00	49 73	02 00	03 22	00 00	
	Increment	BE EF	03	06 00	2F 73	04 00	03 22	00 00	
	Decrement	BE EF	03	06 00	FE 72	05 00	03 22	00 00	
TINT Reset	Execute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00	
SHARPNESS	Get	BE EF	03	06 00	F1 72	02 00	01 22	00 00	
	Increment	BE EF	03	06 00	97 72	04 00	01 22	00 00	
	Decrement	BE EF	03	06 00	46 73	05 00	01 22	00 00	
SHARPNESS Reset	Execute	BE EF	03	06 00	C4 D0	06 00	09 70	00 00	
ACTIVE IRIS	Set	OFF	BE EF	03	06 00	0B 22	01 00	04 33	00 00
		THEATER	BE EF	03	06 00	CB 2F	01 00	04 33	10 00
		PRESENTATION	BE EF	03	06 00	5B 2E	01 00	04 33	11 00
	Get	BE EF	03	06 00	38 22	02 00	04 33	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
		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
		(*) NATIVE	BE EF	03	06 00	5E D7	01 00	08 20	08 00
	NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00	
Get	BE EF	03	06 00	AD D0	02 00	08 20	00 00		
OVER SCAN	Get	BE EF	03	06 00	91 70	02 00	09 22	00 00	
	Increment	BE EF	03	06 00	F7 70	04 00	09 22	00 00	
	Decrement	BE EF	03	06 00	26 71	05 00	09 22	00 00	
OVER SCAN Reset	Execute	BE EF	03	06 00	EC D9	06 00	27 70	00 00	
V POSITION	Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00	
	Increment	BE EF	03	06 00	6B 83	04 00	00 21	00 00	
	Decrement	BE EF	03	06 00	BA 82	05 00	00 21	00 00	
V POSITION Reset	Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00	

(*) only for CP-WX4022WN
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RS-232C Communication / Network command table (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
H POSITION	Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00	
	Increment	BE EF	03	06 00	97 82	04 00	01 21	00 00	
	Decrement	BE EF	03	06 00	46 83	05 00	01 21	00 00	
H POSITION Reset	Execute	BE EF	03	06 00	1C D3	06 00	03 70	00 00	
H PHASE	Get	BE EF	03	06 00	49 83	02 00	03 21	00 00	
	Increment	BE EF	03	06 00	2F 83	04 00	03 21	00 00	
	Decrement	BE EF	03	06 00	FE 82	05 00	03 21	00 00	
H SIZE	Get	BE EF	03	06 00	B5 82	02 00	02 21	00 00	
	Increment	BE EF	03	06 00	D3 82	04 00	02 21	00 00	
	Decrement	BE EF	03	06 00	02 83	05 00	02 21	00 00	
H SIZE Reset	Execute	BE EF	03	06 00	68 D2	06 00	04 70	00 00	
AUTO ADJUST	Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00	
PROGRESSIVE	Set	OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
		FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
	Get	BE EF	03	06 00	79 72	02 00	07 22	00 00	
VIDEO NR	Set	LOW	BE EF	03	06 00	26 72	01 00	06 22	01 00
		MID	BE EF	03	06 00	D6 72	01 00	06 22	02 00
		HIGH	BE EF	03	06 00	46 73	01 00	06 22	03 00
	Get	BE EF	03	06 00	85 73	02 00	06 22	00 00	
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
	REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00	
Get	BE EF	03	06 00	3D 72	02 00	04 22	00 00		
COMPONENT	Set	COMPONENT	BE EF	03	06 00	4A D7	01 00	17 20	00 00
		SCART RGB	BE EF	03	06 00	DA D6	01 00	17 20	01 00
	Get	BE EF	03	06 00	79 D7	02 00	17 20	00 00	
S-VIDEO FORMAT	Set	AUTO	BE EF	03	06 00	E6 70	01 00	12 22	0A 00
		NTSC	BE EF	03	06 00	86 74	01 00	12 22	04 00
		PAL	BE EF	03	06 00	16 75	01 00	12 22	05 00
		SECAM	BE EF	03	06 00	16 70	01 00	12 22	09 00
		NTSC4.43	BE EF	03	06 00	26 77	01 00	12 22	02 00
		M-PAL	BE EF	03	06 00	86 71	01 00	12 22	08 00
	N-PAL	BE EF	03	06 00	76 74	01 00	12 22	07 00	
Get	BE EF	03	06 00	75 76	02 00	12 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		
HDMI FORMAT	Set	AUTO	BE EF	03	06 00	BA 77	01 00	13 22	00 00
		VIDEO	BE EF	03	06 00	2A 76	01 00	13 22	01 00
		COMPUTER	BE EF	03	06 00	DA 76	01 00	13 22	02 00
	Get	BE EF	03	06 00	89 77	02 00	13 22	00 00	

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

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
HDMI 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	
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
		Get	BE EF	03	06 00	F1 D7	02 00	11 20	00 00
FRAME LOCK – COMPUTER IN1	Set	OFF	BE EF	03	06 00	3B C2	01 00	50 30	00 00
		ON	BE EF	03	06 00	AB C3	01 00	50 30	01 00
		Get	BE EF	03	06 00	08 C2	02 00	50 30	00 00
FRAME LOCK – COMPUTER IN2	Set	OFF	BE EF	03	06 00	0B C3	01 00	54 30	00 00
		ON	BE EF	03	06 00	9B C2	01 00	54 30	01 00
		Get	BE EF	03	06 00	38 C3	02 00	54 30	00 00
FRAME LOCK – HDMI	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
AUTO KEYSTONE EXECUTE	Execute	BE EF	03	06 00	E5 D1	06 00	0D 20	00 00	
AUTO KEYSTONE	Set	OFF	BE EF	03	06 00	EA D1	01 00	0F 20	00 00
		ON	BE EF	03	06 00	7A D0	01 00	0F 20	01 00
		Get	BE EF	03	06 00	D9 D1	02 00	0F 20	00 00
KEYSTONE V	Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00	
	Increment	BE EF	03	06 00	DF D3	04 00	07 20	00 00	
	Decrement	BE EF	03	06 00	0E D2	05 00	07 20	00 00	
KEYSTONE V Reset	Execute	BE EF	03	06 00	08 D0	06 00	0C 70	00 00	
KEYSTONE H	Get	BE EF	03	06 00	E9 D0	02 00	0B 20	00 00	
	Increment	BE EF	03	06 00	8F D0	04 00	0B 20	00 00	
	Decrement	BE EF	03	06 00	5E D1	05 00	0B 20	00 00	
KEYSTONE H Reset	Execute	BE EF	03	06 00	98 D8	06 00	20 70	00 00	
PERFECT FIT	Set	Disable	BE EF	03	06 00	FE 88	01 00	20 21	00 00
		Enable	BE EF	03	06 00	6E 89	01 00	20 21	01 00
		Get	BE EF	03	06 00	CD 88	02 00	20 21	00 00
PERFECT FIT Left Top -H	Get	BE EF	03	06 00	31 89	02 00	21 21	00 00	
	Increment	BE EF	03	06 00	57 89	04 00	21 21	00 00	
	Decrement	BE EF	03	06 00	86 88	05 00	21 21	00 00	
PERFECT FIT Left Top -V	Get	BE EF	03	06 00	75 89	02 00	22 21	00 00	
	Increment	BE EF	03	06 00	13 89	04 00	22 21	00 00	
	Decrement	BE EF	03	06 00	C2 88	05 00	22 21	00 00	
PERFECT FIT Right Top -H	Get	BE EF	03	06 00	89 88	02 00	23 21	00 00	
	Increment	BE EF	03	06 00	EF 88	04 00	23 21	00 00	
	Decrement	BE EF	03	06 00	3E 89	05 00	23 21	00 00	
PERFECT FIT Right Top -V	Get	BE EF	03	06 00	FD 89	02 00	24 21	00 00	
	Increment	BE EF	03	06 00	9B 89	04 00	24 21	00 00	
	Decrement	BE EF	03	06 00	4A 88	05 00	24 21	00 00	

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

Names	Operation Type		Header				Command Data		
					CRC	Action	Type	Setting Code	
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 Distortion Position V	Get		BE EF	03	06 00	89 96	02 00	43 21	00 00
	Increment		BE EF	03	06 00	EF 96	04 00	43 21	00 00
	Decrement		BE EF	03	06 00	3E 97	05 00	43 21	00 00
PERFECT FIT Top Side Distortion	Get		BE EF	03	06 00	FD 97	02 00	44 21	00 00
	Increment		BE EF	03	06 00	9B 97	04 00	44 21	00 00
	Decrement		BE EF	03	06 00	4A 96	05 00	44 21	00 00
PERFECT FIT Bottom Side Distortion	Get		BE EF	03	06 00	01 96	02 00	45 21	00 00
	Increment		BE EF	03	06 00	67 96	04 00	45 21	00 00
	Decrement		BE EF	03	06 00	B6 97	05 00	45 21	00 00
PERFECT FIT Distortion Position H	Get		BE EF	03	06 00	45 96	02 00	46 21	00 00
	Increment		BE EF	03	06 00	23 96	04 00	46 21	00 00
	Decrement		BE EF	03	06 00	F2 97	05 00	46 21	00 00
PERFECT FIT All Sides Reset	Execute		BE EF	03	06 00	3D 96	06 00	47 21	00 00
AUTO ECO MODE	Set	OFF	BE EF	03	06 00	FB 27	01 00	10 33	00 00
		ON	BE EF	03	06 00	6B 26	01 00	10 33	01 00
	Get		BE EF	03	06 00	C8 27	02 00	10 33	00 00
ECO MODE	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		ECO	BE EF	03	06 00	AB 22	01 00	00 33	01 00
		INTELLIGENT ECO	BE EF	03	06 00	FB 2E	01 00	00 33	10 00
	SAVER	BE EF	03	06 00	FB 3A	01 00	00 33	20 00	
Get		BE EF	03	06 00	08 23	02 00	00 33	00 00	
INSTALLATION	Set	FRONT / DESKTOP	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		REAR / DESKTOP	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		REAR / CEILING	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		FRONT / CEILING	BE EF	03	06 00	37 D2	01 00	01 30	03 00
	Get		BE EF	03	06 00	F4 D2	02 00	01 30	00 00
STANDBY MODE	Set	NORMAL	BE EF	03	06 00	D6 D2	01 00	01 60	00 00
		SAVING	BE EF	03	06 00	46 D3	01 00	01 60	01 00
	Get		BE EF	03	06 00	E5 D2	02 00	01 60	00 00

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

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
MONITOR OUT - COMPUTER IN1	Set	COMPUTER IN1	BE EF	03	06 00	3E F4	01 00	B0 20	00 00
		OFF	BE EF	03	06 00	CE B5	01 00	B0 20	FF 00
	Get	BE EF	03	06 00	0D F4	02 00	B0 20	00 00	
MONITOR OUT - COMPUTER IN2	Set	COMPUTER IN2	BE EF	03	06 00	CE F7	01 00	B4 20	04 00
		OFF	BE EF	03	06 00	FE B4	01 00	B4 20	FF 00
	Get	BE EF	03	06 00	3D F5	02 00	B4 20	00 00	
MONITOR OUT- COMPONENT	Set	COMPUTER IN1	BE EF	03	06 00	F2 F4	01 00	B5 20	00 00
		COMPUTER IN2	BE EF	03	06 00	32 F6	01 00	B5 20	04 00
	Get	BE EF	03	06 00	02 B5	01 00	B5 20	FF 00	
MONITOR OUT - S-VIDEO	Set	COMPUTER IN1	BE EF	03	06 00	86 F5	01 00	B2 20	00 00
		COMPUTER IN2	BE EF	03	06 00	46 F7	01 00	B2 20	04 00
	Get	BE EF	03	06 00	76 B4	01 00	B2 20	FF 00	
MONITOR OUT - VIDEO	Set	COMPUTER IN1	BE EF	03	06 00	B5 F5	02 00	B2 20	00 00
		COMPUTER IN2	BE EF	03	06 00	C2 F5	01 00	B1 20	00 00
	Get	BE EF	03	06 00	02 F7	01 00	B1 20	04 00	
MONITOR OUT - HDMI	Set	COMPUTER IN1	BE EF	03	06 00	32 B4	01 00	B1 20	FF 00
		COMPUTER IN2	BE EF	03	06 00	F1 F5	02 00	B1 20	00 00
	Get	BE EF	03	06 00	7A F4	01 00	B3 20	00 00	
MONITOR OUT - LAN	Set	COMPUTER IN1	BE EF	03	06 00	BA F6	01 00	B3 20	04 00
		COMPUTER IN2	BE EF	03	06 00	8A B5	01 00	B3 20	FF 00
	Get	BE EF	03	06 00	49 F4	02 00	B3 20	00 00	
MONITOR OUT - USB TYPE A	Set	COMPUTER IN1	BE EF	03	06 00	1A F6	01 00	BB 20	00 00
		COMPUTER IN2	BE EF	03	06 00	DA F4	01 00	BB 20	04 00
	Get	BE EF	03	06 00	EA B7	01 00	BB 20	FF 00	
MONITOR OUT - USB TYPE B	Set	COMPUTER IN1	BE EF	03	06 00	29 F6	02 00	BB 20	00 00
		COMPUTER IN2	BE EF	03	06 00	B6 F4	01 00	B6 20	00 00
	Get	BE EF	03	06 00	76 F6	01 00	B6 20	04 00	
MONITOR OUT - STANDBY	Set	COMPUTER IN1	BE EF	03	06 00	46 B5	01 00	B6 20	FF 00
		COMPUTER IN2	BE EF	03	06 00	85 F4	02 00	B6 20	00 00
	Get	BE EF	03	06 00	6E F7	01 00	BC 20	00 00	
VOLUME - COMPUTER IN1	Set	COMPUTER IN1	BE EF	03	06 00	AE F5	01 00	BC 20	04 00
		COMPUTER IN2	BE EF	03	06 00	9E B6	01 00	BC 20	FF 00
	Get	BE EF	03	06 00	5D F7	02 00	BC 20	00 00	
VOLUME - COMPUTER IN2	Set	COMPUTER IN1	BE EF	03	06 00	2A F7	01 00	BF 20	00 00
		COMPUTER IN2	BE EF	03	06 00	EA F5	01 00	BF 20	04 00
	Get	BE EF	03	06 00	DA B6	01 00	BF 20	FF 00	
VOLUME - COMPONENT	Set	COMPUTER IN1	BE EF	03	06 00	19 F7	02 00	BF 20	00 00
		COMPUTER IN2	BE EF	03	06 00	CD CC	02 00	60 20	00 00
	Get	BE EF	03	06 00	AB CC	04 00	60 20	00 00	
VOLUME - COMPONENT	Set	COMPUTER IN1	BE EF	03	06 00	7A CD	05 00	60 20	00 00
		COMPUTER IN2	BE EF	03	06 00	FD CD	02 00	64 20	00 00
	Get	BE EF	03	06 00	9B CD	04 00	64 20	00 00	
VOLUME - COMPONENT	Set	COMPUTER IN1	BE EF	03	06 00	4A CC	05 00	64 20	00 00
		COMPUTER IN2	BE EF	03	06 00	01 CC	02 00	65 20	00 00
	Get	BE EF	03	06 00	67 CC	04 00	65 20	00 00	
VOLUME - COMPONENT	Set	COMPUTER IN1	BE EF	03	06 00	B6 CD	05 00	65 20	00 00
		COMPUTER IN2	BE EF	03	06 00	B6 CD	05 00	65 20	00 00
	Get	BE EF	03	06 00	B6 CD	05 00	65 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 - S-VIDEO	Get	BE EF	03	06 00	75 CD	02 00	62 20	00 00	
	Increment	BE EF	03	06 00	13 CD	04 00	62 20	00 00	
	Decrement	BE EF	03	06 00	C2 CC	05 00	62 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 - HDMI	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 - 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	
VOLUME - USB TYPE A	Get	BE EF	03	06 00	45 CC	02 00	66 20	00 00	
	Increment	BE EF	03	06 00	23 CC	04 00	66 20	00 00	
	Decrement	BE EF	03	06 00	F2 CD	05 00	66 20	00 00	
VOLUME - USB TYPE B	Get	BE EF	03	06 00	9D CF	02 00	6C 20	00 00	
	Increment	BE EF	03	06 00	8F CF	04 00	6C 20	00 00	
	Decrement	BE EF	03	06 00	2A CE	05 00	6C 20	00 00	
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	
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	ON	BE EF	03	06 00	FE D4	01 00	1C 20	01 00
		OFF	BE EF	03	06 00	6E D5	01 00	1C 20	00 00
	Get	BE EF	03	06 00	5D D5	02 00	1C 20	00 00	
AUDIO SOURCE - COMPUTER IN1	Set	AUDIO IN1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
		AUDIO IN2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
		AUDIO IN3	BE EF	03	06 00	0E DD	01 00	30 20	03 00
	OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00	
Get	BE EF	03	06 00	CD DD	02 00	30 20	00 00		
AUDIO SOURCE - COMPUTER IN2	Set	AUDIO IN1	BE EF	03	06 00	5E DD	01 00	34 20	01 00
		AUDIO IN2	BE EF	03	06 00	AE DD	01 00	34 20	02 00
		AUDIO IN3	BE EF	03	06 00	3E DC	01 00	34 20	03 00
	OFF	BE EF	03	06 00	CE DC	01 00	34 20	00 00	
Get	BE EF	03	06 00	FD DC	02 00	34 20	00 00		
AUDIO SOURCE - HDMI	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
	AUDIO_HDMI	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		

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

Names	Operation Type	Header				Command Data			
					CRC	Action	Type	Setting Code	
AUDIO SOURCE - COMPONENT	Set	AUDIO IN1	BE EF	03	06 00	A2 DC	01 00	35 20	01 00
		AUDIO IN2	BE EF	03	06 00	52 DC	01 00	35 20	02 00
		AUDIO IN3	BE EF	03	06 00	C2 DD	01 00	35 20	03 00
		OFF	BE EF	03	06 00	32 DD	01 00	35 20	00 00
	Get	BE EF	03	06 00	01 DD	02 00	35 20	00 00	
AUDIO SOURCE - S-VIDEO	Set	AUDIO IN1	BE EF	03	06 00	D6 DD	01 00	32 20	01 00
		AUDIO IN2	BE EF	03	06 00	26 DD	01 00	32 20	02 00
		AUDIO IN3	BE EF	03	06 00	B6 DC	01 00	32 20	03 00
		OFF	BE EF	03	06 00	46 DC	01 00	32 20	00 00
	Get	BE EF	03	06 00	75 DC	02 00	32 20	00 00	
AUDIO SOURCE - VIDEO	Set	AUDIO IN1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
		AUDIO IN2	BE EF	03	06 00	62 DD	01 00	31 20	02 00
		AUDIO IN3	BE EF	03	06 00	F2 DC	01 00	31 20	03 00
		OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
	Get	BE EF	03	06 00	31 DC	02 00	31 20	00 00	
AUDIO SOURCE - LAN	Set	OFF	BE EF	03	06 00	DADF	01 00	3B 20	00 00
		AUDIO IN1	BE EF	03	06 00	4ADE	01 00	3B 20	01 00
		AUDIO IN2	BE EF	03	06 00	BADE	01 00	3B 20	02 00
		AUDIO IN3	BE EF	03	06 00	2ADF	01 00	3B 20	03 00
		AUDIO_LAN	BE EF	03	06 00	8AD3	01 00	3B 20	11 00
	Get	BE EF	03	06 00	E9 DF	02 00	3B 20	00 00	
AUDIO SOURCE - USB TYPE A	Set	OFF	BE EF	03	06 00	76 DD	01 00	36 20	00 00
		AUDIO IN1	BE EF	03	06 00	E6 DC	01 00	36 20	01 00
		AUDIO IN2	BE EF	03	06 00	16 DC	01 00	36 20	02 00
		AUDIO IN3	BE EF	03	06 00	86 DD	01 00	36 20	03 00
		AUDIO_USB TYPE A	BE EF	03	06 00	B6 D0	01 00	36 20	10 00
	Get	BE EF	03	06 00	45 DD	02 00	36 20	00 00	
AUDIO SOURCE - USB TYPE B	Set	OFF	BE EF	03	06 00	AE DE	01 00	3C 20	00 00
		AUDIO IN1	BE EF	03	06 00	3E DF	01 00	3C 20	01 00
		AUDIO IN2	BE EF	03	06 00	CE DF	01 00	3C 20	02 00
		AUDIO IN3	BE EF	03	06 00	5E DE	01 00	3C 20	03 00
		AUDIO_USB TYPE B	BE EF	03	06 00	0E D2	01 00	3C 20	12 00
	Get	BE EF	03	06 00	9D DE	02 00	3C 20	00 00	
AUDIO SOURCE - STANDBY	Set	AUDIO IN1	BE EF	03	06 00	7A DF	01 00	3F 20	01 00
		AUDIO IN2	BE EF	03	06 00	8A DF	01 00	3F 20	02 00
		AUDIO IN3	BE EF	03	06 00	1A DE	01 00	3F 20	03 00
		OFF	BE EF	03	06 00	EA DE	01 00	3F 20	00 00
	Get	BE EF	03	06 00	D9 DE	02 00	3F 20	00 00	
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	
USB TYPE A SOUND ENABLE	Set	Disable	BE EF	03	06 00	CE F1	01 00	A4 20	00 00
		Enable	BE EF	03	06 00	5E F0	01 00	A4 20	01 00
	Get	BE EF	03	06 00	FD F1	02 00	A4 20	00 00	
USB TYPE B SOUND ENABLE	Set	Disable	BE EF	03	06 00	32 F0	01 00	A5 20	00 00
		Enable	BE EF	03	06 00	A2 F1	01 00	A5 20	01 00
	Get	BE EF	03	06 00	01 F0	02 00	A5 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
MIC LEVEL	Set	LOW	BE EF	03	06 00	02 F1	01 00	A1 20	00 00
		HIGH	BE EF	03	06 00	92 F0	01 00	A1 20	01 00
MIC VOLUME	Get	BE EF	03	06 00	31 F1	02 00	A1 20	00 00	
		BE EF	03	06 00	75 F1	02 00	A2 20	00 00	
		BE EF	03	06 00	13 F1	04 00	A2 20	00 00	
LANGUAGE *	Set	ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00
LANGUAGE *	Set	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
		ةببرعلا ةغللا	BE EF	03	06 00	37 DB	01 00	05 30	1C 00
		اكراف	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
MENU POSITION H	Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00	
		BE EF	03	06 00	62 D7	04 00	15 30	00 00	
		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	

* Not all of the languages in the table are supported.
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RS-232C Communication / Network command table (continued)

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

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

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
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	
AUTO SEARCH	Set	OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
		ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00
	Get	BE EF	03	06 00	85 D6	02 00	16 20	00 00	
DIRECT POWER ON	Set	OFF	BE EF	03	06 00	3B 89	01 00	20 31	00 00
		ON	BE EF	03	06 00	AB 88	01 00	20 31	01 00
	Get	BE EF	03	06 00	08 89	02 00	20 31	00 00	
AUTO POWER OFF	Get	BE EF	03	06 00	08 86	02 00	10 31	00 00	
	Increment	BE EF	03	06 00	6E 86	04 00	10 31	00 00	
	Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00	
USB TYPE B	Set	MOUSE	BE EF	03	06 00	FF 23	01 00	50 26	00 00
		USB DISPLAY	BE EF	03	06 00	6F 22	01 00	50 26	01 00
	Get	BE EF	03	06 00	CC 23	02 00	50 26	00 00	
LAMP TIME	Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00	
LAMP TIME Reset	Execute	BE EF	03	06 00	58 DC	06 00	30 70	00 00	
FILTER TIME	Get	BE EF	03	06 00	C2 F0	02 00	A0 10	00 00	
FILTER TIME Reset	Execute	BE EF	03	06 00	98 C6	06 00	40 70	00 00	
MY BUTTON-1	Set	COMPUTER IN1	BE EF	03	06 00	3A 33	01 00	00 36	00 00
		COMPUTER IN2	BE EF	03	06 00	FA 31	01 00	00 36	04 00
		HDMI	BE EF	03	06 00	CA 33	01 00	00 36	03 00
		COMPONENT	BE EF	03	06 00	6A 30	01 00	00 36	05 00
		S-VIDEO	BE EF	03	06 00	5A 32	01 00	00 36	02 00
		VIDEO	BE EF	03	06 00	AA 32	01 00	00 36	01 00
		LAN	BE EF	03	06 00	0A 34	01 00	00 36	08 00
		USB TYPE A	BE EF	03	06 00	9A 30	01 00	00 36	06 00
		USB TYPE B	BE EF	03	06 00	3A 36	01 00	00 36	0C 00
		INFORMATION	BE EF	03	06 00	FA 3E	01 00	00 36	10 00
		AUTO KEYSTONE EXECUTE	BE EF	03	06 00	6A 3F	01 00	00 36	11 00
		MY MEMORY	BE EF	03	06 00	9A 3F	01 00	00 36	12 00
		ACTIVE IRIS	BE EF	03	06 00	AA 3D	01 00	00 36	15 00
		PICTURE MODE	BE EF	03	06 00	0A 3E	01 00	00 36	13 00
		FILTER RESET	BE EF	03	06 00	3A 3C	01 00	00 36	14 00
		AV MUTE	BE EF	03	06 00	AA 38	01 00	00 36	19 00
		TEMPLATE	BE EF	03	06 00	CA 39	01 00	00 36	1B 00
		MIC VOLUME	BE EF	03	06 00	9A 24	01 00	00 36	36 00
		RESOLUTION	BE EF	03	06 00	9A 3A	01 00	00 36	1E 00
		ECO MODE	BE EF	03	06 00	0A 25	01 00	00 36	37 00
SAVER MODE	BE EF	03	06 00	6A 21	01 00	00 36	39 00		
MY IMAGE	BE EF	03	06 00	5A 3D	01 00	00 36	16 00		
SLIDESHOW	BE EF	03	06 00	9A 2B	01 00	00 36	22 00		
MESSENGER	BE EF	03	06 00	AA 29	01 00	00 36	25 00		
	Get	BE EF	03	06 00	09 33	02 00	00 36	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-2	Set	COMPUTER IN1	BE EF	03	06 00	C6 32	01 00	01 36	00 00
		COMPUTER IN2	BE EF	03	06 00	06 30	01 00	01 36	04 00
		HDMI	BE EF	03	06 00	36 32	01 00	01 36	03 00
		COMPONENT	BE EF	03	06 00	96 31	01 00	01 36	05 00
		S-VIDEO	BE EF	03	06 00	A6 33	01 00	01 36	02 00
		VIDEO	BE EF	03	06 00	56 33	01 00	01 36	01 00
		LAN	BE EF	03	06 00	F6 35	01 00	01 36	0B 00
		USB TYPE A	BE EF	03	06 00	66 31	01 00	01 36	06 00
		USB TYPE B	BE EF	03	06 00	C6 37	01 00	01 36	0C 00
		INFORMATION	BE EF	03	06 00	06 3F	01 00	01 36	10 00
		AUTO KEYSTONE EXECUTE	BE EF	03	06 00	96 3E	01 00	01 36	11 00
		MY MEMORY	BE EF	03	06 00	66 3E	01 00	01 36	12 00
		ACTIVE IRIS	BE EF	03	06 00	56 3C	01 00	01 36	15 00
		PICTURE MODE	BE EF	03	06 00	F6 3F	01 00	01 36	13 00
		FILTER RESET	BE EF	03	06 00	C6 3D	01 00	01 36	14 00
		AV MUTE	BE EF	03	06 00	56 39	01 00	01 36	19 00
		TEMPLATE	BE EF	03	06 00	36 38	01 00	01 36	1B 00
		RESOLUTION	BE EF	03	06 00	66 3B	01 00	01 36	1E 00
		MIC VOLUME	BE EF	03	06 00	66 25	01 00	01 36	36 00
		ECO MODE	BE EF	03	06 00	F6 24	01 00	01 36	37 00
		SAVER MODE	BE EF	03	06 00	96 20	01 00	01 36	39 00
MY IMAGE	BE EF	03	06 00	A6 3C	01 00	01 36	16 00		
SLIDESHOW	BE EF	03	06 00	66 2A	01 00	01 36	22 00		
MESSENGER	BE EF	03	06 00	56 28	01 00	01 36	25 00		
	Get	BE EF	03	06 00	F5 32	02 00	01 36	00 00	
MY SOURCE	Set	COMPUTER IN1	BE EF	03	06 00	FA 38	01 00	20 36	00 00
		COMPUTER IN2	BE EF	03	06 00	3A 3A	01 00	20 36	04 00
		HDMI	BE EF	03	06 00	0A 38	01 00	20 36	03 00
		COMPONENT	BE EF	03	06 00	AA 3B	01 00	20 36	05 00
		S-VIDEO	BE EF	03	06 00	9A 39	01 00	20 36	02 00
		VIDEO	BE EF	03	06 00	6A 39	01 00	20 36	01 00
		LAN	BE EF	03	06 00	CA 3F	01 00	20 36	0B 00
		USB TYPE A	BE EF	03	06 00	5A 3B	01 00	20 36	06 00
		USB TYPE B	BE EF	03	06 00	FA 3D	01 00	20 36	0C 00
	Get	BE EF	03	06 00	C9 38	02 00	20 36	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	

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

Names	Operation Type	Header				Command Data		
						CRC	Action	Type
PERFECT FIT Memory Save-1	Execute	BE EF	03	06 00	29 95	06 00	48 21	00 00
PERFECT FIT Memory Save-2	Execute	BE EF	03	06 00	D5 94	06 00	49 21	00 00
PERFECT FIT Memory Save-3	Execute	BE EF	03	06 00	91 94	06 00	4A 21	00 00
PERFECT FIT Memory Load-1	Execute	BE EF	03	06 00	6D 95	06 00	4B 21	00 00
PERFECT FIT Memory Load-2	Execute	BE EF	03	06 00	19 94	06 00	4C 21	00 00
PERFECT FIT Memory Load-3	Execute	BE EF	03	06 00	E5 95	06 00	4D 21	00 00

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
		21 = COMPONENT
		22 = S-VIDEO
		23 = VIDEO
		31 = HDMI
		41 = USB TYPE A
		51 = LAN
INPT ?	Input Source inquiry	11 = COMPUTER IN 1
		12 = COMPUTER IN 2
		21 = COMPONENT
		22 = S-VIDEO
		23 = VIDEO
		31 = HDMI
		41 = USB TYPE A
		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

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Commands	Control Description	Parameter or Response
ERST ?	Error Status inquiry	1st byte: Refers to Fan error; one of 0 to 2
		2nd byte: Refers to Lamp error; one of 0 to 2
		3rd byte: Refers to Temperature error; one of 0 to 2
		4th byte: Refers to Cover error; one of 0 to 2
		5th byte: Refers to Filter error; one of 0 to 2
		6th byte: Refers to Other error; one of 0 to 2
		The meaning of 0 to 2 is as given below 0 = Error is not detected; 1 = Warning; 2 = Error
LAMP ?	Lamp Status inquiry	1st number (digits 1 to 5): Lamp Time
		2nd number : 0 = Lamp off, 1 = Lamp on
INST ?	Input Source List inquiry	11 12 21 22 23 31 41 51 52
NAME ?	Projector Name inquiry	Responds with the name set in "PROJECTOR NAME" or "NETWORK"
INF1 ?	Manufacturer's Name inquiry	HITACHI
INF2 ?	Model Name inquiry	Your model name, "CP-X4022WN", "CP-X5022WN" or "CP-WX4022WN"
INFO ?	Other Information inquiry	Responds with the factory information and so on
CLSS ?	Class Information inquiry	1

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

- For specifications of PJLink™, see the web site of the Japan Business Machine and Information System Industries Association.
URL: <http://pjlink.jbmia.or.jp/>