

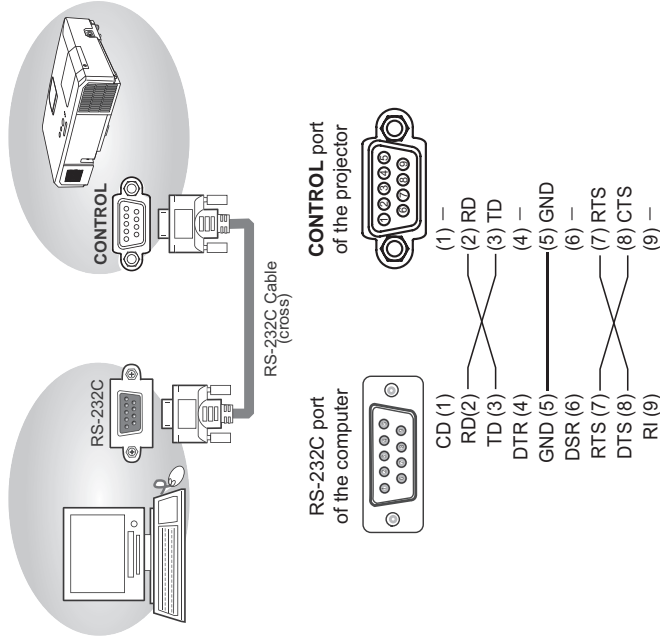
# 10. RS-232C communication

## 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.

### 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.



## Communication settings

1. Protocol  
19200bps,8N1
2. Command format ("h" shows hexadecimal)

Command	Byte Number													
	Header code		Packet		Data size		CRC flag		Action		Type		Setting code	
	L	H	L	H	L	H	L	H	L	H	L	H	L	H
<SET>Change setting to desired value [(cL)(cH)] by [(eL)(eH)].						(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.	BEh	EFh	03h	06h	00h	(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.

### [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.

### [Type] [Setting code]

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

**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 + xxxhx**

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

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

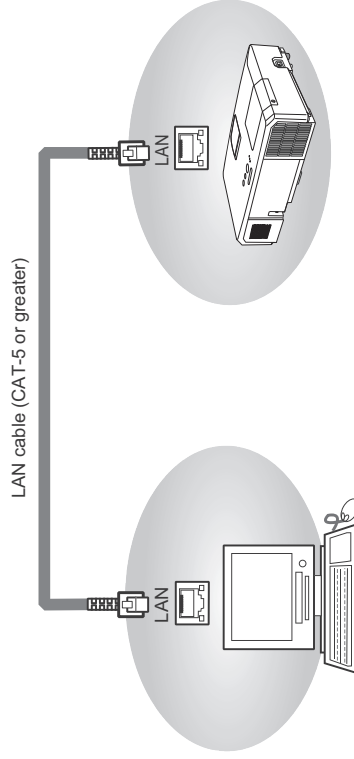
- Operation cannot be guaranteed when the projector receives an undefined command or data.
- Provide an interval of at least 40ms between the response code and any other code.
- The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
- Commands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

**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.

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

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

Security Settings	
<b>Network Control</b>	<p>Authentication Password</p> <p>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.</p> <p>Re-enter Authentication Password</p>

### 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.
- (2) **NAK reply : 15h**  
Refer to RS-232C communication.
- (3) **Error reply : 1Ch + 0000h**  
Refer to RS-232C communication.
- (4) **Data reply : 1Dh + xxxhx**  
Refer to RS-232C communication.
- (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.

#### [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 + xxxhx + xxh
- (5) Authentication error reply : 1Fh + 0400h + xxh
- (6) Projector busy reply: 1Fh + xxxhx + 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.

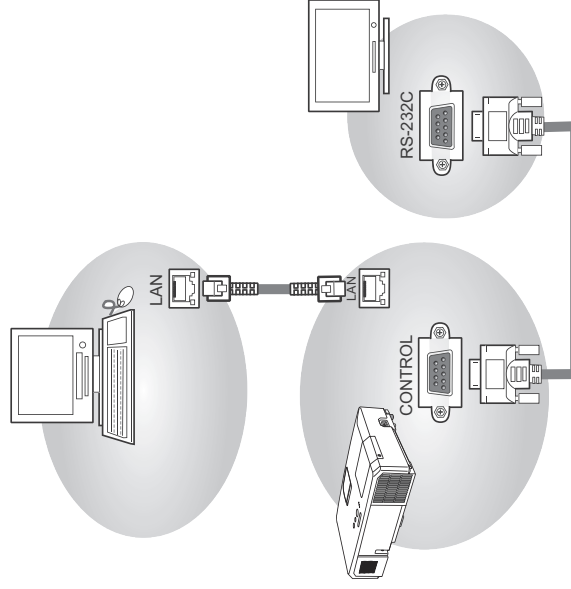
## Network Bridge Communication

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 **3.7 Controlling the external device via the projector(using the NETWORK BRIDGE function) - 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.



**Communication settings**

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

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.

**RS-232C Communication / Network command table**

Names	Operation Type	Header		Command Data			
		CRC	Action	Type	Setting code		
Power	Set	BE EF 03	06 00	2A D3	01 00	00 60	00 00
	Turn off	BE EF 03	06 00	BA D2	01 00	00 60	01 00
Input Source	Get	[Example return]	00 00	01 00	02 00		
			[Off]	[On]	[Cool down]		
	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
	USB TYPE A	BE EF 03	06 00	5E D1	01 00	00 20	06 00
	LAN	BE EF 03	06 00	CE D5	01 00	00 20	08 00
Error Status	Get	[Example return]	00 00	01 00	02 00	03 00	
			[Normal]	[Cover error]	[Fan error]	[Lamp error]	
MAGNIFY	Increment	[Temp error]	04 00	05 00	07 00	08 00	
			[Air flow error]	[Cold error]	[Filter error]		
	Decrement	BE EF 03	06 00	7C D2	02 00	07 30	00 00
	Set	BE EF 03	06 00	1A D2	04 00	07 30	00 00
FREEZE	Normal	[Temp error]	BE EF 03	06 00	CB D3	05 00	07 30
			BE EF 03	06 00	83 D2	01 00	02 30
	Decrement	BE EF 03	06 00	13 D3	01 00	02 30	01 00
	Set	BE EF 03	06 00	B0 D2	02 00	02 30	00 00
PICTURE MODE	Normal	[Example return]	BE EF 03	06 00	23 F6	01 00	BA 30
			BE EF 03	06 00	B3 F7	01 00	BA 30
	CINEMA	BE EF 03	06 00	E3 F4	01 00	BA 30	04 00
	DYNAMIC	BE EF 03	06 00	E3 EF	01 00	BA 30	20 00
	BOARD(BLACK)	BE EF 03	06 00	73 EE	01 00	BA 30	21 00
	BOARD(GREEN)	BE EF 03	06 00	83 EE	01 00	BA 30	22 00
	WHITEBOARD	BE EF 03	06 00	E3 C7	01 00	BA 30	40 00
	DAYTIME	BE EF 03	06 00	10 F6	02 00	BA 30	00 00
BRIGHTNESS	Get	[Example return]	00 00	01 00	04 00	10 00	
			[Normal]	[Cinema]	[Dynamic]	[Custom]	
	Increment	20 00	21 00	22 00	40 00		
	Decrement	[BOARD(BLACK)]	[BOARD(GREEN)]	[WHITEBOARD]	[DAY TIME]		
	Set	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
	Execute	BE EF 03	06 00	58 D3	06 00	00 70	00 00
	Get	BE EF 03	06 00	FD D3	02 00	04 20	00 00
	Decrement	BE EF 03	06 00	9B D3	04 00	04 20	00 00
CONTRAST	Increment	[Example return]	BE EF 03	06 00	4A D2	05 00	04 20
			BE EF 03	06 00	04 D2	05 00	04 20

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

Names	Operation Type	Header			Command Data		
		BE EF	GRC	Action	Type	Setting code	
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
	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
User Gamma Point 8	Decrement	BE EF 03	06 00	CB FE	05 00	97 30	00 00
	Execute	BE EF 03	06 00	2C C3	06 00	57 70	00 00
	1 HIGH	BE EF 03	06 00	0B F5	01 00	B0 30	03 00
COLOR TEMP	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
	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
	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
COLOR TEMP GAIN G	Decrement	BE EF 03	06 00	C7 F5	05 00	B2 30	00 00
	Execute	BE EF 03	06 00	EC C7	06 00	47 70	00 00
	Get	BE EF 03	06 00	8C F5	02 00	B3 30	00 00
COLOR TEMP GAIN B	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
	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
	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
COLOR TEMP OFFSET G	Decrement	BE EF 03	06 00	F7 F4	05 00	B6 30	00 00
	Execute	BE EF 03	06 00	BC C4	06 00	4B 70	00 00
	Get	BE EF 03	06 00	06 00	06 00	4B 70	00 00

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

Names	Operation Type	Header			Command Data		
		BE EF	GRC	Action	Type	Setting code	
CONTRAST Reset	Execute	BE EF 03	06 00	A4 D2	06 00	01 70	00 00
	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
GAMMA	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
	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
	User Gamma Pattern	Ramp	BE EF 03	06 00	0B FA	01 00	80 30
Get		BE EF 03	06 00	C8 FA	02 00	80 30	00 00
Increment		BE EF 03	06 00	08 FE	02 00	90 30	00 00
User Gamma Point 1	Decrement	BE EF 03	06 00	6E FE	04 00	90 30	00 00
	Execute	BE EF 03	06 00	BF FF	05 00	90 30	00 00
	Get	BE EF 03	06 00	58 C2	06 00	50 70	00 00
User Gamma Point 1 Reset	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
	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
User Gamma Point 3	Decrement	BE EF 03	06 00	07 FE	05 00	92 30	00 00
	Execute	BE EF 03	06 00	E0 C3	06 00	52 70	00 00
	Get	BE EF 03	06 00	4C FE	02 00	93 30	00 00
User Gamma Point 4	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
	Execute	BE EF 03	06 00	1C C2	06 00	53 70	00 00
User Gamma Point 4 Reset	Get	BE EF 03	06 00	3B 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	Execute	BE EF 03	06 00	68 C3	06 00	54 70	00 00
	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
User Gamma Point 6	Decrement	BE EF 03	06 00	73 FF	05 00	95 30	00 00
	Execute	BE EF 03	06 00	94 C2	06 00	55 70	00 00
	Get	BE EF 03	06 00	06 00	06 00	55 70	00 00

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CP-X4021N(C16B-X40N) / CP-X5021N(C16B-X50N) / CP-WX4021N(C16B-WX40N)

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

Names	Operation Type	Header			Command Data		
		BE EF	GRC	Action	Type	Setting code	
H POSITION	Get	03	F1 82	02 00	01 21	00 00	
	Increment	03	06 00	04 00	01 21	00 00	
	Decrement	03	06 00	05 00	01 21	00 00	
H POSITION Reset	Execute	03	1C D3	06 00	03 70	00 00	
	Get	03	49 83	02 00	03 21	00 00	
H PHASE	Increment	03	06 00	04 00	03 21	00 00	
	Decrement	03	06 00	05 00	03 21	00 00	
H SIZE	Get	03	06 00	02 00	02 21	00 00	
	Increment	03	06 00	03 82	04 00	02 21	
	Decrement	03	06 00	02 83	05 00	02 21	
H SIZE Reset	Execute	03	06 00	68 D2	06 00	04 70	
	Execute	03	06 00	91 D0	06 00	0A 20	
AUTO ADJUST EXECUTE	OFF	03	06 00	4A 72	01 00	07 22	
	TV	03	06 00	DA 73	01 00	07 22	
	FILM	03	06 00	2A 73	01 00	07 22	
PROGRESSIVE	Get	03	06 00	79 72	02 00	07 22	
	LOW	03	06 00	26 72	01 00	06 22	
	MID	03	06 00	D6 72	01 00	06 22	
VIDEO NR	HIGH	03	06 00	46 73	01 00	06 22	
	Get	03	06 00	85 73	02 00	06 22	
	AUTO	03	06 00	0E 72	01 00	04 22	
COLOR SPACE	RGB	03	06 00	9E 73	01 00	04 22	
	SIMPT240	03	06 00	6E 73	01 00	04 22	
	REC709	03	06 00	FE 72	01 00	04 22	
COMPONENT	REC601	03	06 00	CE 70	01 00	04 22	
	Get	03	06 00	3D 72	02 00	04 22	
	COMPONENT	03	06 00	4A D7	01 00	17 20	
S-VIDEO FORMAT	SCART RGB	03	06 00	DA D6	01 00	17 20	
	Get	03	06 00	79 D7	02 00	17 20	
	AUTO	03	06 00	E6 70	01 00	12 22	
C-VIDEO FORMAT	NTSC	03	06 00	86 74	01 00	12 22	
	PAL	03	06 00	16 75	01 00	12 22	
	SECAM	03	06 00	16 70	01 00	12 22	
C-VIDEO FORMAT	NTSC4.43	03	06 00	26 77	01 00	12 22	
	M-PAL	03	06 00	86 71	01 00	12 22	
	N-PAL	03	06 00	76 74	01 00	12 22	
C-VIDEO FORMAT	Get	03	06 00	75 76	02 00	12 22	
	AUTO	03	06 00	A2 70	01 00	11 22	
	NTSC	03	06 00	C2 74	01 00	11 22	
C-VIDEO FORMAT	PAL	03	06 00	52 75	01 00	11 22	
	SECAM	03	06 00	52 70	01 00	11 22	
	NTSC4.43	03	06 00	62 77	01 00	11 22	
C-VIDEO FORMAT	M-PAL	03	06 00	C2 71	01 00	11 22	
	N-PAL	03	06 00	32 74	01 00	11 22	
	Get	03	06 00	31 76	02 00	11 22	

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

Names	Operation Type	Header			Command Data		
		BE EF	GRC	Action	Type	Setting code	
COLOR TEMP OFFSET B	Get	03	BC F4	02 00	B7 30	00 00	
	Increment	03	06 00	DA F4	04 00	B7 30	
	Decrement	03	06 00	0B F5	05 00	B7 30	
COLOR TEMP OFFSET B Reset	Execute	03	06 00	C8 C5	06 00	4C 70	
	Get	03	06 00	B5 72	02 00	02 22	
COLOR	Increment	03	06 00	D3 72	04 00	02 22	
	Decrement	03	06 00	02 73	05 00	02 22	
COLOR Reset	Execute	03	06 00	80 D0	06 00	0A 70	
	Get	03	06 00	49 73	02 00	03 22	
	Increment	03	06 00	2F 73	04 00	03 22	
TINT	Decrement	03	06 00	FE 72	05 00	03 22	
	Execute	03	06 00	7C D1	06 00	0B 70	
TINT Reset	Get	03	06 00	F1 72	02 00	01 22	
	Increment	03	06 00	97 72	04 00	01 22	
SHARPNESS	Decrement	03	06 00	46 73	05 00	01 22	
	Execute	03	06 00	C4 D0	06 00	09 70	
SHARPNESS Reset	OFF	03	06 00	0B 22	01 00	04 33	
	THEATER	03	06 00	CB 2F	01 00	04 33	
	PRESENTATION	03	06 00	5B 2E	01 00	04 33	
ACTIVE IRIS	Get	03	06 00	38 22	02 00	04 33	
	1	03	06 00	0E D7	01 00	14 20	
	2	03	06 00	9E D6	01 00	14 20	
MY MEMORY Load	3	03	06 00	6E D6	01 00	14 20	
	4	03	06 00	FE D7	01 00	14 20	
	1	03	06 00	F2 D6	01 00	15 20	
MY MEMORY Save	2	03	06 00	62 D7	01 00	15 20	
	3	03	06 00	92 D7	01 00	15 20	
	4	03	06 00	02 D6	01 00	15 20	
ASPECT	4:3	03	06 00	9E D0	01 00	08 20	
	16:9	03	06 00	0E D1	01 00	08 20	
	16:10	03	06 00	3E D6	01 00	08 20	
OVER SCAN	14:9	03	06 00	CE D6	01 00	08 20	
	(*) NATIVE	03	06 00	5E D7	01 00	08 20	
	NORMAL	03	06 00	5E DD	01 00	08 20	
OVER SCAN Reset	Get	03	06 00	AD D0	02 00	08 20	
	Increment	03	06 00	91 70	02 00	09 22	
	Decrement	03	06 00	F7 70	04 00	09 22	
OVER SCAN	Execute	03	06 00	26 71	05 00	09 22	
	Get	03	06 00	EC D9	06 00	27 70	
V POSITION	Increment	03	06 00	0D 83	02 00	00 21	
	Decrement	03	06 00	6B 83	04 00	00 21	
V POSITION Reset	Execute	03	06 00	BA 82	05 00	00 21	
	Execute	03	06 00	E0 D2	06 00	02 70	

(\*) only for CP-WX4021N

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

Names	Operation Type	Header			Command Data		
		BE EF	GRC	Action	Type	Setting code	
PERFECT FIT Left Bottom -H	Get	03	01 88	02 00	25 21	00 00	
	Increment	03	67 88	04 00	25 21	00 00	
PERFECT FIT Left Bottom -V	Get	03	06 00	05 00	25 21	00 00	
	Increment	03	45 88	02 00	26 21	00 00	
PERFECT FIT Right Bottom -H	Get	03	06 00	05 00	26 21	00 00	
	Increment	03	06 00	05 00	27 21	00 00	
PERFECT FIT Right Bottom -V	Get	03	06 00	05 00	27 21	00 00	
	Increment	03	06 00	05 00	28 21	00 00	
PERFECT FIT Reset	Execute	03	06 00	06 00	29 21	00 00	
	Get	03	31 97	02 00	41 21	00 00	
PERFECT FIT Left Side Distortion	Increment	03	06 00	04 00	41 21	00 00	
	Decrement	03	06 00	05 00	41 21	00 00	
PERFECT FIT Right Side Distortion	Increment	03	06 00	04 00	42 21	00 00	
	Decrement	03	06 00	05 00	42 21	00 00	
PERFECT FIT Distortion Position V	Increment	03	06 00	04 00	43 21	00 00	
	Decrement	03	06 00	05 00	43 21	00 00	
PERFECT FIT Top Side Distortion	Increment	03	06 00	04 00	44 21	00 00	
	Decrement	03	06 00	05 00	44 21	00 00	
PERFECT FIT Bottom Side Distortion	Increment	03	06 00	04 00	45 21	00 00	
	Decrement	03	06 00	05 00	45 21	00 00	
PERFECT FIT Distortion Position H	Increment	03	06 00	04 00	46 21	00 00	
	Decrement	03	06 00	05 00	46 21	00 00	
PERFECT FIT All Sides Reset	Execute	03	06 00	06 00	47 21	00 00	
	Set	03	06 00	01 00	10 33	00 00	
AUTO ECO MODE	Get	03	06 00	08 27	10 33	00 00	
	Normal	03	06 00	08 23	10 33	00 00	
ECO MODE	Set	03	06 00	08 22	10 33	01 00	
	Get	03	06 00	08 23	10 33	00 00	
MIRROR	Set	03	06 00	07 D3	01 30	01 00	
	H-INVERT	03	06 00	07 D3	01 30	02 00	
STANDBY MODE	Set	03	06 00	04 D2	01 30	00 00	
	Get	03	06 00	04 D2	01 30	00 00	

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

Names	Operation Type	Header			Command Data		
		BE EF	GRC	Action	Type	Setting code	
HDMI FORMAT	Set	03	BA 77	01 00	13 22	00 00	
	Get	03	2A 76	01 00	13 22	01 00	
HDMI RANGE	Set	03	06 00	01 00	13 22	02 00	
	Get	03	89 77	02 00	13 22	00 00	
COMPUTER IN1	Set	03	06 00	01 00	22 20	00 00	
	Get	03	06 00	01 00	22 20	01 00	
COMPUTER IN2	Set	03	06 00	01 00	22 20	02 00	
	Get	03	06 00	01 00	22 20	00 00	
FRAME LOCK - COMPUTER IN1	Set	03	06 00	01 00	10 20	03 00	
	Get	03	06 00	01 00	10 20	02 00	
FRAME LOCK - COMPUTER IN2	Set	03	06 00	01 00	11 20	03 00	
	Get	03	06 00	01 00	11 20	02 00	
FRAME LOCK - HDMI	Set	03	06 00	01 00	50 30	00 00	
	Get	03	06 00	01 00	50 30	01 00	
KEYSTONE V EXECUTE	Set	03	06 00	01 00	50 30	00 00	
	Get	03	06 00	01 00	50 30	00 00	
KEYSTONE V Reset	Set	03	06 00	01 00	54 30	00 00	
	Get	03	06 00	01 00	54 30	00 00	
KEYSTONE H	Set	03	06 00	01 00	53 30	00 00	
	Get	03	06 00	01 00	53 30	00 00	
PERFECT FIT	Set	03	06 00	06 00	20 70	00 00	
	Get	03	06 00	06 00	20 70	00 00	
PERFECT FIT Left Top -H	Set	03	06 00	06 00	20 21	00 00	
	Get	03	06 00	06 00	20 21	00 00	
PERFECT FIT Left Top -V	Set	03	06 00	06 00	22 21	00 00	
	Get	03	06 00	06 00	22 21	00 00	
PERFECT FIT Right Top -H	Set	03	06 00	06 00	23 21	00 00	
	Get	03	06 00	06 00	23 21	00 00	
PERFECT FIT Right Top -V	Set	03	06 00	06 00	24 21	00 00	
	Get	03	06 00	06 00	24 21	00 00	

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

Names	Operation Type	Header			Command Data	
		BE EF	GRC	Action	Type	Setting code
VOLUME - VIDEO	Get	03	31 CD	02 00	61 20	00 00
	Increment	03	06 00	57 CD	04 00	61 20
	Decrement	03	06 00	86 CC	05 00	61 20
VOLUME - HDMI	Get	03	06 00	89 CC	02 00	63 20
	Increment	03	06 00	EF CC	04 00	63 20
	Decrement	03	06 00	3E CD	05 00	63 20
VOLUME - LAN	Get	03	06 00	E9 CE	02 00	6B 20
	Increment	03	06 00	8F CE	04 00	6B 20
	Decrement	03	06 00	5E CF	05 00	6B 20
VOLUME - USB TYPE A	Get	03	06 00	45 CC	02 00	66 20
	Increment	03	06 00	23 CC	04 00	66 20
	Decrement	03	06 00	F2 CD	05 00	66 20
VOLUME - USB TYPE B	Get	03	06 00	9D CF	02 00	6C 20
	Increment	03	06 00	FB CF	04 00	6C 20
	Decrement	03	06 00	2A CE	05 00	6C 20
VOLUME - STANDBY	Get	03	06 00	D9 CF	02 00	6F 20
	Increment	03	06 00	BF CF	04 00	6F 20
	Decrement	03	06 00	6E CE	05 00	6F 20
MUTE	Set OFF	03	06 00	46 D3	01 00	02 20
	Set ON	03	06 00	D6 D2	01 00	02 20
	Get	03	06 00	75 D3	02 00	02 20
SPEAKER	Set ON	03	06 00	FE D4	01 00	1C 20
	Set OFF	03	06 00	6E D5	01 00	1C 20
	Get	03	06 00	5D D5	02 00	1C 20
AUDIO SOURCE - COMPUTER IN1	AUDIO IN1	03	06 00	6E DC	01 00	30 20
	AUDIO IN2	03	06 00	9E DC	01 00	30 20
	AUDIO IN3	03	06 00	0E DD	01 00	30 20
AUDIO SOURCE - COMPUTER IN2	Set OFF	03	06 00	FE DD	01 00	30 20
	Set AUDIO IN1	03	06 00	CD DD	02 00	30 20
	Set AUDIO IN2	03	06 00	5E DD	01 00	34 20
AUDIO SOURCE - COMPUTER IN3	Set AUDIO IN2	03	06 00	AE DD	01 00	34 20
	Set AUDIO IN3	03	06 00	3E DC	01 00	34 20
	Set OFF	03	06 00	CE DC	01 00	34 20
AUDIO SOURCE LAN	Set OFF	03	06 00	FD DC	02 00	34 20
	Set AUDIO1	03	06 00	DA DF	01 00	3B 20
	Set AUDIO2	03	06 00	4A DE	01 00	3B 20
AUDIO SOURCE - USB TYPE A	Set AUDIO3	03	06 00	BA DE	01 00	3B 20
	Set OFF	03	06 00	2A DF	01 00	3B 20
	Set AUDIO3	03	06 00	E9 DF	02 00	3B 20
AUDIO SOURCE USB TYPE B	Set OFF	03	06 00	76 DD	01 00	36 20
	Set AUDIO1	03	06 00	E6 DC	01 00	36 20
	Set AUDIO2	03	06 00	16 DC	01 00	36 20
AUDIO SOURCE USB TYPE B	Set AUDIO3	03	06 00	86 DD	01 00	36 20
	Set OFF	03	06 00	45 DD	02 00	36 20
	Set AUDIO3	03	06 00	AE DE	01 00	3C 20
AUDIO SOURCE USB TYPE B	Set AUDIO1	03	06 00	3E DF	01 00	3C 20
	Set AUDIO2	03	06 00	CE DF	01 00	3C 20
	Set AUDIO3	03	06 00	5E DE	01 00	3C 20
Set Get	03	06 00	9D DE	02 00	3C 20	

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

Names	Operation Type	Header			Command Data	
		BE EF	GRC	Action	Type	Setting code
MONITOR OUT - COMPUTER IN1	Set COMPUTER IN1	03	3E F4	01 00	B0 20	00 00
	Set OFF	03	06 00	CE B5	01 00	B0 20
	Get	03	06 00	0D F4	02 00	B0 20
MONITOR OUT - COMPUTER IN2	Set COMPUTER IN2	03	06 00	CE F7	01 00	B4 20
	Set OFF	03	06 00	FE B4	01 00	B4 20
	Get	03	06 00	3D F5	02 00	B4 20
MONITOR OUT - COMPONENT	Set COMPUTER IN1	03	06 00	F2 F4	01 00	B5 20
	Set COMPUTER IN2	03	06 00	32 F6	01 00	B5 20
	Set OFF	03	06 00	02 B5	01 00	B5 20
MONITOR OUT - S-VIDEO	Set Get	03	06 00	C1 F4	02 00	B5 20
	Set COMPUTER IN1	03	06 00	86 F5	01 00	B2 20
	Set COMPUTER IN2	03	06 00	46 F7	01 00	B2 20
MONITOR OUT - VIDEO	Set OFF	03	06 00	76 B4	01 00	B2 20
	Set Get	03	06 00	B5 F5	02 00	B2 20
	Set COMPUTER IN1	03	06 00	C2 F5	01 00	B1 20
MONITOR OUT - HDMI	Set COMPUTER IN2	03	06 00	02 F7	01 00	B1 20
	Set OFF	03	06 00	32 B4	01 00	B1 20
	Set Get	03	06 00	F1 F5	02 00	B1 20
MONITOR OUT - LAN	Set COMPUTER1	03	06 00	7A F4	01 00	B3 20
	Set COMPUTER2	03	06 00	BA F6	01 00	B3 20
	Set OFF	03	06 00	8A B5	01 00	B3 20
MONITOR OUT - USB TYPE A	Set Get	03	06 00	49 F4	02 00	B3 20
	Set COMPUTER1	03	06 00	1A F6	01 00	BB 20
	Set COMPUTER2	03	06 00	DA F4	01 00	BB 20
MONITOR OUT - USB TYPE B	Set OFF	03	06 00	EA B7	01 00	BB 20
	Set Get	03	06 00	29 F6	02 00	BB 20
	Set COMPUTER1	03	06 00	B6 F4	01 00	B6 20
MONITOR OUT - USB TYPE B	Set COMPUTER2	03	06 00	76 F6	01 00	B6 20
	Set OFF	03	06 00	46 B5	01 00	B6 20
	Set Get	03	06 00	85 F4	02 00	B6 20
MONITOR OUT - STANDBY	Set COMPUTER1	03	06 00	6E F7	01 00	BC 20
	Set COMPUTER2	03	06 00	AE F5	01 00	BC 20
	Set OFF	03	06 00	9E B6	01 00	BC 20
VOLUME - COMPUTER IN1	Set Get	03	06 00	5D F7	02 00	BC 20
	Set COMPUTER IN1	03	06 00	2A F7	01 00	BF 20
	Set COMPUTER IN2	03	06 00	EA F5	01 00	BF 20
VOLUME - COMPUTER IN2	Set OFF	03	06 00	DA B6	01 00	BF 20
	Set Get	03	06 00	19 F7	02 00	60 20
	Set Increment	03	06 00	CD CC	02 00	60 20
VOLUME - COMPUTER IN2	Set Decrement	03	06 00	AB CC	04 00	60 20
	Set Get	03	06 00	7A DD	05 00	60 20
	Set Decrement	03	06 00	FD CD	02 00	64 20
VOLUME - COMPONENT	Set Increment	03	06 00	9B CD	04 00	64 20
	Set Decrement	03	06 00	4A CC	05 00	64 20
	Set Get	03	06 00	01 CC	02 00	65 20
VOLUME - S-VIDEO	Set Increment	03	06 00	67 CC	04 00	65 20
	Set Decrement	03	06 00	B6 CD	05 00	65 20
	Set Get	03	06 00	75 CD	02 00	62 20
Set Increment	03	06 00	13 CD	04 00	62 20	
Set Decrement	03	06 00	C2 CC	05 00	62 20	

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

Names	Operation Type	Header			Command Data			
		BE EF	GRC	Action	Type	Setting code		
LANGUAGE	Set	POLSKI	03	06 00	97 D7	01 00	05 30	0E 00
		TURKCE	03	06 00	07 D6	01 00	05 30	0F 00
		DANSK	03	06 00	A7 DF	01 00	05 30	11 00
		ČESKY	03	06 00	57 DF	01 00	05 30	12 00
		MAGYAR	03	06 00	C7 DE	01 00	05 30	13 00
		ROMÂNĂ	03	06 00	F7 DC	01 00	05 30	14 00
		SLOVENSKI	03	06 00	67 DD	01 00	05 30	15 00
		HRVATSKI	03	06 00	97 DD	01 00	05 30	16 00
		EAHNIKKA	03	06 00	07 DC	01 00	05 30	17 00
		LIETUVIŲ	03	06 00	F7 D9	01 00	05 30	18 00
		EESTI	03	06 00	67 D8	01 00	05 30	19 00
		LATVIEŠU	03	06 00	97 D8	01 00	05 30	1A 00
		ᲞᲚᲗ	03	06 00	07 D9	01 00	05 30	1B 00
		مغربية	03	06 00	37 DB	01 00	05 30	1C 00
PORTUGUES BRA	03	06 00	A7 DA	01 00	05 30	1D 00		
<b>(NOTE)</b> Not all of the languages in this table are supported.								
MENU POSITION H	Increment	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
MENU POSITION H Reset	Decrement	BE EF	03	06 00	B3 D6	05 00	15 30	00 00
		BE EF	03	06 00	DC C6	06 00	43 70	00 00
MENU POSITION V	Increment	BE EF	03	06 00	40 D7	02 00	16 30	00 00
		BE EF	03	06 00	26 D7	04 00	16 30	00 00
MENU POSITION V Reset	Decrement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00
		BE EF	03	06 00	A8 C7	06 00	44 70	00 00
BLANK	MyScreen ORIGINAL	BE EF	03	06 00	FB CA	01 00	00 30	20 00
		BE EF	03	06 00	FB E2	01 00	00 30	40 00
	Set	BE EF	03	06 00	CB D3	01 00	00 30	03 00
		BE EF	03	06 00	6B D0	01 00	00 30	05 00
BLANK On/Off	Set	BE EF	03	06 00	9B D0	01 00	00 30	06 00
		BE EF	03	06 00	08 D3	02 00	00 30	00 00
	Get	BE EF	03	06 00	FB D8	01 00	20 30	00 00
		BE EF	03	06 00	6B D9	01 00	20 30	01 00
START UP	MyScreen ORIGINAL	BE EF	03	06 00	C8 D8	02 00	20 30	00 00
		BE EF	03	06 00	CB CB	01 00	04 30	20 00
	Set	BE EF	03	06 00	08 D2	01 00	04 30	00 00
		BE EF	03	06 00	9B D3	01 00	04 30	01 00
MyScreen Lock	Set	BE EF	03	06 00	38 D2	02 00	04 30	00 00
		BE EF	03	06 00	3B EF	01 00	C0 30	00 00
	Get	BE EF	03	06 00	AB EE	01 00	C0 30	01 00
		BE EF	03	06 00	08 EF	02 00	C0 30	00 00
MESSAGE	Set	BE EF	03	06 00	8F D6	01 00	17 30	00 00
		BE EF	03	06 00	1F D7	01 00	17 30	01 00
MESSAGE	Get	BE EF	03	06 00	BC D6	02 00	17 30	00 00
		BE EF	03	06 00	BC D6	02 00	17 30	00 00

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

Names	Operation Type	Header			Command Data			
		BE EF	GRC	Action	Type	Setting code		
AUDIO SOURCE - HDMI	Set	OFF	03	06 00	BA DD	01 00	33 20	00 00
		AUDIO1	03	06 00	2A DC	01 00	33 20	01 00
		AUDIO2	03	06 00	DA DC	01 00	33 20	02 00
		AUDIO3	03	06 00	4A DC	01 00	33 20	03 00
AUDIO SOURCE - COMPONENT	Set	AUDIO_HDMI	03	06 00	7A C4	01 00	33 20	20 00
		Get	03	06 00	89 DD	02 00	33 20	00 00
		AUDIO IN1	03	06 00	A2 DC	01 00	35 20	01 00
		AUDIO IN2	03	06 00	52 DC	01 00	35 20	02 00
AUDIO SOURCE - S-VIDEO	Set	AUDIO IN3	03	06 00	C2 DD	01 00	35 20	03 00
		Get	03	06 00	01 DD	02 00	35 20	00 00
		AUDIO IN1	03	06 00	D6 DD	01 00	32 20	01 00
		AUDIO IN2	03	06 00	26 DD	01 00	32 20	02 00
AUDIO SOURCE - VIDEO	Set	AUDIO IN3	03	06 00	B6 DC	01 00	32 20	03 00
		Get	03	06 00	46 DC	01 00	32 20	00 00
		AUDIO IN1	03	06 00	76 DC	02 00	32 20	00 00
		AUDIO IN2	03	06 00	92 DD	01 00	31 20	01 00
HDMI AUDIO	Set	AUDIO IN3	03	06 00	F2 DC	01 00	31 20	03 00
		Get	03	06 00	02 DC	01 00	31 20	00 00
		AUDIO IN1	03	06 00	31 DC	02 00	31 20	00 00
		AUDIO IN2	03	06 00	7A DF	01 00	3F 20	01 00
MIC LEVEL	Set	AUDIO IN3	03	06 00	1A DE	01 00	3F 20	03 00
		Get	03	06 00	EA DE	01 00	3F 20	00 00
		AUDIO IN1	03	06 00	D9 DE	02 00	3F 20	00 00
		AUDIO IN2	03	06 00	AE C6	01 00	40 20	01 00
MIC VOLUME	Set	1	03	06 00	5E C6	01 00	40 20	02 00
		2	03	06 00	0D C7	02 00	40 20	00 00
		Get	03	06 00	02 F1	01 00	A1 20	00 00
		LOW	03	06 00	31 F1	02 00	A1 20	00 00
LANGUAGE	Set	HIGH	03	06 00	75 F1	02 00	A2 20	00 00
		Get	03	06 00	02 F1	01 00	A1 20	00 00
		Increment	03	06 00	92 F0	01 00	A1 20	01 00
		Decrement	03	06 00	C2 F0	05 00	A2 20	00 00
LANGUAGE	Set	ENGLISH	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	03	06 00	97 D2	01 00	05 30	02 00
		ESPAÑOL	03	06 00	07 D3	01 00	05 30	03 00
		ITALIANO	03	06 00	37 D1	01 00	05 30	04 00
		NORSK	03	06 00	A7 D0	01 00	05 30	05 00
		NEDERLANDS	03	06 00	57 D0	01 00	05 30	06 00
		PORTUGUES	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	03	06 00	37 D4	01 00	05 30	08 00
		简体中文	03	06 00	A7 D5	01 00	05 30	09 00
		繁體中文	03	06 00	37 DE	01 00	05 30	10 00
		한국어	03	06 00	57 D5	01 00	05 30	0A 00
SVENSKA	03	06 00	C7 D4	01 00	05 30	0B 00		
РУССКИЙ	03	06 00	F7 D6	01 00	05 30	0C 00		
SUOMI	03	06 00	67 D7	01 00	05 30	0D 00		
<b>(NOTE)</b> Not all of the languages in this table are supported.								

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

Names	Operation Type	Header		Command Data	
		BE EF	GRC	Action	Setting code
MY BUTTON-1	COMPUTER IN1	BE EF 03	3A 33	01 00	00 36
	COMPUTER IN2	BE EF 03	FA 31	01 00	00 36
	LAN	BE EF 03	0A 34	01 00	00 36
	USB TYPE A	BE EF 03	0A 30	01 00	00 36
	USB TYPE B	BE EF 03	3A 36	01 00	00 36
	HDMI	BE EF 03	CA 33	01 00	00 36
	COMPONENT	BE EF 03	6A 30	01 00	00 36
	S-VIDEO	BE EF 03	5A 32	01 00	00 36
	VIDEO	BE EF 03	AA 32	01 00	00 36
	SLIDESHOW	BE EF 03	9A 2B	01 00	00 36
	MY IMAGE	BE EF 03	5A 3D	01 00	00 36
	MY IMAGE	BE EF 03	5A 3D	01 00	00 36
	MESSAGE	BE EF 03	AA 29	01 00	00 36
	INFORMATION	BE EF 03	FA 3E	01 00	00 36
AUTO KEYSTONE V	BE EF 03	6A 3F	01 00	00 36	
MY MEMORY	BE EF 03	9A 3F	01 00	00 36	
ACTIVE IRIS	BE EF 03	AA 3D	01 00	00 36	
PICTURE MODE	BE EF 03	0A 3E	01 00	00 36	
PICTURE MODE	BE EF 03	0A 3E	01 00	00 36	
FILTER RESET	BE EF 03	3A 3C	01 00	00 36	
AV MUTE	BE EF 03	AA 38	01 00	00 36	
TEMPLATE	BE EF 03	CA 39	01 00	00 36	
TEMPLATE	BE EF 03	CA 39	01 00	00 36	
RESOLUTION	BE EF 03	9A 3A	01 00	00 36	
MIC VOLUME	BE EF 03	9A 24	01 00	00 36	
MIC VOLUME	BE EF 03	9A 24	01 00	00 36	
ECO MODE	BE EF 03	0A 25	01 00	00 36	
ECO MODE	BE EF 03	0A 25	01 00	00 36	
Get	BE EF 03	06 00	09 33	02 00	00 36
COMPUTER IN1	BE EF 03	06 00	C6 32	01 00	01 36
COMPUTER IN2	BE EF 03	06 00	06 30	01 00	01 36
LAN	BE EF 03	06 00	F6 35	01 00	01 36
USB TYPE A	BE EF 03	06 00	66 31	01 00	01 36
USB TYPE B	BE EF 03	06 00	C6 37	01 00	01 36
HDMI	BE EF 03	06 00	36 32	01 00	01 36
COMPONENT	BE EF 03	06 00	96 31	01 00	01 36
S-VIDEO	BE EF 03	06 00	A6 33	01 00	01 36
VIDEO	BE EF 03	06 00	56 33	01 00	01 36
SLIDESHOW	BE EF 03	06 00	66 2A	01 00	01 36
MY IMAGE	BE EF 03	06 00	A6 3C	01 00	01 36
MESSAGE	BE EF 03	06 00	56 28	01 00	01 36
INFORMATION	BE EF 03	06 00	06 3F	01 00	01 36
AUTO KEYSTONE V	BE EF 03	06 00	96 3E	01 00	01 36
MY MEMORY	BE EF 03	06 00	66 3E	01 00	01 36
ACTIVE IRIS	BE EF 03	06 00	56 3C	01 00	01 36
PICTURE MODE	BE EF 03	06 00	F6 3F	01 00	01 36
PICTURE MODE	BE EF 03	06 00	F6 3F	01 00	01 36
FILTER RESET	BE EF 03	06 00	C6 3D	01 00	01 36
AV MUTE	BE EF 03	06 00	96 39	01 00	01 36
TEMPLATE	BE EF 03	06 00	36 38	01 00	01 36
RESOLUTION	BE EF 03	06 00	66 3B	01 00	01 36
MIC VOLUME	BE EF 03	06 00	66 25	01 00	01 36
MIC VOLUME	BE EF 03	06 00	F6 24	01 00	01 36
ECO MODE	BE EF 03	06 00	F5 32	02 00	01 36
Get	BE EF 03	06 00	F5 32	02 00	01 36

(continued on next page)

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

Names	Operation Type	Header		Command Data		
		BE EF	GRC	Action	Setting code	
TEMPLATE	TEST PATTERN	BE EF 03	43 D9	01 00	22 30	
	DOT-LINE1	BE EF 03	D3 D8	01 00	22 30	
	DOT-LINE2	BE EF 03	06 00	23 D8	01 00	22 30
	DOT-LINE3	BE EF 03	06 00	B3 D9	01 00	22 30
	DOT-LINE4	BE EF 03	06 00	83 DB	01 00	22 30
	CIRCLE 1	BE EF 03	06 00	13 DA	01 00	22 30
	CIRCLE 2	BE EF 03	06 00	E3 DA	01 00	22 30
	MAP 1	BE EF 03	06 00	83 D4	01 00	22 30
	MAP 2	BE EF 03	06 00	13 D5	01 00	22 30
	STACK	BE EF 03	06 00	83 C0	01 00	22 30
	Get	BE EF 03	06 00	70 D9	02 00	22 30
	Set	BE EF 03	06 00	BF D8	01 00	23 30
	Set	BE EF 03	06 00	2F D9	01 00	23 30
	Set	BE EF 03	06 00	8C D8	02 00	23 30
Set	BE EF 03	06 00	FA 82	01 00	00 37	
Set	BE EF 03	06 00	6A 63	01 00	00 37	
Set	BE EF 03	06 00	9A 63	01 00	00 37	
Set	BE EF 03	06 00	C9 62	02 00	00 37	
Set	CAPTIONS	BE EF 03	06 00	06 63	01 00	01 37
Set	TEXT	BE EF 03	06 00	96 62	01 00	01 37
Set	1	BE EF 03	06 00	35 63	02 00	01 37
Set	2	BE EF 03	06 00	D2 62	01 00	02 37
Set	3	BE EF 03	06 00	22 62	01 00	02 37
Set	4	BE EF 03	06 00	B2 63	01 00	02 37
Set	Get	BE EF 03	06 00	82 61	01 00	02 37
Set	OFF	BE EF 03	06 00	B6 D6	01 00	16 20
Set	ON	BE EF 03	06 00	26 D7	01 00	16 20
Set	Get	BE EF 03	06 00	85 D6	02 00	16 20
Set	OFF	BE EF 03	06 00	EA D1	01 00	0F 20
Set	ON	BE EF 03	06 00	7A D0	01 00	0F 20
Set	Get	BE EF 03	06 00	D9 D1	02 00	0F 20
Set	OFF	BE EF 03	06 00	3B 89	01 00	20 31
Set	ON	BE EF 03	06 00	AB 88	01 00	20 31
Set	Get	BE EF 03	06 00	08 89	02 00	20 31
Set	Increment	BE EF 03	06 00	08 86	02 00	10 31
Set	Decrement	BE EF 03	06 00	6E 86	04 00	10 31
Set	MOUSE	BE EF 03	06 00	BF 87	05 00	10 31
Set	USB DISPLAY	BE EF 03	06 00	FF 23	01 00	50 26
Set	Get	BE EF 03	06 00	6F 22	01 00	50 26
Set	Get	BE EF 03	06 00	CC 23	02 00	50 26
Set	Get	BE EF 03	06 00	C2 FF	02 00	90 10
LAMP TIME	Execute	BE EF 03	06 00	58 DC	06 00	30 70
LAMP TIME Reset	Execute	BE EF 03	06 00	C2 F0	02 00	A0 10
FILTER TIME	Execute	BE EF 03	06 00	98 C6	06 00	40 70
FILTER TIME Reset	Execute	BE EF 03	06 00	98 C6	06 00	40 70

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

Names	Operation Type	Header			Command Data			
		BE EF	03	06 00	CR	Action	Type	Setting code
MY SOURCE	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
	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
	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
	Get	BE EF	03	06 00	C9 38	02 00	20 36	00 00
	Get	BE EF	03	06 00	C8 D7	02 00	10 30	00 00
	Increment	BE EF	03	06 00	AE D7	04 00	10 30	00 00
Decrement	BE EF	03	06 00	7F D6	05 00	10 30	00 00	
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	
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	
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	
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	Execute	BE EF	03	06 00	71 C3	06 00	01 35	00 00
MY IMAGE-1 Delete	Execute	BE EF	03	06 00	35 C3	06 00	02 35	00 00
MY IMAGE-2 Delete	Execute	BE EF	03	06 00	C9 C2	06 00	03 35	00 00
MY IMAGE-3 Delete	Execute	BE EF	03	06 00	BD C3	06 00	04 35	00 00
MY IMAGE-4 Delete	Execute	BE EF	03	06 00				