Projector



8120WI/8121WI User's Manual (detailed) Network Guide



Thank you for purchasing this product.

This manual is intended to explain only the network function. For proper use of this product, please refer to this manual and the other manuals for this product.

 \triangle **WARNING** \triangleright Before using this product, be sure to read all manuals for this product. After reading them, store them in a safe place for future reference.

Features

This projector has the network function that brings you the following main features.

- ✓ Network Presentation : allows the projector to project computer images transmitted through a network. (♀ 74)
- ✓ Web Control : allows you to monitor and control the projector through a network from a computer. (□36)
- ✓ **My Image** : allows the projector to store up to four still images and project them. (□78)
- ✓ Messenger : allows the projector to display text sent from a computer through a network. ($\square 80$)
- ✓ Network Bridge : allows you to control an external device through the projector from a computer. (□83)

NOTE • The information in this manual is subject to change without notice. • The illustrations in this manual are for illustrative purposes. They may differ slightly from your projector.

• The manufacturer assumes no responsibility for any errors that may appear in this manual.

• The reproduction, transfer or copy of all or any part of this document is not permitted without express written consent.

Note: The Dukane models described in this document are manufactured by Hitachi and use the same firmware, software programs, control code, and accessory parts. The equivalent Dukane to Hitachi models are; 8120WI (CP-TW2503), and 8121WI (CP-TW3003).

Contents

Caution	4
1. Network Function	5
1.1 Web Control	
1.2 Network Presentation .	
1.3 My Image Function	
1.4 Messenger Function	
1.5 Network Bridge Function	
1.6 Other Functions	
1.6.1 E-mail Alerts 1.6.2 Projector Management using SNMP	
1.6.3 Event Scheduling	
1.6.4 Command Control via the Network	
2. Connection to the network	
2.1 System requirements	
2.2 Connection via wired LAN	
2.3 Connection setup of Wired LAN	
2.4 Connection via wireless LAN	
2.4.1 Connection in Ad Hoc Mode	
2.4.2 Connection in Infrastructure Mode	
2.5 Applications	
2.6 NETWORK Menu	20
3. Web Control	36
3.1 Projector Web Control	. 38
3.1.1 Login	38
3.1.2 Network Information	39
3.1.3 Network Settings	40
3.1.4 Port Settings	
3.1.5 Mail Settings	
3.1.6 Alert Settings	
3.1.7 Schedule Settings 3.1.8 Date/Time Settings	
3.1.9 Security Settings	
3.1.10 Projector Control	
3.1.11 Remote Control	
3.1.12 Projector Status	
3.1.13 Network Restart	63
3.1.14 Connection Test	64

	Ĥ
3.2 Crestron e-Control [®]	
3.2.1 Main window	
3.2.2 Tools window	
3.2.3 Info window 3.2.4 Help Desk window	
3.2.5 Emergency Alert	
4. Network Presentation	
4.1 Outline	
4.2 Display Mode	
4.2.1 Single PC mode	
4.2.2 Multi PC mode	
4.3 Multi Projector Mode .	
4.4 Moderator Control Mode .	
4.5 Port Number	77
5. My Image Function	
6. Messenger Function	80
6.1 Outline	80
6.2 Supported Languages	
6.3 Display Style	
7. Network Bridge Function	
7.1 Connecting devices	
7.2 Communication setup	
7.3 Communication port	
7.4 Transmission method	
7.4.1 HALF-DUPLEX	
7.4.2 FULL-DUPLEX	
8. Other Functions	87
8.1 E-mail Alerts	87
8.2 Projector Management using SNMP	
8.3 Event Scheduling	
8.4 Command Control via the Network	
8.5 Crestron RoomView [®]	
9. Troubleshooting	
10. Warranty and after-sales service	
To. Warranty and alter-sales service	

Caution

To use the wireless network function of this projector, the designated USB wireless adapter sold as an option is required. For precautions according to the standards and laws, refer to the documents that come with the adapter.

[Restriction on plugging and unplugging the USB wireless adapter]

Before you insert or pull out the USB wireless adapter from the projector, turn off the power of the projector and pull out the power cord's plug from the outlet. Do not touch the USB wireless adapter that is connected to the projector while the projector is receiving AC power.

Do not use any extension cable or device when connecting the adapter to the projector.

[Security precautions when using wireless LAN]

It is recommended that security settings, such as SSID and ENCRYPTION, are specified when using wireless LAN communication. If the security settings are not specified, the contents may be intercepted or it may cause unauthorized access to the system. For details on wireless LAN security settings, refer to **3.1 Projector Web Control**.

► The optional IEEE802.11b/g/n USB wireless adapter uses the 2.4GHz radio frequency band. You do not need a radio license to use the adapter, but you should be aware of the following:

- DO NOT USE NEAR THE FOLLOWING!
- Microwave ovens
- Industrial, scientific or medical devices
- Designated low power radio stations
- Premises radio stations

Using the USB wireless adapter near the above may cause radio interference, which would result in a decrease in transmission speed or interruption, and even lead to malfunctioning of devices such as pacemakers.

- Depending on the location where the USB wireless adapter is used, radio wave interference may occur, which may result in a decrease in transmission speed or interruption in communication. In particular, please be aware that using the USB wireless adapter at locations where there is reinforced steel, other types of metals or concrete is likely to cause radio wave interference.
- Available Channels

The USB wireless adapter uses the 2.4GHz radio frequency band, but depending on the country or region you are in, the channels that you can use might be limited. Please consult your dealer for information on the usable channels.

• Bringing the optional USB wireless adapter out of the country or region you reside in and using it there could lead to a violation of the radio laws of that country or region.

1. Network Function

This chapter describes the outline of network function.

1.1 Web Control

Connecting the projector and the computer via the network, remote control and status monitoring of the projector can be performed by Web browser. Two types of interface, "Projector Web Control" and "Crestron e-Control", are available for this projector. ($\square 36$)



Projector Web Control

Crestron e-Control

1.2 Network Presentation

The projector can display or play back the computer screen images and audio data that are transmitted through the network.

To use Network Presentation, an exclusive application, "LiveViewer" is required. The following application is required to use Network Presentation.

OS	Application		
Windows	LiveViewer		
Mac OSX	LiveViewer		
iOS(iPhone/iPad)	Projector Quick Connection		



1.3 My Image Function

The projector can display still images transferred via the network.

It is possible to allocate up to 4 image files.

MY IMAGE transmission requires an exclusive application for your computer. Use the application to transfer the image data.



1.4 Messenger Function

The projector can display text data transferred via the network on the screen and play back audio data inside the projector.

It is possible to store up to 12 text data.



1.5 Network Bridge Function

This projector is equipped with the NETWORK BRIDGE function to perform mutual conversion of a network protocol and a serial interface.

By making use of the NETWORK BRIDGE function, a computer connected to the projector via wireless or wired LAN is able to control an external device via RS-232C communication using the projector as a network terminal.



1.6 Other Functions

1.6.1 E-mail Alerts

The projector can automatically send an alert message to the specified e-mail addresses when the projector detects a certain condition that is requiring maintenance or detected an error. $(\square 87)$

1.6.2 Projector Management using SNMP

The SNMP (Simple Network Management Protocol) enables to manage the projector information, which is a failure or warning status, from the computer on the network. The SNMP management software will be required on the computer to use this function. (

1.6.3 Event Scheduling

The scheduling function enables to setup scheduled events including power on / power off. It enables to be "self-management" projector. The schedule can be set in Projector Web Control or OPTION-SCHEDULE menu in the projector. (

1.6.4 Command Control via the Network

You can configure and control the projector via the network using RS-232C commands. (1995)

2. Connection to the network

2.1 System requirements

The following equipments are required to connect the projector to your computer through the network.

- **Common** The projector: 1 unit, Computer: 1 or more sets
- Connecting device for the projector and the computer
 - 1) For the wired connection *1
 - LAN cable (CAT-5e or greater): 1 piece
 - 2) For the wireless connection *2
 - Projector side

IEEE802.11b/g/n USB wireless adapter (option : USB-WL-11N): 1 unit *3 - Computer side

IEEE802.11b/g/n wireless LAN equipment: 1 unit for each computer *4

- *1: The system for using the network function of the projector requires communication environment conforming to 100Base-TX or 10Base-T.
- *2: An access point is required when the wireless LAN connection is used as Infrastructure mode.
- *3: Available encryption methods are as follows. This product cannot be connected to the wireless network using other encryption method.

WPA2-PSK (AES) WPA2-PSK (TKIP) WPA-PSK (AES) WPA-PSK (TKIP) WEP 128bit WEP 64bit

- *4: Depending on the type of wireless network device and computer you are using, the projector may not be able to communicate properly with your computer, even if the computer is equipped with a built-in wireless LAN function.
 To eliminate communication problems, use a Wi-Fi certified wireless network device.
- Web browser

Web browser is required to be installed in your computer to use Web control.

Application

Exclusive applications are required to be installed in your computer to use Network Presentation, My Image and Messenger. Refer to ($\square 18$).

For Mac users: Mac OS does not support some applications. Refer to System Requirements for Applications ($\square 18$) first before setting up the connection.

NOTE • The network function is not available when STANDBY MODE is set to SAVING and the projector is in standby mode. Connect the projector to the network after setting STANDBY MODE to NORMAL. (LESETUP menu in the Operating Guide)

2.2 Connection via wired LAN

The connection via wired LAN is available. Set wired LAN for the projector by following the instructions of your network administrator when connecting to the existing network.



2.3 Connection setup of Wired LAN

- 1) Connect the projector to the computer via a hub with a LAN cable (CAT-5e or higher).
- 2) Press the **MENU** button on the remote control or the control panel of the projector.

The MENU you last used will appear.

Use the cursor button to select the following.



EASY MENU > ADVANCED MENU > NETWORK > WIRED SETUP

3) Set the following items in WIRED SETUP.

· DHCP

- · IP ADDRESS
- · SUBNET MASK
- · DEFAULT GATEWAY
- · DNS SERVER



As for setting an IP address, refer to "About IP address". (413)

Select APPLY, then press the **ENTER** button to reflect the settings.

[About IP address]
Setting manually
The Network address portion of the IP address setting on your computer must be the same as the setting on the projector. Also, the entire IP address on the computer must not overlap with that of the other devices on the same network, including the projector.

The projector's settings are as follows. IP address: 192.168.1.254 Subnet mask: 255.255.255.0 (Network address: 192.168.1 in this case) Therefore, specify the computer's IP address as follows. IP address: 192.168.1.xxx (xxx shows decimal number.) Subnet mask: 255.255.255.0 (Network address: 192.168.1 in this case)

For example

Select from 1 to 254 for "xxx" not duplicating with any other equipments. In this case, since the IP address of the projector is "192.168.1.254", specify a setting between 1 to 253 for the computer.

Setting automatically

When a DHCP server exists in the connected network, it assigns an IP address to the projector and the computer automatically. If DHCP server is not available, set IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY.

NOTE

• The same network address cannot be used for both wireless LAN and wired LAN.

• If the projector and the computer exist in the same network (i.e., same network address), you can leave the default gateway field blank.

• When the projector and the computer exist in different networks, the default gateway must be set. Consult to the network administrator in detail.

2.4 Connection via wireless LAN

Connection via wireless LAN is available with option parts, USB wireless adapter (USB-WL-11N).

Wireless LAN has two types of connection, Ad Hoc and Infrastructure.



Fig. 2.4.a Without an access point communication (Ad Hoc)



Fig. 2.4.b With an access point communication (Infrastructure)

- * Ad Hoc is one of the wireless LAN communication methods without having an access point to communicate.
- * Infrastructure is one of the wireless LAN communication methods with having an access point to communicate. If communicating with existing network, consult with your network administrator.

NOTE

• Network settings can also be changed in Network Settings of Projector Web Control.

Wireless LAN initial settings for the projector are as follows. Mode: Ad Hoc DHCP: Off IP address: 192.168.10.254 Subnet Mask: 255.255.255.0 Default Gateway: 0.0.00 SSID: wireless Encryption: Off Channel: 1
The same network address cannot be used for both wireless LAN and wired LAN.

2.4.1 Connection in Ad Hoc Mode

Set the following when connecting the projector and the computer in Ad Hoc mode.

Projector setting

[Restriction on plugging and unplugging the USB wireless adapter] Before you insert or pull out the USB wireless adapter from the projector, turn off the power of the projector and pull out the power cord's plug from the outlet. Do not touch the USB wireless adapter that is connected to the projector while the projector is receiving AC power.

Do not use any extension cable or device when connecting the adapter to the projector.

- 1) Attach the USB wireless adapter to the **USB TYPE A** port of the projector.
- 2) Turn on the projector.
- 3) Press the **MENU** button on the remote control or the control panel of the projector.

The MENU you last used will appear.

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 •> VPID_RECTOR WARE

 PACTURE
 •> VPID_RECTOR WARE

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Use the cursor button to select the following.

EASY MENU > ADVANCED MENU > NETWORK > WIRELESS SETUP

- 4) Set the following items in WIRELESS SETUP.
 - · MODE: ADHOC
 - · DHCP
 - · IP ADDRESS
 - · SUBNET MASK
 - · SSID
 - · ENCRYPTION
 - · CH

As for setting an IP address, refer to "About IP address". (413)

Select APPLY, then press the **ENTER** button to reflect the settings.

Computer setting

- 1) Set IP ADDRESS and SUBNET MASK for the computer according to IP ADDRESS and SUBNET MASK set for the projector. Set the projector and the computer so that they can have the same network address.
- 2) Select SSID set for the projector by following the procedure of wireless connection of the computer. Enter encryption key by following the computer's instruction if it is encrypted.

NOTE • As for the procedure of setting network and wireless connection for the computer, refer to the manual of computer or wireless LAN device.



2.4.2 Connection in Infrastructure Mode

Set the following when connecting the projector and the computer in Infrastructure mode.

[Restriction on plugging and unplugging the USB wireless adapter] Before you insert or pull out the USB wireless adapter from the projector, turn off the power of the projector and pull out the power cord's plug from the outlet. Do not touch the USB wireless adapter that is connected to the projector while the projector is receiving AC power.

Do not use any extension cable or device when connecting the adapter to the projector.

- 1) Attach the USB wireless adapter to the **USB TYPE A** port of the projector.
- 2) Turn on the projector.
- 3) Press the **MENU** button on the remote control or the control panel of the projector.

The MENU you last used will appear.



Use the cursor button to select the following.

EASY MENU > ADVANCED MENU > NETWORK > WIRELESS SETUP

- 4) Set the following items in WIRELESS SETUP.
 - · MODE: INFRASTRUCTURE
 - · DHCP
 - · IP ADDRESS
 - · SUBNET MASK
 - · DEFAULT GATEWAY
 - · DNS SERVER
 - · SSID
 - · ENCRYPTION
 - · CH

As for setting an IP address, refer to "About IP address". (113)

Select APPLY, then press the ENTER button to reflect the settings.



Connection in Infrastructure Mode (continued)

SSID SCAN LIST function

The connection can be set up by selecting from SSID SCAN LIST without setting SSID and ENCRYPTION in WIRELESS SETUP. The procedure of connecting by SSID SCAN LIST is as follows.

- 1) Select SSID SCAN LIST in WIRELESS SETUP on NETWORK menu. The list of SSID in wireless network is displayed.
- 2) Select SSID in wireless network that you want to connect in SSID SCAN LIST. The display to enter the encryption key appears if it is encrypted. Enter the encryption key by using software keyboard.
- 3) The icon indicating "connected" (1)) is displayed in SSID SCAN LIST screen when the connection is complete.

NOTE

• Transmission speed may be slow depending on the settings of an access point.

• If the projector and the computer exist in the same network (i.e., same network address), you can leave the default gateway field blank.

• When the projector and the computer exist in different networks, the default gateway must be set. Consult with the network administrator in detail.

• Set wireless LAN for the projector by following the instructions of your network administrator when connecting to the existing network.

• Open System Authentication is used for WEP encryption, and Shared Key Authentication is not supported. The authentication with an access point succeeds and it is regarded that the connection is established normally even when entering illegal encryption key due to Open System Authentication, but data cannot actually be transmitted.

2.5 Applications

The latest version of the application software can be downloaded from the website below.

http://www.hitachi-america.us/projectors http://www.hitachidigitalmedia.com/ http://www.hitachi-dm.cn/ http://www.hitachi.co.jp/proj/

For iOS Network Presentation software, refer to the URL below for details and downloads of Projector Quick Connection.

http://www.hitachi.co.jp/Prod/vims/proj/en/ http://www.hitachi.co.jp/proj/

[System Requirements for Applications]

Application	Hardware and Software
LiveViewer	[Windows]
	OS:
	Windows [®] XP
	Windows Vista [®] (Service Pack 1 or later)
	Windows [®] 7
	Windows [®] 8
	Graphic card:
	VGA: 640x480 or higher (recommended XGA: 1024x768)
	Ŭ (
	CPU:
	Pentium 4 (2.8 GHz or higher)
	Hard disk space:
	100MB or higher

[System Requirements for Applications] (continued)

Application	Hardware and Software
LiveViewer	[Mac]
	Mac OSX 10.5 Mac OSX 10.6 Mac OSX 10.7 Mac OSX 10.8
	Hard disk space: 15MB or higher
	 NOTE Only for Intel version. Power Mac is not supported. LiveViewer for MAC is not included in the bundled CD-ROM. Download it from the website.
Projector Quick Connection	iOS 5.1.1 or later iPad, iPad2, New iPad iPhone4/4S/5
Projector Image Tool (PJImg)	OS: Windows [®] XP Windows Vista [®] Windows [®] 7 Windows [®] 8 CPU: Pentium 3 (500MHz or higher)
	Hard disk space: 20MB or higher
Projector Messenger Tool (PJMessenger)	OS: Windows [®] XP Windows Vista [®] Windows [®] 7 Windows [®] 8
	CPU: Pentium 3 (500MHz or higher)
	Hard disk space: 20MB or higher

2.6 NETWORK Menu

Remember that incorrect network settings on this projector may cause trouble on the network. Be sure to consult with your network administrator before connecting to an existing access point on your network. Select "NETWORK" from the main menu to access to the following functions.



Select an item using the \blacktriangle/∇ cursor buttons on the

projector or remote control, and press the \blacktriangleright cursor button on the projector or remote control, or **ENTER** button on the remote control to execute the item. Then perform it according to the following table.

NOTE • To use the wireless network function of this projector, the designated USB wireless adapter sold as an option is required. Do not use any extension cable or device when connecting the adapter to the projector.

• The projector does not allow both wireless and wired LAN to be connected to the same network.

• Do not set the same network address for both wireless and wired LAN.

• If you do not use SNTP, then you must set the DATE AND TIME during the initial installation.

• The network function is not available when STANDBY MODE is set to SAVING and the projector is in standby mode. Connect the projector to the network after setting STANDBY MODE to NORMAL. (

Item	Description			
Item	 Any name can be set to the projector to identify it on the network. (1) Select the PROJECTOR NAME and press the ► button. The PROJECTOR NAME dialog will be displayed. Use displayed software keyboard to enter PROJECTOR NAME. DELETE : Deletes one character. CLEAR ALL: Deletes all characters. CANCEL : Goes back to network menu after discarding the entered characters. (2) The current PROJECTOR NAME will be displayed on the first 3 lines. Particular projector name is pre-assigned by default. Use the ENTER or ⊕ button to select and enter characters. To erase 1 character at one time, press the RESET button or press the a and -© button at the same time. Also if you move the cursor to DELETE or CLEAR ALL on screen and push the ENTER or -© button, 1 character or all characters will be erased. Up to 64 characters can be input for the PROJECTOR NAME. 			
NAME	button or press the ◀ and - button at the same time. Also if you move the cursor to DELETE or CLEAR ALL on screen and push the ENTER or - button, 1 character or all characters will be erased. Up to 64 characters can be input for the PROJECTOR NAME.			



ltem	Description			
Item WIRELESS SETUP (continued)	SSID SCAN LIST (continued)	Description Icon Description Image: The projector is connecting to the wireless network. Image: The wireless network is encrypted. Image: The wireless network is encrypted. Image: The wireless network is encrypted. Image: The wireless network is encrypted. Image: The wireless network is encrypted. Image: The wireless network is encrypted. Image: The wireless network is encrypted. Image: The wireless network is encrypted. Image: The wireless network is encrypted. (2) Select SSID that you want to connect and press the ▶ or ENTER button. The display to enter the encryption key appears if SSID is encrypted. Enter the characters by using software keyboard. Move the cursor to OK and press the ▶, ENTER or -D button after entering. Image: Enter ENCRYPTION KEY Imag		

Item		Description				
		 (3) The OSD below is displayed while the connection is in progress. CONNECTING The keys other than Reset button are not available while the connection is in progress. The connection process is interrupted when pressing the Reset button. The OSD below is displayed when the connection process is complete. SUCCEEDED : Connection succeeded The message below is displayed when the connection is not established correctly. FAILED : Connection failed 				
WIRELESS SETUP (continued)	SSID SCAN LIST (continued)	 ENCRYPTION LOCK : Encryption Lock enabled NOTE • Encryption settings cannot be changed when encryption lock is enabled in Network Settings – Wireless Setup in Projector Web Control. Refer to Encryption Lock. (141) Open System Authentication is used for WEP encryption, and Shared Key Authentication is not supported. The authentication with an access point is succeeded and it is regarded that the connection is established normally even when entering illegal encryption key due to Open System Authentication, but data cannot actually be transmitted. (4) The icon indicating the connection status (10) is displayed in SSID SCAN LIST when the connection is complete. 				

ltem	Description				
	SSID SCAN LIST (continued)	Mb SSID IEEE802. CH Image: SSID IEEE802. CH Image: SSID IIIn/g/b 3 Image: SSID Image: SSID IIIIn/g/b 3 Image: SSID Image: SSID IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
	(continued)	XXXXXXXXXXXXXXXXXX 11n/g/b 9 i- XXXXXXXXXXXXXXXX 11g/b 2 i- XXXXXXXXXXXXXXXX 11g/b 6 i- XXXXXXXXXXXXXXXXXX 11g/b 10 10 XXXXXXXXXXXXXXXXX 11g/b 10 10 XXXXXXXXXXXXXXXXXXX I1g/b 10 10 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX I1g/b 10 10			
WIRELESS SETUP	MODE	Switches between ADHOC and INFRASTRUCTURE. Select the mode of the network communication system. Select according to the settings of your computer. ADHOC ⇔ INFRASTRUCTURE To save the setting, press the ▶ button.			
(continued)		NOTE • When ADHOC is selected, IEEE802.11n cannot be used. • If ADHOC is set to MODE while WPA-PSK or WPA2-PSK is selected in ENCRYPTION, the ENCRYPTION (127) setting switches to OFF automatically.			
	DHCP	Configures whether IP address is automatically obtained or not. Use the ▲/▼ buttons to turn DHCP on/off. ON ⇔ OFF			
	IP ADDRESS	Configures the IP address when DHCP is disabled. Enter the IP ADDRESS. This function can only be used when DHCP is set to OFF.			

ltem	Description				
WIRELESS	SUBNET MASK	Configures the subnet mask when DHCP is disabled. Enter the SUBNET MASK. This function can only be used when DHCP is set to OFF.			
	DEFAULT GATEWAY	Configures the default gateway when DHCP is disabled. Enter the DEFAULT GATEWAY address. This function can only be used when DHCP is set to OFF.			
	DNS SERVER	Configures the DNS server address. Enter the DNS server address.			
SETUP (continued)		This setting cannot be obtained automatically.			
(continueu)	SSID	Configures SSID for wireless network. Configures SSID for wireless network. Configures SSID for wireless network. Configures Statement of the DEFAULT (#1~#4) and press or ENTER button. To adjust CUSTOM Press the ▶ or ENTER button when the # 5 CUSTOM is selected. The SSID #5 CUSTOM menu will be appeared. Enter SSID by using software keyboard. Refer to PROJECTOR NAME (@21) for how to use software keyboard.			

Item	Description				
WIRELESS SETUP (continued)	ENCRYPTION	Select the encryption method to be used. WPA2-PSK(AES) ⇔ WPA2-PSK(TKIP)			
	СН	 Select the channel of the wireless LAN to be used while MODE ([□]25) is set to ADHOC. Select according to the settings of your computer. The channels 1 to 11 are available. To save the setting, press the ► button. The available channels vary depending on a country. 			

ltem	Description			
	Configures w network. Setting value after selecting NOTE Setting valu APPLY.	s are saved g APPLY.	WIRED SETUP DHCP SUBACT MASK DEFAULT GATEWAY DASSERVER APPLY CRETURN Ved if Menu dis	0FF 3 192. 168. 1. 119 3 255. 255. 248. 0 0 0. 0. 0. 0 0 appears before selecting
WIRED SETUP	DHCP	obtained or	r not. V buttons to tu	ddress is automatically rn DHCP on/off.
	IP ADDRESS	Enter the IF	PADDRESS.	ss when DHCP is disabled. e used when DHCP is set
	SUBNET MASK	Enter the S	UBNET MAS	ask when DHCP is disabled. K. e used when DHCP is set

ltem	Description	
WIRED	DEFAULT GATEWAY	Configures the default gateway when DHCP is disabled. Enter the DEFAULT GATEWAY address. This function can only be used when DHCP is set to OFF.
SETUP (continued)	DNS	Configures the DNS server address. Enter the DNS server address.
	SERVER	NOTE This setting cannot be obtained automatically.

Item		Description
Item	wired LAN se The first page	item displays the dialog for viewing the wireless and ttings. Use the ▲/▼ buttons to switch the page. shows the wireless LAN settings. The second page d LAN settings, and the third page is for common The following information is displayed. • PASSCODE • MODE • IP ADDRESS • SUBNET MASK • DEFAULT GATEWAY • DNS SERVER • MAC ADDRESS
NETWORK INFORMATION	WIRELESS	 MAC ADDRESS SSID ENCRYPTION CH SPEED Passcord supports the connection between the projector and the computer when using Network Presentation. Refer to Network Presentation (174) for the details. NOTE • IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY indicate "0.0.0.0" in the following condition.
		 (1) The USB wireless adapter is not inserted into the projector. (2) DHCP is ON and the projector does not get address from DHCP server. Nothing (blank) is shown in the CH and SPEED fields if the USB wireless adapter is not inserted.

ltem	Description		
NETWORK INFORMATION (continued)	WIRED INFORMATION	The following information is displayed. • PASSCODE • IP ADDRESS • SUBNET MASK • DEFAULT GATEWAY • DNS SERVER • MAC ADDRESS Passcord enables the projector and the computer to be connected to the network easily when using Network Presentation. Refer to Network Presentation (174) for details. NOTE • IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY indicate "0.0.0.0" when DHCP is ON and the projector has not gotten address from DHCP server.	
	OTHER INFORMATION	 The following information is displayed. PROJECTOR NAME DATE AND TIME SNTP SERVER TIME DIFFERENCE PROJECTOR NAME and SNTP SERVER may appear truncated if they are too long. 	

Item		Description	
		When you get the time via the network, specify SNTP server with IP address or domain name. Up to 255 characters can be entered for domain name.	
	SNTP SERVER	They are entered by using software keyboard. Refer to PROJECTOR NAME(12 <i>1</i>) for how to use software keyboard.	
SNTP SETUP		NOTE Set the time difference when using SNTP.	
	TIME DIFFERENCE	Enter the time difference. Set the same time difference as the one set on your computer. If unsure, consult your network administrator. Use the ► button to return to the menu after setting the TIME DIFFERENCE.	

Item	Description
	Selecting this item displays the MY IMAGE menu. Use the application to transfer the image data. It can be downloaded from the web site. Refer to 5. My Image Function (178) for the details of MY
MY IMAGE	 IMAGE. Select an item of still image by the MY IMAGE and the ▶ or ENTER button to display the image. The item without stored image cannot be selected. Each image name is displayed in 16 characters or less.
	To switch the image displayed Use the ▲/▼ buttons. To return to the menu Press the ◀ button on the remote control.
	 To erase the displayed image and its source file in the projector. (1) Press the RESET button on the remote control while displaying an image to display the MY IMAGE DELETE menu.
	 (2) Press the ► button to erase. To stop erasing, press the ◄ button.
AMX D.D. (AMX Device Discovery)	Use the ▲/▼ buttons to turn the AMX Device Discovery on/off. ON ⇔ OFF When ON is selected, the projector can be detected by controllers of AMX connected to the same network. For the details of AMX Device Discovery, visit the AMX web site. <u>URL: http://www.amx.com/</u>

Item		Description		
	required. It ca CD. You can information fr Refer to 4. N	b use Network Presentation, an exclusive application is quired. It can be installed from the bundled application D. You can also download the latest version and relevant formation from the Hitachi website. efer to 4. Network Presentation (<i>174</i>) for the details of etwork Presentation.		
	QUIT PRESENTER MODE	If you set a computer to the Presenter mode while its image is projected, the projector is occupied by the computer and access from any other computer is blocked. Use this function to quit the Presenter mode and allow other computers to access the projector. Select this item to display a dialog. Press the ▶ button to choose OK in the dialog. The Presenter mode is cancelled and a message is displayed indicating the result.		
PRESENTATION	MULTI PC MODE	If you set one or more computers to the Multi PC mode and send their images to the projector, you can select the display mode on the projector from two options below. - Single PC mode: displays the image of the selected computer on full screen. - Multi PC mode: displays the images sent from up to four computers on screen that is divided into quarter sections. Select this item to display a dialog. Use the dialog to change the display mode as explained below. • To change from Multi PC mode to Single PC mode, select one of computers in the dialog using the ▲/▼/ • To change from Multi PC mode to Single PC mode, select one of computers in the dialog using the ▲/▼/ • buttons and press the ENTER or -€) button. Press the ▶ button to choose OK, and then press ENTER or -€) again. The image for the selected computer is displayed on full screen. (continued on next page)		

Item	Description		
PRESENTATION (continued)	MULTI PC MODE (continued)	 To change from Single PC mode to Multi PC mode, press the ► button to choose OK in the dialog and press the ENTER or -D button. The display mode is changed. The Presenter mode setting of the selected computer becomes valid when the display mode is changed to Single PC mode. Also, the Presenter mode setting becomes invalid when the display mode is changed to Multi PC mode, regardless of the setting on the computers. 	
	DISPLAY USER NAME	Selecting this item displays the user name. This function helps you identify from which computer the current image is sent.	

3. Web Control

You can adjust or control the projector via a network from a web browser on a computer connected to the same network.

Projector Web Control

You can control the projector, collect the status such as lamp time, and set e-mail or schedule, etc. in Projector Web Control.

Recommended web browser

Internet Explorer[®] 6/ 7/ 8/ 9/ 10

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gefannten gif frankrietara		9.	D + C + Eqt+ Selet	- Tank - 🔂 -
00	Top:Network I	nformation		
	Common informatio	n		
Top: Network Information	Projector Name	PRJ_001F67455F10		
Network Settings	Wireless Information			
Port Settings	Mode	Infrastructure		
Mail Settings	DHCP	ON		
	IP Address	192.168.10.10		
Alert Settings	Subnet Mask	255.255.255.0		
Schedule Settings	Default Gateway	192.168.10.1		
Date/Time Settings	DNS Server Address	197.168.10.100		
	MAC Address	AC8112E73E9F		
Security Settings	ch -	1		
Projector Control	Encryption	WPA2-PSK(AES)		
Remote Control	SSID	wireless		
	Speed	54 Mbps		
Projector Status				
Network Restart	Wired Information			
Connection Test	DHCP	ON		
	IP Address	192.168.1.10		
	Subnet Mask	255.255.255.0		
	- Defail Gateway	192.168.1.1		
Done		G Internet Posts	ched Made De 44 =	R.1075 +

NOTE • Web browsers other than recommended ones may not work.

• Internet Explorer[®] 6.0 or later is required.

• If JavaScript[®] is disabled in your web browser configuration, you must enable JavaScript[®] in order to use the projector web pages properly. See the Help files for your web browser for details on how to enable JavaScript[®].

- It is recommended that all web browser updates are installed.
- · If data is transferred via wireless and wired LAN at the same time, the
- projector may not process the data correctly.

■Crestron e-Control

Crestron e-Control[®] is a control interface using a web browser provided by Crestron Electronics, Inc.. Crestron e-Control[®] can control and monitor the projector.

Power	Vol -	M.de	Vol +	
ources List				
Computer in 1				Menu
				Enter J
			-	Resot
NOTE • Crestron e-Control[®] is created using Flash[®]. You need to install Adobe[®] Flash[®] Player on your computer to use Crestron e-Control[®]. Crestron e-Control[®] is not displayed in a web browser that does not support Flash[®]. • If Crestron e-Control[®] in the Network Settings (**1**43) is set to Disable, the selection window does not appear, but the Login window of the Projector Web Control is displayed.

Refer to the following for configuring or controlling the projector via a web browser. Make sure that your computer and the projector is connected via network, and then start Web browser.

Enter the projector's IP address into URL input box of the Web browser as the example below, and then press the Enter key or \rightarrow button.

Example: If the IP address of the projector is set to 192.168.1.10:

Enter "http://192.168.1.10/" into the address bar of the web browser and press the Enter key or click \rightarrow button.

If a correct URL is input, and the projector and your computer are connected to the same network correctly, the selection window will be displayed.

Prinde Mark - Westerne Internet Explorer		121.0
	• 1) + × Zing	P
Proster I index band	5+0+016	- Barr Selar Task- 6
	Projector Web Control	
	Crestron e-Control	
74	🚯 Imanet / Protected Made De	14 + 15 1015 +

NOTE • Do not control the projector with the projector's menu or remote control, and via Web Control at the same time. It may cause some operational errors in the projector.

• The language used on the Projector Web Control is the same as that of the OSD on the projector. If you want to change it, you need to change the OSD language on the projector. (LISCREEN menu in the Operating Guide)

3.1 Projector Web Control

3.1.1 Login

To use the Projector Web Control function, you need to login with your user name and password.

Below are the factory default settings for user name and password.

Windows Security	
The server 192.1 and password.	168.1.10 at Web Server Authentication requires a username
	ever is requesting that your username and password be ure manner (basic authentication without a secure
	User name Password Remember my credentials
	OK Cancel

User nameAdministratorPassword<blank>

Login window

Enter your user name and password, and then click the **[OK]**. If you login successfully, the screen below will be displayed.



Click the desired operation or configuration item on the main menu.

3.1.2 Network Information

Carl & resultant at the			1.0
Tanta Branning		B+B+0 #+	Ine - She - Ten - @
00	Top:Network	< Information	
	Common inform		
Tearring And Antonia State	Projector Name	PRI_001767455938	
Network Settings	Wireless Informa	6on	
Fort Settlana	Model	Infrastructure:	
Mul Settings	DHICP	CIN	
	SP Address	392,168,18,18	
Mort Settings	Subset Mask	255,255,255.8	
Schedule Settings	Definal fasteway	192.568.58.1	
Bale / Time Settlings		11 192.268.19.199	
Security Settings	and Address	ACILL2023090	
	0		
Projector Control	E sur raystance	WPA2 PSR(ALS)	
Remote Control	ssin	windexa	
Projector States	Speed	54 Miles	
Network Restart	Wired Informatio	n	
Connection Test	DHCP	ON	1
Contract Net :	IP Address	192.368.1.10	
	Subset Mask	215,255,255.0	
	CONTRACTOR OF TRACTOR	192.166.1.1	() + 1.000 ·

Displays the projector's current network configuration settings.

Item Description		Description			
Common In	formation	Displays information common to both wireless and wired LAN.			
Projecto	r Name	Displays the projector name settings.			
Wireless Information		Displays the current settings of wireless LAN.			
Mode		Displays the mode of wireless LAN communication.			
DHCP		Displays the DHCP setting.			
IP Addre	SS	Displays the IP address.			
Subnet M	Mask	Displays the subnet mask.			
Default C	Gateway	Displays the default gateway.			
DNS Ser	ver Address	Displays the DNS server address.			
MAC Add	dress	Displays the MAC address.			
Ch		Displays the channel used for wireless LAN.			
Encrypti	on	Displays the data encryption setting.			
SSID		Displays the SSID used by the projector.			
Speed		Displays the current wireless LAN transmission speed.			
Wired Inform	nation	Displays the current wired LAN settings.			
DHCP		Displays the DHCP setting.			
IP Addre	SS	Displays the IP address.			
Subnet M	Mask	Displays the subnet mask.			
Default C	Gateway	Displays the default gateway.			
DNS Ser	ver Address	Displays the DNS server address.			
MAC Add	dress	Displays the MAC address.			

3.1.3 Network Settings



Displays and configures network settings.

	Item	Description		
Co	ommon Setup	Configures the settings common to wireless and wired LAN.		
	Projector Name	Configures the name of the projector. The length of the Projector Name can be up to 64 alphanumeric characters. Only alphabets, numbers and following symbols can be used. !"#\$%&'()*+,/:;<=>?@[\]^_`{ }~ and space. Particular projector name is pre-assigned by default.		
	sysLocation (SNMP)	Configures the location to be referred to when using SNMP. The length of the sysLocation can be up to 255 alphanumeric characters. Only numbers '0-9', alphabet 'a-z' and 'A-Z' can be used.		
	sysContact (SNMP)	Configures the contact information to be referred to when using SNMP. The length of the sysContact can be up to 255 alphanumeric characters. Only numbers '0-9', alphabet 'a-z' and 'A-Z' can be used.		
	AMX D.D. (AMX Device Discovery)	Configures the AMX Device Discovery setting to detect the projector from the controllers of AMX connected to the same network. For the details of AMX Device Discovery, visit the AMX web site. URL: http://www.amx.com		

3.1 Projector Web Control - Network Settings (continued)

	Item Description		Description			
Wir	Wireless Setup		Setup	Configures the wireless LAN settings.		
	Mode IP Configuration DHCP ON DHCP OFF IP Address Subnet Mask			Select "Ad Hoc" or "Infrastructure".		
			figuration	Configures network settings. Enables DHCP. Disables DHCP.		
			CP ON			
			CP OFF			
			IP Address	Configures the IP address when DHCP is disabled.		
			Subnet Mask	Configures the subnet mask when DHCP is disabled.		
			Default Gateway	Configures the default gateway when DHCP is disabled.		
	DN	IS S	erver Address	Configures the DNS server address.		
				Select from "1" to "11", a channel to use in the Ad Hoc mode.		
	Ch Encryption Lock			NOTE • The channels may vary depending on the country. In addition, depending on the country or region, it may be required to use a wireless network card that conforms to the standards in the respective country or region.		
			otion Lock	Permits or inhibits changes of the following settings related to wireless connection. • Mode • Encryption • Encryption key (WEP key, WPA passphrase) • SSID When Encryption Lock is set to ON, these settings cannot be changed by the menu of the projector.		
				NOTE • If Encryption Lock is ON, wireless connection is performed only when it can be connected without changing the current settings.		
	En	cryp	otion	Select data encryption method.		

3.1 Projector Web Control - Network Settings (continued)

	Item Description				
Wi	reless Setup	Configures the wireless LAN settings.			
	WEP Key	Input the WEP key. Either ASCII characters or hexadecimal numbers can be used during WEP key input. However, you cannot use a combination of both. The length of the key is defined as follows according to the WEP and character formats.			
		EncryptionASCII charactersHEX numbersWEP 64bit5 characters10 charactersWEP 128bit13 characters26 characters			
	WPA Passphrase	Input WPA Passphrase. Available number of input characters is 8 to 63. Only alphabets, numbers and the following symbols can be used. !"#\$%&'()*+,/:;<=>?@ [\]^_`{ }~ and space			
	SSID	Select an SSID from the list. If you require to set your unique SSID, select [Custom] , the set your own SSID following the rules below. The maximum number of input characters is 32. Only alphabets, numbers and the following symbols can be used. !"#\$%&'()*+,/:;<=>?@[\]^_`{ }~ and space.			

3.1 Projector Web Control - Network Settings (continued)

	Item			Description		
Wi	Wired Setup		tup	Configures the wired LAN settings.		
	IP Configuration		nfiguration	Configures network settings.		
	DHCP ON DHCP OFF IP Address Subnet Mask		ICP ON	Enables DHCP.		
			ICP OFF	Disables DHCP.		
			IP Address	Configures the IP address when DHCP is disabled.		
			Subnet Mask	Configures the subnet mask when DHCP is disabled.		
			Default Gateway	Configures the default gateway when DHCP is disabled.		
	D١	NS S	Server Address	Configures the DNS server address.		
Ot	Other Setup Crestron e-Control		tup	Configures other network settings.		
			ron e-Control	Set whether or not to use Crestron e-Control [®] . If you choose Disable, not the selection window but the Login window of Projector Web Control will be displayed at first.		

Click the [Apply] button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from Network Restart on the main menu. ($\square 63$)

• If you connect the projector to an existing network, consult a network administrator before setting server addresses.

• The WEP Key, WPA passphrase and SSID settings will not be set if the invalid characters are used.

• The projector does not allow both wireless and wired LAN to be connected to the same network. Do not set the same network address for both wireless and wired LAN.

3.1.4 Port Settings



Displays and configures communication port settings.

Item		Description		
1	twork Control Port1 ort:23)	Configures command control port 1 (Port:23).		
	Port open	Click the [Enable] check box to use port 23.		
Authentication		Click the [Enable] check box when authentication is required for this port.		
Network Control Port2 (Port:9715)		Configures command control port 2 (Port:9715).		
	Port open	Click the [Enable] check box to use port 9715.		
	Authentication	Click the [Enable] check box when authentication is required for this port.		
	Link [™] Port ort:4352)	Configures the PJLink [™] port (Port:4352).		
	Port open	Click the [Enable] check box to use port 4352.		
	Authentication	Click the [Enable] check box when authentication is required for this port.		
	v Image Port ort:9716)	Configures the My Image Port (Port:9716).		
	Port open	Click the [Enable] check box to use port 9716.		
	Authentication	Click the [Enable] check box when authentication is required for this port.		
	essenger Port ort:9719)	Configures the Messenger Port (Port:9719).		
	Port open	Click the [Enable] check box to use port 9719.		
	Authentication	tion Click the [Enable] check box when authentication is required for this port.		

3.1 Projector Web Control - Port Settings (continued)

	Item	Description		
SNMP Port		Configures the mib file port.		
	Port open	Click the [Enable] check box to use SNMP.		
	Trap address	Configures the destination of the SNMP Trap in IP format. • The address allows not only IP address but also domain name if the valid DNS server is setup in the Network Settings . The maximum length of host or domain name is up to 255 characters.		
	Download MIB file	Downloads a MIB file from the projector.		
Ne	twork Bridge Port	Configures the Bridge port number.		
	Port number	Input the port number. Except for 41794, 9715, 9716, 9719, 9720, 5900, 5500, 4352 between 1024 and 65535 can be set up. It is set to 9717 as the default setting.		

Click the [Apply] button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from Network Restart on the main menu. ($\square 63$)

3.1.5 Mail Settings



Displays and configures e-mail addressing settings.

Item	Description
Send Mail	Click the [Enable] check box to use the e-mail function. Configure the conditions for sending e-mail under the Alert Settings .
SMTP Server Address	Configures the address of the mail server in IP format. • The address allows not only IP address but also domain name if the valid DNS server is setup in the Network Settings . The maximum length of host or domain name is up to 255 characters.
Sender E-mail address	Configures the sender e-mail address. The length of the sender e-mail address can be up to 255 alphanumeric characters.
Recipient E-mail address	Configures the e-mail address of up to five recipients. You can also specify the [to] or [cc] for each address. The length of the recipient e-mail address can be up to 255 alphanumeric characters.
Send Test Mail	Sends a test e-mail to the set address.

Click the [Apply] button to save the settings.

Mail settings are initialized when clicking the [Reset] button.

NOTE • You can confirm whether the mail settings work correctly by using the **[Send Test Mail]** button. Enable Send Mail setting before clicking the **[Send Test Mail]**.

• If you connect the projector to an existing network, consult a network administrator before setting server addresses.

3.1.6 Alert Settings



Displays and configures failure & alert settings.

Notification such as e-mail and SNMP trap can be set regarding the following errors/warnings.

- ·Cover Error
- ·Fan Error
- ·Lamp Error
- ·Temp Error
- ·Air Flow Error
- ·Cold Error
- ·Filter Error
- ·Other Error
- ·Schedule Execution Error
- ·Lamp Time Alarm
- ·Filter Time Alarm
- ·Cold Start
- ·Authentication Failure

Refer to Chapter 8-1 for the details of the above errors/warnings. (287)

3.1 Projector Web Control - Alert Settings (continued)

The Alert Items are shown below	The Alert	Items	are	shown	below.
---------------------------------	-----------	-------	-----	-------	--------

ltem	Description
Alarm Time Configures the time to alert. (Only Lamp Time Alarm and Filter Time Alarm.)	
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts.
Send Mail	Click the [Enable] check box to enable e-mail alerts. (Except Cold Start and Authentication Failure .)
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 100 alphanumeric characters. Using any other character may shorten the subject line. (Except Cold Start and Authentication Failure .)
Mail Text	Configures the text of the e-mail to be sent. The length of the text is up to 1024 alphanumeric characters. Using any other character may shorten the text. (Except Cold Start and Authentication Failure .)

Click the [Apply] button to save the settings.

The settings are initialized when clicking the [Reset] button.

3.1.7 Schedule Settings

100	Schedule Sett	tings	
Top: Network Information	Echedule Manager Select the checkbox at	ment The achiedule to energies, and aelest the program.	
Methanick Settlings	Schedule	Program	
Port Settlesse	· Number	Preparat	Austr
A REAL PROPERTY AND A REAL	IS Munifer	Property . 4	interior.
Had Settings	III Torontay	Property 4	
Aden't Settlings	I Wednesday	Preparat a	Creater.
Schedule Settings	III Thursday	Property +	(Apple)
Date/Tese Settings	10 F1554	Import	(Analy)
Security Settings	IS Salarday	Paget 2 4	Austral
Projector Control	III Specific date No.	B Propulse a Int / 11 (Manifolday)	Course .
Remote Control	Ill Specific date lks.	2 Inspect + 07 / 10	- Apple
Projector States	I Specific date No.	J Prepared in [11 / 18	Auto
Network Restart	B Specific date No.	A Responding to Article	Auto
Connection Test	B Specific date No.	S Proposition (11 / 12	Austra
	Contractor of the local division of the		Ballerin .

Displays and configures schedule settings.

NOTE • Be sure to set the date and time before enabling scheduled events. ($\square 53$) • Refer to 8.3 Event Scheduling for the details of schedule settings. ($\square 92$)

1) Schedule Management

Item	Description	
Sunday		
Monday		
Tuesday		
Wednesday	Schedule settings executed on each day of the week.	
Thursday	-	
Friday		
Saturday		
Specific date No.1		
Specific date No.2		
Specific date No.3	Schedule settings executed on specified day. Up to 5 days can be specified.	
Specific date No.4		
Specific date No.5]	

3.1 Projector Web Control - Schedule Settings (continued)

ltem	Description
Schedule	Select the checkbox of the schedule to execute.
Program	Select the program. The detail of the event registered in each program can be confirmed in the program list displayed at the bottom of the screen.
Date (Month/Day)	Input the date (month/day) when the schedule is executed for Specific date 1~5.

Click the [Apply] button to save the settings.

Click the **[Refresh]** button to update the screen to the latest status.

Click the **[Program Edit]** button to display the program edit of the selected program.

Click the **[Copy to]** button to copy the content of the program from which you copy (the list on the left) to the program to which you copy (the list on the right). The same program No. cannot be selected for both the program from which and the program to which you copy.

3.1 Projector Web Control - Schedule Settings (continued)

2) Program Edit



The current event settings are displayed on the list. To add additional functions and events, set the following items.

NOTE • A maximum of 16 programs of schedule can be set. A maximum of 20 events can be registered in 1 program.

	Item	Description
Tir	ne	Configures the time to execute events.
Εv	ent [Parameter]	Configures the events to be executed.
	Power	
	STANDBY	Configures the parameters for power control.
	ON	
	Input Source	
	COMPUTER IN1	
	COMPUTER IN2	
	LAN	
	USB TYPE A	Configures the parameters for switching input.
	USB TYPE B	
	HDMI 1	
	HDMI 2	
	VIDEO	
	My Image	
	IMAGE-OFF	
	IMAGE-1	Configures the parameters for My Image data display.
	IMAGE-2	Configures the parameters for my image data display.
	IMAGE-3	
	IMAGE-4	

3.1 Projector Web Control - Schedule Settings (continued)

	ltem	Description
Messenger		
	TEXT-OFF	-
	TEXT-1	
	TEXT-2	
	TEXT-3	
	TEXT-4	
	TEXT-5	Configurate the personators for Messenger data diaplay
	TEXT-6	Configures the parameters for Messenger data display.
	TEXT-7	
	TEXT-8	
	TEXT-9	
	TEXT-10	
	TEXT-11	
	TEXT-12	
Eco	Mode	
	NORMAL	
	ECO	Configures the parameters for eco mode switching.
	INTELLIGENT ECO	
	SAVER	
Blan	k	
OFF ON		Configures the parameters for blank screen on/off control.
Slide	eshow	
	START	Configures the Start/Stop parameters for the Slideshow.
STOP		

Click the [Register] button to add new events to the program.

Click the [Delete] button to delete events from the program.

Click the **[Delete All]** button to clear all the events registered in the current selected program.

Click the **[Back]** button to go back to the schedule management screen.

3.1.8 Date/Time Settings



Displays and configures the date and time settings.

ltem		1	Description
Curre	Current Date		Configures the current date in year/month/day format.
Curre	Current Time		Configures the current time in hour:minute:second format.
Dayli	Daylight Savings Time		Click the [ON] check box to enable daylight savings time and set the following items.
S	tart		Configures the date and time daylight savings time begins.
	Month		Configures the month daylight savings time begins (1~12).
	Week Day		Configures the week of the month daylight savings time begins (First, 2, 3, 4, Last).
			Configures the day of the week daylight savings time begins (Sun, Mon, Tue, Wed, Thu, Fri, Sat).
	hour	Configures the hour daylight savings time begins (0 \sim 23).	
	Time	minute	Configures the minute daylight savings time begins (0 \sim 59).
E	nd		Configures the date and time daylight savings time ends.
	Month		Configures the month daylight savings time ends (1 ~ 12).
	Week Day		Configures the week of the month daylight savings time ends (First, 2, 3, 4, Last).
			Configures the day of the week daylight savings time ends (Sun, Mon, Tue, Wed, Thu, Fri, Sat).
	hour	Configures the hour daylight savings time ends (0 \sim 23).	
	Time minute		Configures the minute daylight savings time ends (0 \sim 59).

3.1 Projector Web Control - Date/Time Settings (continued)

Item		Description
Time difference		Configures the time difference. Set the same time difference as the one set on your computer. If unsure, consult your IT manager.
SNTP	SNTP Server Address	Configures the SNTP server address in IP format. • The address allows not only IP address but also domain name if the valid DNS server is setup in the Network Settings. The maximum length of host or domain name is up to 255 characters.
	Cycle	Configures the interval at which to retrieve Date and Time information from the SNTP server (hour:minute).

Click the [Apply] button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from Network Restart on the main menu. ($\square 63$)

• If you connect the projector to an existing network, consult a network administrator before setting server addresses.

• To enable the SNTP function, the time difference must be set.

• The projector will retrieve Date and Time information from the time server and override time settings when SNTP is enabled.

• The internal clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time.

• The internal battery is required to be replaced when the time is off soon after setting date and time.

3.1.9 Security Settings



Displays and configures passwords and other security settings.

	Item	Description
Us	er Account	Configures the user name and password.
	User name	Configures the user name. The length of the text can be up to 32 alphanumeric characters.
	Password	Configures the password. The length of the text can be up to 255 alphanumeric characters.
	Re-enter Password	Reenter the above password for verification.
Ne	twork Control	Configures the Authentication password for Network Control Port1 (Port: 23), Network Control Port2 (Port: 9715), PJLink™ Port (Port: 4352), My Image Port (Port: 9716), and Messenger Port (Port: 9719). (1 <i>44</i>)
	Authentication Password	Configures the Authentication password. The length of the text can be up to 32 alphanumeric characters.
	Re-enter Authentication Password	Reenter the above password for verification.
SN	IMP	Configures the community name if SNMP is used.
	Community name	Configures the community name. The length of the text can be up to 64 alphanumeric characters.

Click the **[Apply**] button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from Network Restart on the main menu. ($\square 63$)

• Only numbers '0-9', alphabet 'a-z' and 'A-Z' can be used.

3.1.10 Projector Control



Operations of the projector can be performed with the items on the screen.

The categories of the items are shown in the main menu. Most of the items have a submenu. Refer to the table below for details.

NOTE • The setting value may not match with the actual value if the user changes the value manually. In that case, refresh the page by clicking the **[Refresh]** button.

	ltem		
	POWER		
	INPUT SOURCE		
	PICTURE MODE		
	BLANK ON/OFF		
	MUTE		
MAIN	FREEZE		
	MAGNIFY		
	MAGNIFY POSITION V		
	MAGNIFY POSITION H		
	TEMPLATE		
	MY IMAGE		
	MY IMAGE DELETE		

ltem		
	IWB MODE	
IWB	AUTO CALIBRATE	
	MANUAL CALIBRATE	
	BRIGHTNESS	
	CONTRAST	
	HDCR	
	ACCENTUALIZER	
	GAMMA	
PICTURE	COLOR TEMP	
	COLOR	
	TINT	
	SHARPNESS	
	ACTIVE IRIS	
	MY MEMORY	
	ASPECT The selected parameter cannot be set depending on the input signal.	
	OVER SCAN	
IMAGE	V POSITION	
	H POSITION	
	H PHASE	
	H SIZE	
	AUTO ADJUST EXECUTE	
	PROGRESSIVE	
	VIDEO NR	
	COLOR SPACE	
INPUT	VIDEO FORMAT	
	HDMI FORMAT	
	HDMI RANGE	
	COMPUTER IN	
	FRAME LOCK	

Item			
	D-ZOOM		
	D-SHIFT V		
	D-SHIFT H		
	PICT.POSIT.H		
	KEVETONE	KEYSTONE V	
	KEYSTONE	KEYSTONE H	
	PERFECT FIT	Corner Position	
		Line Distortion	
SETUP	AUTO ECO MODE		
	ECO MODE		
	INSTALLATION		
	STANDBY MODE		
	NOTE • The network function is not available when STANDBY MODE is set to SAVING and the projector is in standby mode. Connect the projector to the network after setting STANDBY MODE to NORMAL.		
	MONITOR OUT		
	VOLUME		
AUDIO	SPEAKER		
AUDIO	AUDIO SOURCE		
	MIC VOLUME		
	LANGUAGE Click the [Apply] button to switch the language on the Web screen according to the setting of the selected language in the projector.		
	MENU POSITION V MENU POSITION H		
	BLANK		
	AUTO BLANK		
SCREEN	START UP		
	MyScreen Lock		
	MESSAGE		
	TEMPLATE		
	C.C DISPLAY		
	C.C MODE		
	C.C CHANNEL		

Item	
	AUTO SEARCH
OPTION	DIRECT POWER ON
	AUTO POWER OFF
	MY BUTTON – 1 / 2
	REMOTE RECEIV.
	REMOTE FREQ.
SERVICE	Quit Presenter Mode Quit compulsorily from the Presenter mode. Refer to Chapter 4 for the details of Presenter Mode. (1 <i>75</i>)

3.1.11 Remote Control



The functions on the bundled remote control are assigned to the Web Remote Control screen.

Do not control the projector with the projector's remote control and via Web Remote Control at the same time. It may cause some operational errors in the projector.

- රා (STANDBY/ON)
- COMPUTER IN1
- COMPUTER IN2
- LAN
- USB TYPE A
- USB TYPE B
- HDMI 1
- HDMI 2
- VIDEO
- AV MUTE
- FREEZE
- $\bullet \blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright$
- ENTER
- MENU
- RESET
- PAGE UP
- PAGE DOWN
- SLIDE SHOW

NOTE • One operation can be executed only with one click. The button should be clicked repeatedly to operate continuously.

• When clicking the button repeatedly, some commands may not be sent correctly. Click it at intervals.

• When the **[\U]** button is pushed, a message window comes up to confirm the operation. To control the power, push **[OK]**, otherwise push **[Cancel]**.

3.1.12 Projector Status

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a feater ground and		◎ + 約 + 3 + 4 + 4	han bhan fann 🖶
Tep: Te	Projector Status Erro Mala Markana Ind Markana	B+ ■ + 3 B+.	North Tools Tools
Projuter States			
Network Reslart			
Connection Test			
-		Contrast Francisco Marcine Ten	11 × 12 × 1

Displays the current settings and status of the projector.

Item	Description
Error Status	Displays the error status.
Lamp Time	Displays the usage time for the lamp.
Filter Time	Displays the usage time for the filter.
Power Status	Displays the power status.
Input Status	Displays the input signal source.
Blank On/Off	Displays the Blank screen on/off status.
Mute	Displays the Mute on/off status.
Freeze	Displays the Freeze status.

3.1.13 Network Restart

Content of the Designation of the Designation		
Frank Brigan bag	5+0+0 e+1	tur bis- tur-
Netwo	ork Restart	
	Confirm	
Tap: Network Information	Restarting requires you to re-legat in order to further control or configure the projector via a web tensese.	
Network Settings		
Port Settings	Restort	
Mad Settings		
Mert Settings		
Schedule Settings		
Late / Time Settings		
Security Settings		
Projector Control		
Remote Control		
Projector States		
hetwork Restart		
Connection Test		
-	Concret Protocol Hands Ton	44 P. M.M. P.

Restarts the projector's network connection.

ltem	Description
Restart	Restarts the projector's network connection in order to activate new configuration settings.

NOTE • Restarting requires you to re-login in order to further control or configure the projector via a web browser. Wait 30 seconds or more after clicking the **[Restart]** button to log on again.

3.1.14 Connection Test

A THE R PROPERTY OF A DESCRIPTION OF A DESCRIPA DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTA		
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Con	nection Test	
Tap) Network Information	Destination IP Address (*) *(*)	
Network Settlings	Lancados - Chant	
Port Settings	1	
Mull Settings		
Alert bettings		
Schedule Settings		
Balor/Time Settings		
Security Settings		
Projector Control		
Remote Control		
Projector States		
Network Restart		
Connection Test		
an constant i		

Checks if the network is connecting to DNS server or SNTP server, etc.

 Item
 Description

 Destination IP Address
 Click the [Execute] button to test the connection after entering IP address to connect to.

Display example of the connection succeeded :

PING 192.168.1.200 (192.168.1.200): 56 data bytes 64 bytes from 192.168.1.200: seq=0 ttl=128 time=2.136 ms 64 bytes from 192.168.1.200: seq=1 ttl=128 time=0.524 ms

--- 192.168.1.200 ping statistics ---2 packets transmitted, 2 packets received, 0% packet loss round-trip min/avg/max = 0.524/1.330/2.136 ms

Display example of the connection failed :

PING 192.168.100.200 (192.168.100.200): 56 data bytes

Destination host unreachable.

NOTE • Confirm information of the target IP address with network administrator.
• Connection test may result in an error even if the connection is performed properly when the packets for checking the connection are discarded before arriving at the target depending on the settings of firewall or packet filtering, etc.
• The result of the connection test is displayed only in English.

3.2 Crestron e-Control[®]



The Main window as shown above is displayed at first. However, if you have enabled User Password on the Tools window ($(\Box 69)$, a dialog prompting you to enter the password as shown on the right will be displayed, and no operation is enabled until you have entered the password. After entering the preset password, the dialog disappears and the Main window will be displayed. As shown below, you can open a window by clicking the corresponding tab at the top right of the window.



User Password dialog

Tab	Description
Logout	Logs out from e-Control [®] . This tab appears only when User Password of the Tools window is enabled.
Tools	Opens Tools window. (469)
Info	Opens Info window. (171)
Contact IT Help	Opens Help Desk window. (172)

3.2 Crestron e-Control[®] (continued)

NOTE • If Crestron e-Control[®] in the Network Settings (**1**43) is set to Disable, Crestron e-Control[®] cannot be used to operate the projector. Enable Crestron e-Control[®] and close the web browser. Next, restart the web browser, followed by entering the projector's IP address.

• Only English is supported on Crestron e-Control®.

• If the connection is terminated, the "Loading..." screen will appear. Check the connection between the projector and the computer, then return or refresh the Web page.

• The control from Crestron e-Control® is supported only via wired LAN.

3.2 Crestron e-Control[®] (continued)

3.2.1 Main window



You can operate the basic controls of the projector on this screen.

NOTE • If the projector is in the standby mode, only the **[Power]** button can be operated.

1. Click a button and operate as follows.

Button	Description
Power	Turns the power on/off.
Vol -/ Vol +	Adjusts the volume setting.
Mute	Turns Mute on/off.

2. Sources List

You can click a button to switch the input channel. The cursor will move according to the currently selected input port.

Button	Description
Computer in1	Selects input from COMPUTER IN1 port.
Computer in2	Selects input from COMPUTER IN2 port.
LAN	Selects input from LAN port.
USB Type A	Selects input from USB TYPE A port.
USB Type B	Selects input from USB TYPE B port.
HDMI 1	Selects input from HDMI 1 port.
HDMI 2	Selects input from HDMI 2 port.
Video	Selects input from VIDEO IN port.

3.2 Crestron e-Control[®] - Main window (continued)

Click a button and operate as follows. To show the hidden buttons, click the
 ✓ icons at the left and right ends.

Button	Description
Freeze	Turns Freeze on/off.
Contrast	Adjusts the contrast setting.
Brightness	Adjusts the brightness setting.
Color	Adjusts the color setting.
Sharpness	Adjusts the sharpness setting.
Magnify	Controls the magnification setting using the $[+] / [-]$ buttons. Use the $[\blacktriangle] [\triangledown] [\blacktriangleleft] [\blacktriangleright]$ buttons to move to the area you want to magnify.
Auto	Performs the automatic adjustment.
Blank	Turns the BLANK screen on/off.

4. Click the button and operate in the same way as the bundled remote control.

Button	Description
Menu	Assigned the same operation as MENU button.
Enter	Assigned the same operation as ENTER button.
Reset	Assigned the same operation as RESET button.
▲	Assigned the same operation as ▲ button.
•	Assigned the same operation as ▼ button.
•	Assigned the same operation as ◀ button.
•	Assigned the same operation as ► button.

3.2 Crestron e-Control[®] (continued)

3.2.2 Tools window



Configures the settings between the projector and Crestron[®] control system. Click the **[Exit]** button to return to the Main window.

NOTE • If two-byte characters are used, the input text or numbers cannot be set correctly.

• Any items on this window cannot be left blank.

1. Crestron Control

Configures the settings of Crestron[®] control system devices.

Item	Description
IP Address	Configures the IP address of the control system.
IP ID	Configures the IP ID of the control system.
Port	Specifies the port number used for communication by the control system.

To apply the settings, click the **[Send]** button.

2. Projector

Configures the network settings of the projector.

ltem	Description
Projector Name	Configures the name of the projector. The length of the Projector Name can be up to 64 alphanumeric characters.
Location	Configures the location name of the projector. You can specify a Location name up to 32 alphanumeric characters.
Assigned To:	Configures the user name for the projector. You can specify a user name up to 32 alphanumeric characters.

The usable symbols are space and the following:

!"#\$%&'()*+,-./:;<=>?@[\]^_`{|}~

To apply the settings, click the **[Send]** button.

3.2 Crestron e-Control[®] - Tools window (continued)

3. Projector (continued)

Configures the network settings of the projector.

ltem	Description
DHCP	Enables DHCP.
IP Address	Configures the IP address when DHCP is disabled.
Subnet Mask	Configures the subnet mask when DHCP is disabled.
Default Gateway	Configures the default gateway when DHCP is disabled.
DNS Server	Configures the DNS server address when DHCP is disabled.

To apply the settings, click the [Send] button.

4. User Password

Configures the User Password. To prompt the entry of User Password before starting e-Control[®], select the checkbox.

Item	Description
New Password	Configures the password. You can specify a password up to 26 alphanumeric characters. The usable symbols are space and the following: $!"#$\%&'()^+,/:;<=>?@[\]^_`{ }~$
Confirm	Reenter the above password for verification. If the password is incorrect, an error message is displayed.

To apply the settings, click the [Send] button.

5. Admin Password

Configures the Admin Password. To prompt the entry of Admin Password before displaying the Tools window, select the checkbox.

Item	Description
New Password	Configures the password. You can specify a password up to 26 alphanumeric characters. The usable symbols are space and the following: !"#\$%&'()*+,/:;<=>?@[\]^_`{ }~
Confirm	Reenter the above password for verification. If the password is incorrect, an error message is displayed.

To apply the settings, click the **[Send]** button.

3.2 Crestron e-Control[®] (continued)

3.2.3 Info window



Displays the current settings and status of the projector. Click the **[Exit]** button to return to the Main window.

1. Projector Information

Item	Description
Projector Name	Displays the projector name settings.
Location	Displays the location name of the projector.
MAC Address	Displays the wired LAN MAC address of the projector.
Resolution	Displays the resolution and vertical frequency of the signal input selected on the projector.
Lamp Hours	Displays the usage time for the lamp.
Assigned To:	Displays the user name for the projector.

2. Projector Status

Item	Description
Power Status	Displays the power status.
Input Source	Displays the input signal source.
Picture Mode	Displays the picture mode setting.
Installation	Displays the installation setting.
Eco Mode	Displays the eco mode setting.
Error Status	Displays the error status.

NOTE • Projector Name, Location and the user name for Assigned To: may appear truncated if they are too long.

3.2 Crestron e-Control[®] (continued)

3.2.4 Help Desk window



Sends/receives messages to/from the administrator for Crestron RoomView[®] Express.

Button	Description
Send	Sends a message.
×	Checks the received message.
3.2 Crestron e-Control[®] (continued)

3.2.5 Emergency Alert



When the administrator for Crestron RoomView[®] Express sends out an alert message, it will be displayed on the screen.

You can reply to the alert message via a chat format. Input a message in the box below the alert message, and click the **[Send]** button.

NOTE • For details of Emergency Alert, refer to the manual of Crestron RoomView[®] Express.

• The alert message from Crestron RoomView[®] is displayed on the screen of the projector in the way similar to the real-time text of the Messenger function. (**18**0) If another real-time text is displayed on the screen, it will be overwritten by the alert message. However, if the priority of the real-time text is set to high, the alert message does not appear on the screen. For details, refer to the manual for the application of the Messenger.

4. Network Presentation

4.1 Outline

The projector can display or play back the computer screen images and audio data that are transmitted through the network. This Network Presentation feature helps you to smoothly make your presentations and conduct conferences.



To use Network Presentation, an exclusive application, "LiveViewer" is required. It can be installed from the bundled application CD.

For details of Network Presentation and instructions to install the "LiveViewer", refer to the manual for "LiveViewer".

NOTE • The use of "LiveViewer" function depends on the model you are using. If you want to use the latest "LiveViewer", please refer to the appropriate group item in the "LiveViewer" User's Manual. This model will be in the Group of G.

• For Mac user, download the software from the website.

Refer to 2-5. Applications.

4.2 Display Mode

LiveViewer has two display modes, Single PC mode and Multi PC mode.

4.2.1 Single PC mode

The Single PC mode can display images in full screen from one computer to the projector/switcher via wireless LAN or wired LAN.

Presenter Mode

In the Single PC mode, the projector can be occupied by one computer and can block access from any other computers (if Presenter Mode is set to ON in LiveViewer). While making your presentation, you don't need to worry that the image on screen will be unexpectedly switched to an image sent by another computer. Presenter Mode can be set to ON in the option menu in the LiveViewer.

4.2.2 Multi PC mode

The projector can display images of up to four computers connected at the same time.



4.3 Multi Projector Mode

In the Multi Projector/Multi Display mode, up to 12 projectors or switchers connected to projectors can connect with the computer via wireless or wired LAN simultaneously.



This function is for Windows users only.

4.4 Moderator Control Mode

One computer can be assigned as Moderator (Host) to control all other computers (Clients) or the switchers connected with the projector via wireless LAN or wired LAN. Since Clients cannot control the LiveViewer and the projector, the Host can proceed with the program as arranged smoothly and safely.



This function is for Windows users only.

4.5 Port Number

The port numbers used for LiveViewer are shown below.

Port No.	Protocol	
5500	TCP	
5900	TCP	
9720	TCP	

NOTE

• When other application uses the ports above, LiveViewer and Projector Quick Connection may not work.

5. My Image Function

The projector can display still images transferred via the network. It is possible to allocate up to 4 image files.



MY IMAGE transmission requires an exclusive application for your computer. Use the application to transfer the image data.

For information on the necessary settings and operations for the computer and projector, refer to the manual for the application.

To display the transferred image, select the MY IMAGE item in the NETWORK menu. For more information, please see the description of the MY IMAGE item of the NETWORK menu.

NOTE • Using MY BUTTON registered as MY IMAGE can display transferred image. (COPTION menu in the Operating Guide)

• The image file also can be displayed by using schedule function from the web browser. ($\square 92$)

• If you display MY IMAGE data on screen while you are using the USB Display function, the application for the USB Display will be closed. To restart the application, exit the MY IMAGE function, and then the software in the projector, LiveViewerLiteForUSB.exe, will run again. (IIUSB Display in the Operating Guide)

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

6. Messenger Function

6.1 Outline

The projector can display text data transferred via the network on the screen and play back audio data inside the projector.

The text data can be displayed on the screen in two ways. One is to display the text transferred from the computer on real time, and the other is to choose the text data stored in the projector and display it.

It is possible to store up to 12 text data.



Synchronization of	Send/Get			
the background color and character background color	Saved number	Quedk 💌	192-168.10.100	1
Character display mode		ertup Display	Maria and	Send
		play on	Display off	Get

Messenger function requires an exclusive application for your computer. To edit, transfer and display the text data, use the application.

For information on the necessary settings and operations for the computer and projector, refer to the manual for the application.

6.2 Supported Languages

The languages that can be displayed by Messenger function are shown below.

English, French, German, Spanish, Italian, Norwegian, Dutch, Portuguese, Swedish, Finnish, Danish, Brasileiro, Indonesian, Lithuanian, Estonian, Latvian, Polish, Czech, Hungarian, Slovenian, Croatian, Russian, Turkish, Greek, Japanese, Simplified Chinese, Traditional Chinese, Korean, Vietnamese

6.3 Display Style

There are 4 types of message display style. The following is the description of each type.

1) Scroll The message scrolls to the left in the message display area.







3) Pop on

The message is displayed in full view in the square message display area.



4) Picture Side The message is displayed in the message display area on the right or left. This style is available only for WXGA and WUXGA model projector.

NOTE • Using **MY BUTTON** registered as MESSENGER can turn the displaying messenger text on/off. (COPTION menu in the Operating Guide) • The text file also can be displayed by using schedule function via the web browser. (COPTION is a schedule function via the web browser.

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

7. Network Bridge Function

This projector is equipped with the NETWORK BRIDGE function to perform mutual conversion of a network protocol and a serial interface.

By making use of the NETWORK BRIDGE function, a computer connected to the projector via wireless or wired LAN is able to control an external device via RS-232C communication using the projector as a network terminal.



7.1 Connecting devices

- 1) Connect the projector's **LAN** port to the computer's LAN port with a LAN cable, or insert the USB wireless adapter into the **USB TYPE A** port.
- 2) Connect the projector's **CONTROL** port and the device's RS-232C port with an RS-232C cable, for RS-232C communication.

NOTE • Before connecting the devices, read the manuals for the devices to ensure the connection. For RS-232C connection, check the specifications of each port and use the suitable cable. (Connection to the ports in the Operating Guide - Technical)

7.2 Communication setup

To configure the setup of the communication using NETWORK BRIDGE for the projector, use items in the COMMUNICATION menu. Open the menu of the projector and select the OPTION - SERVICE - COMMUNICATION menu. (COPTION menu > SERVICE > COMMUNICATION in the Operating Guide)

- 1) In the COMMUNICATION TYPE menu, select NETWORK BRIDGE (WIRELESS or WIRED depending on the type of connection you use) for the **CONTROL** port.
- Using the SERIAL SETTINGS menu, select the proper baud rate and parity for the CONTROL port, according to the specification of the RS-232C port of the connected device.

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

3) Using the TRANSMISSION METHOD menu, set up the proper method for the **CONTROL** port according to your use.

NOTE • The OFF is selected for the COMMUNICATION TYPE as the default setting.

• Using the COMMUNICATION menu, set up the communication. Remember that an unsuitable setup could cause malfunction of communication.

• When either one of the NETWORK BRIDGE settings is selected in the COMMUNICATION TYPE menu, RS-232C commands cannot be received from the **CONTROL** port.

7.3 Communication port

For the NETWORK BRIDGE function, send the data from the computer to the projector with using the Network Bridge Port configured in the Port Settings of web browser. ($\square 45$)

NOTE • Except for 41794, 9715, 9716, 9719, 9720, 5900, 5500, 4352 between 1024 and 65535 can be set up as the Network Bridge Port number. It is set to 9717 as the default setting.

7.4 Transmission method

The transmission method can be selected from the menus, only when the NETWORK BRIDGE is selected for the COMMUNICATION TYPE. (■OPTION menu > SERVICE > COMMUNICATION in the Operating Guide) HALF-DUPLEX ↔ FULL-DUPLEX

7.4.1 HALF-DUPLEX

This method lets the projector make two way communication, but only one direction, either transmitting or receiving data, is allowed at a time.

The method does not allow the projector to receive the data from the computer while waiting for response data from an external device. After the projector receives the response data from an external device or the response limit time is past, the projector can receive the data from the computer.

That means that the projector controls transmitting and receiving the data to synchronize the communication.

To use the HALF-DUPLEX method, set up the RESPONSE LIMIT TIME following the instructions below.



Using the RESPONSE LIMIT TIME menu, set the waiting time for response data from an external device. (COPTION menu > SERVICE > COMMUNICATION in the Operating Guide)

 $OFF \leftrightarrow 1s \leftrightarrow 2s \leftrightarrow 3s (\leftrightarrow OFF)$

7.4 Transmission method (continued)

NOTE • With using the HALF-DUPLEX method, the projector can send out 254 byte data at the maximum at a time.

• If it is not required to monitor the response data from an external device and the RESPONSE LIMIT TIME is set to OFF, the projector can receive the data from the computer and send it out to an external device continuously. The OFF is selected as the default setting.

7.4.2 FULL-DUPLEX

This method lets the projector make two way communication, transmitting and receiving data at the same time, without monitoring response data from an external device.

With using this method, the computer and an external device will send the data out of synchronization. If it is required to synchronize them, set the computer to make the synchronization.

NOTE

• When the computer controls the synchronization of receptions and transmissions, the external device may not be controlled properly depending on the status of data processing of the projector.

8. Other Functions

8.1 E-mail Alerts

The projector can automatically send an alert message to the specified e-mail addresses when the projector detects a certain condition that is requiring maintenance or detected an error.

NOTE • Up to five e-mail addresses can be specified.

• The projector may be not able to send e-mail if the projector suddenly loses power.

• This function is not available if you use a mail server requiring authentication to send a mail.

• Mails may not be sent correctly depending on the mail environment you are using.

Alerts available to E-mail alerts are as follows.

Item	Description	
Cover Error	The lamp cover has not been properly fixed.	
Fan Error	The cooling fan is not operating.	
Lamp Error	The lamp does not light, and there is a possibility that interior portion has become heated.	
Temp Error	There is a possibility that the interior portion has become heated.	
Air Flow Error	The internal temperature is rising.	
Cold Error	There is a possibility that the interior portion has become overcooled.	
Filter Error	Filter time over.	
Other Error	Errors other than the above. If this error is displayed, please contact your dealer.	
Schedule Execution Error	Failed to execute scheduled events.	
Lamp Time Alarm	Lamp Time has exceeded the specified alarm limit.	
Filter Time Alarm	Filter Time has exceeded the specified alarm limit.	

(continued on next page)

NOTE • The timing of receiving Filter Error e-mail is depending on the FILTER MESSAGE setting in the SERVICE item of the OPTION menu which determines the period until the filter message is displayed on the projector screen. An e-mail will be sent when the usage time of the filter exceeds the set time limit. No notification e-mail will be sent if the FILTER MESSAGE is set to TURN OFF. (COPTION menu in the Operating Guide)

• Lamp Time Alarm is a threshold for e-mail notification of the lamp time. When the set time exceeds the limit configured in the Projector Web Control, an e-mail will be sent.

• Filter Time Alarm is a threshold for e-mail notification of the filter time. When the set time exceeds the limit configured in the Projector Web Control, an e-mail will be sent.

To use the projector's e-mail alert function, please configure the following items through a web browser.

Mail Settings (46)

1) Select [Mail Settings] on main menu in Projector Web Control.

2) Configure each item in Mail Settings page. Refer to item 3.1.5 Mail Settings (**1**46) for further information.

3) Click the [Apply] button to save the settings.

4) Click the **[Send Test Mail]** button to confirm that the e-mail settings are correct.

The following mail will be delivered to the specified addresses.

Subject line: Test Mail < Projector name>

Text : Send Test Mail

Date Time IP Address MAC Address <Testing date> <Testing time> <Projector IP address> <Projector MAC address>

Alert Settings (47)

1) Select [Alert Settings] on main menu in Projector Web Control.

2) Select and configure each alert item. Refer to item 3.1.6 Alert Settings (447)

for further information.

3) Click the [Apply] button to save the settings.

Failure/Warning e-mails are formatted as follows:

Subject line: <Mail title> <Projector name>

Text : < Mail text>

Date	<failure date="" warning=""></failure>
Time	<failure time="" warning=""></failure>
IP Address	<projector address="" ip=""></projector>
MAC Address	<projector address="" mac=""></projector>

8.2 Projector Management using SNMP

The SNMP (Simple Network Management Protocol) enables to manage the projector information, which is a failure or warning status, from the computer on the network.

NOTE • It is recommended that SNMP functions are executed by a network administrator.

• SNMP management software must be installed on the computer to monitor the projector via SNMP.

Standard MIB (MIB-2)

You can refer the following items defined in system group of Standard MIB (MIB-2).

Item	Description	
sysName	Projector name is set.	
sysLocation	The information on where it is located. It has character string set in sysLocation (SNMP) in Projector Web Control - [Network Settings] - [Common Setup].	
sysContact	The information on the administrator's contact information. It has character string set in sysContact (SNMP) in Projector Web Control - [Network Settings] - [Common Setup].	

Enhanced MIB

You can get configuration information by using Enhanced MIB for projectors. Enhanced MIB for projectors can be downloaded from [Port Settings] page in Projector Web Control.

Trap

When an error or warning occurs in the projector, a notification can be sent to the specified address.

In addition to e-mail alert shown in 8.1 Email Alerts ($\square 87$), the following notification can be sent.

Item	Description
Cold Start	 When the projector is supplied with the power, it works as below. If the STANDBY MODE is set to the NORMAL: the projector's power status changes from "OFF" to "Standby state". If the STANDBY MODE is set to the SAVING: the projector's power status changes from "Standby state" to "ON (lamp is turned on)". (ISETUP menu in the Operating Guide).
Authentication Failure	The SNMP access is detected from the invalid SNMP community.

Setup the following functions through WEB browser, if you want to manage the projector by SNMP.

Port Settings (44)

1) Select [Port Settings] on main menu in Projector Web Control.

2) Click the [Download MIB file] to download a MIB file.

3) Click the **[Enable]** check box to open the SNMP Port. Set the address to send the SNMP trap to when a Failure/Warning occurs.

Security Settings (155)

1) Select [Security Settings] on main menu in Projector Web Control.

2) Click the [SNMP] and set the community name on the screen that is displayed.

Alert Settings (47)

Configure the settings for Trap transmission of Failures/Warnings.

1) Select [Alert Settings] on main menu in Projector Web Control.

2) Select the Failure/Warning item to be configured.

3) Click the [Enable] check box to send out the SNMP trap for Failures/Warnings.

Clear the [Enable] check box when SNMP trap transmission is not required.

4) Click the [Apply] button to save the settings.

NOTE • Register the downloaded MIB file to SNMP manager program to be used. • Be sure to execute Network Restart when the settings of **[Port Settings]** or **[Security Settings]** is changed.

8.3 Event Scheduling

The scheduling function enables to setup scheduled events including power on / power off. It enables to be "self-management" projector.

Installing the battery is required if you want to use under the conditions that STANDBY MODE is set to SAVING(Refer to Operating Guide – OPTION) or the AC power is turned off. (Refer to User's Manual (concise))

Note the following before setting the schedule.

NOTE • Schedule can also be set in OPTION - SCHEDULE menu of the projector. (Refer to Operating Guide – OPTION).

• A maximum of 16 programs of schedule can be set. A maximum of 20 events can be registered in 1 program.

• No events are registered in program 1 - 16 with factory default settings. The program is required to be set in advance when using the schedule function for the first time.

• The priority for scheduled events is as follows 1) specific date 2) weekly

• Up to five specific dates are available for scheduled events. Priority is given to those with the lower numbers when more than one event has been scheduled for the same date and time (e.g., 'Specific date No. 1' has priority over 'Specific date No. 2' and so on.

• The power on event has the lowest priority among all the events that are set at the same time.

• Be sure to set the date and time before enabling scheduled events. (453)

• After the projector is moved, check the date and time set for the projector before configuring the schedules.

• The internal clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time.

Certain error state in the projector (such as temperature error, lamp error) will prevent the projector from appropriate execution of scheduled functions/events.
Events "My Image" and "Messenger" will not be executed appropriately and

• Events "My Image" and "Messenger" will not be executed appropriately and result in "schedule execution error" status when the lamp does not light and/or data to be displayed are not stored in the projector at the time when scheduled event is executed.

• Events "**Input Source**" and "**My Image**" is not executed if security function is enabled and the projector is locked due to the function.

• If no USB memory device is inserted to the projector or no image data for display exists at the scheduled event time, a schedule execution error occurs against the scheduled Slideshow event.

• When you start the Slideshow, input source will be automatically switched to the **USB TYPE A** port.

• Image files stored in the root directory of the USB memory device will be displayed for the scheduled Slideshow.

The procedure to set the schedule in Projector Web Control is described in the following.

Setting the program is necessary to use the schedule function. Various events such as power on/off or switching input source, and the time to execute the events are to be registered in the program. No events are registered in program 1 - 16 with factory default settings. Set the program following the steps below. In the case that the program has already been set, skip to step 6).

1) Select [Schedule Settings] on main menu in Projector Web Control.



2) Select the program number in dropdown list under Program List and click the **[Program Edit]** button to display the following program edit display. The display for editing Program-1 is shown below.



3) After setting the time, events and parameters, click the **[Register]** to add the new event.

Click the [Delete] button when you want to delete an event.

Click the **[Delete All]** button when you want to delete all the events in the currently selected program.

4) When you want to edit the program with other number continuously, select the program you want to edit in dropdown list and click the **[Select]** button to display the display for editing the selected program.

5) Click the **[Back]** button to go back to schedule management screen after finishing the program setting.

The procedure to assign the program set in the step $1) \sim 5$) to the schedule is described in the following.

6) Click the checkbox of the schedule to be executed (e.g. Click the checkbox of "Monday", when it is to be executed on Mondays) in the schedule management screen.

7) Select the program to be executed in dropdown list. You can confirm the event information registered in each program in the program list on the bottom of the screen.

When setting the Specific date No.1 \sim 5, enter the date (month/day).

8) Click the **[Apply]** button to save the schedule settings in the projector. Repeat step 6) \sim 8) similarly to set the schedule you want to execute.

The schedule settings are now complete.

Finally, confirm the time stored in the projector is correctly set.

■How to copy the program

When you copy the currently selected program to other program, click the checkbox under icon. Click the **[Copy to]** button after selecting the program to which you want to copy in dropdown list.

The same program as the currently selected one cannot be specified as the program to which you want to copy.

Program List





8.4 Command Control via the Network

You can configure and control the projector via the network using RS-232C commands.

Communication Port

The following two ports are assigned for the command control.

```
TCP #23 (Network Control Port1 (Port: 23))
TCP #9715 (Network Control Port2 (Port: 9715))
```

NOTE • Command control is available only via the specified port above.

Command Control Settings (44)

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

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter "http://192.168.1.10/" into the address bar of the web browser, and select Projector Web Control from the selection window.
- 2) Enter your user name and password, and then click the [OK].
- 3) Click the [Port Settings] on the main menu.



- 4) Click the **[Enable]** check box to open **Network Control Port1 (Port: 23)** to use TCP #23. Click the **[Enable]** check box for the **[Authentication]** setting when authentication is required, otherwise clear the check box.
- 5) Click the **[Enable]** check box to open **Network Control Port2 (Port: 9715)** to use TCP #9715. Click the **[Enable]** check box for the **[Authentication]** setting when authentication is required, otherwise clear the check box.
- 6) Click the [Apply] button to save the settings.

When the authentication setting is enabled, the following settings are required. ($\square 55$)

- 7) Click the [Security Settings] on the main menu.
- Click the [Network Control] and enter the desired authentication password.
 * See NOTE.
- 9) Click the [Apply] button to save the settings.

NOTE • The Authentication Password will be the same for Network Control Port1 (Port: 23), Network Control Port2 (Port: 9715), PJLink[™] Port (Port: 4352), My Image Port (Port: 9716) and Messenger Port (Port: 9719). • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from Network Restart on the main menu. (□63)

Command Format

Command formats differ among the different communication ports.

• TCP #23

You can use the RS-232C commands without any changes. The reply data format is the same as the RS-232C commands. (LRS-232C Communication in the Operating Guide - Technical)

However, the following reply will be sent back in the event of authentication failure when authentication is enabled.

<Reply in the event of an authentication error>

Reply	Error code		
0x1F	0x04	0x00	

• TCP #9715

Send Data format

The following formatting is added to the header (0 x 02), Data length (0 x 0D), Checksum (1 byte) and Connection ID (1 byte) of the RS-232C commands.

Header	Data lei	ngth	RS-232Ccommand	Check Sum	Connection ID
0x02	0x0)	13 bytes	1 byte	1 byte
Header Data length RS-232C cor	mmand	\rightarrow	0x02, Fixed RS-232C commands byte length (0x0D, Fixed) RS-232C commands that start with 0xBE 0xEF (13 bytes)		
Check Sum		\rightarrow	This is the value to make ze lower 8 bits from the header		
Connection I	D	\rightarrow	Random value from 0 to 255 to the reply data)		

Reply Data format

The connection ID (the data is same as the connection ID data on the sending data format) is attached to the RS-232C commands reply data.

<ACK reply>

Reply	Connection ID
0x06	1 byte

<NAK reply>

Reply	Connection ID
0x15	1 byte

<Error reply>

Reply	Error code	Connection ID
0x1C	2 bytes	1 byte

<Data reply>

Reply	Data	Connection ID
0x1D	2 bytes	1 byte

<Projector busy reply>

Reply	Status code	Connection ID
0x1F	2 bytes	1 byte

<Authentication error reply>

Reply	Authentication Error code		Connection ID
0x1F	0x04	0x00	1 byte

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) Connect 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.

8.5 Crestron RoomView[®]

Crestron RoomView[®] is a multi-user resource management program provided by Crestron Electronics, Inc. It is an application for managing and controlling the projector and other AV devices collectively.

For details of Crestron RoomView®, refer to the Crestron® website.

URL: http://www.crestron.com

The following communication interfaces can be used to manage the entire facility.

1) Crestron RoomView[®] Express / Crestron RoomView[®] Server Edition RoomView[®] Express and RoomView[®] Server Edition are software provided by Crestron Electronics, Inc. They are used for managing all the AV devices, and are also able to communicate with the help desk as well as send out alert messages.

For details of the software, refer to the following website.

URL: http://www.crestron.com/getroomview

2) Crestron e-Control®

Crestron e-Control[®] is a system controller that can be operated via a web browser. ($\square 65$)

9. Troubleshooting

Phenomenon: Cannot communicate with the projector. (Wired network)

	-
Item to be checked	Solutions
Is the projector turned on?	Turn on the projector.
Is the network device such as a router, etc. turned on?	Turn on the network device.
Is STANDBY MODE set to SAVING?	The network function is not available when STANDBY MODE is set to SAVING. If you want to use the network function in the standby mode, set to NORMAL.
Is LAN cable connected?	Connect the LAN cable.
Is MAC address displayed correctly in the NETWORK INFORMATION – WIRED menu?	Contact your dealer when MAC address on the label put on the projector does not match MAC address displayed in the NETWORK INFORMATION – WIRED menu.
Are the network settings such as IP address set correctly?	Check the network settings in the NETWORK INFORMATION – WIRED menu. Consult with your network administrator for details.
Is firewall or packet filtering set in a router, etc.?	Consult with your network administrator.
Is the same network address set for wireless LAN and wired LAN of the projector?	The same network address cannot be used for wireless LAN and wired LAN. Set different network address for wireless LAN and wired LAN.
Is the wired network adapter of the computer enabled?	Refer to the user's manual for the computer and enable the wired network adapter.

Phenomenon: Cannot communicate with the projector. (Wireless network)

Item to be checked	Solutions
Is the projector turned on?	Turn on the projector.
Is the network device such as an access point, etc. turned on?	Turn on the network device.
Is STANDBY MODE set to SAVING?	The network function is not available when STANDBY MODE is set to SAVING. If you want to use the network function in the standby mode, set to NORMAL.
Are the network settings such as IP address set correctly?	Check the network settings in the NETWORK INFORMATION — WIRELESS menu. Consult with your network administrator for details.
Is the USB wireless adapter (optional parts: USB-WL-11N) inserted into USB TYPE A port of the projector?	Insert the USB wireless adapter.
Is an optional USB wireless adapter used?	The USB wireless adapter available to this projector is optional USB-WL-11N only.
Is MAC address displayed correctly in the NETWORK INFORMATION — WIRELESS menu?	When MAC address displayed in NETWORK INFORMATION – WIRELESS menu does not match MAC address engraved on the USB wireless adapter, pull out and insert the USB wireless adapter again. If the problem persists, the USB wireless adapter may be broken. Contact your dealer.
Is LED of the USB wireless adapter blinking?	When LED of the USB wireless adapter does not blink in over 1 minute after inserting, pull out and insert the USB wireless adapter again. If the problem persists, the USB wireless adapter may be broken. Contact your dealer.

Phenomenon: Cannot communicate with the projector. (Wireless network) (continued)

Item to be checked	Solutions
Is firewall or packet filtering set in an access point, etc.?	Consult with your network administrator.
Is the wireless network to connect encrypted?	Set the encryption settings of the projector again and reconnect.
Is an encryption method which is not supported by the projector used?	The followings are encryption methods supported by the projector: • WPA2-PSK(AES) • WPA2-PSK(TKIP) • WPA-PSK(AES) • WPA-PSK(TKIP) • WEP128bit • WEP64bit This projector cannot be connected to the wireless network using the encryption methods other than the above.
Is signal strength of wireless network displayed in the SSID SCAN LIST menu weak?	 Put the projector close to the wireless device. When the projector is near the steel door, the radio wave may not reach to the wireless device. In that case, keep the projector away from the door. Consult with your network administrator because there may be an interfering wireless device.
Is 5GHz radio wave used?	The USB wireless adapter (USB-WL-11N) does not support 5GHz, but only 2.4GHz.
Is the same network address set for wireless LAN and wired LAN of the projector?	The same network address cannot be used for wireless LAN and wired LAN. Set different network address for wireless LAN and wired LAN.
Is the wireless network adapter of the computer enabled?	Refer to the user's manual for the computer and enable the wireless network adapter.

Phenomenon: Cannot use wireless LAN and wired LAN at the same time.

Item to be checked	Solutions
	The same network address cannot be used for wireless LAN and wired LAN. Set different network address for wireless LAN and wired LAN.
Are you trying to access to different network via a router?	Either wired LAN or wireless LAN can access to different network. Set default gateway of either wired LAN or wireless LAN to 0.0.0.0.

Phenomenon: Web(Projector Web Control) is not displayed correctly.

Item to be checked	Solutions
Is the correct URL entered in Web browser?	Enter the IP address of the projector in Web browser.
Is JavaScript enabled?	Enable JavaScript. How to set is different depending on the Web browser. Refer to Help of Web browser, etc. for details.
Is recommended Web browser used?	Recommended Web browsers are Internet Explorer 6/7/8/9/10. Projector Web Control may not displayed correctly except in recommended browser.
Is the cache of the screen displayed earlier remaining?	Clear the cache. How to set is different depending on the Web browser. Refer to Help of Web browser, etc. for details.

Phenomenon: Crestron e-Control® is not displayed.

Item to be checked	Solutions
Has Adobe [®] Flash [®] Player been installed?	Adobe [®] Flash [®] Player is required to display Crestron e-Control [®] . Install Adobe [®] Flash [®] Player.
Is Web browser that does not support Adobe® Flash® Player used?	Use a Web browser that supports Adobe [®] Flash [®] Player.
Are Crestron e-Control [®] settings on Network Settings – Other Setup screen of the Projector Web Control disabled?	Enable Crestron e-Control [®] settings on Network Settings – Other Setup screen of the Projector Web Control.

Phenomenon: Cannot send an e-mail correctly.

Item to be checked	Solutions
Is a test e-mail sent correctly?	Check if a test e-mail is sent correctly by pressing the [Send Test Mail] button on the Mail Settings screen of the Projector Web Control.
Are e-mail settings correct?	Check the settings on the Mail Settings screen of the Projector Web Control.
Are the settings of Sender E-mail Address correct?	Set valid e-mail address.
Is only e-mail regarding the specific Error/Warning not sent correctly?	Check if the specific Error/Warning is set to be sent on the Mail Settings screen of the Projector Web Control.

Phenomenon: An e-mail does not reach only to the specific address.

Item to be checked	Solutions
Is e-mail address set correctly?	Check the settings on the Mail Settings screen of the Projector Web Control.
Is filtering or forwarding set for the e-mail address in the mail server?	Consult with your network administrator.

Phenomenon: The schedule is not executed correctly.

Item to be checked	Solutions
Is the projector turned on?	Turn on the projector.
IS STANDBY MODE set to SAVING?	The schedule function is not available when STANDBY MODE is set to SAVING. If you want to use the schedule function in the standby mode, set to NORMAL.
Is the time set correctly?	Check the settings of Date and Time.
Is the image data to be displayed in the schedule function registered? (When the event of My Image is set.)	Register the image data to be displayed with the projector by using exclusive application software.
Is the message data to be displayed in the schedule function registered? (When the event of Messenger is set.)	Register the message data to be displayed with the projector by using exclusive application software.
Is the lamp of the projector lighting?	The event of My Image, Messenger and Blank are not executed when the lamp is not lighting. Set the program of the schedule function so that the event of MyImage, Messenger and Blank can be executed when the lamp is lighting.

Item to be checked	Solutions
Is the program to be executed set correctly?	Check the settings of Schedule Settings of the Projector Web Control.
Are there any events set at the same time?	Some events cannot be executed at the same time. Set them to be executed at the different time or change the order.

* The schedule function may not operate correctly depending on the status of the projector.

Phenomenon: The time settings are not correct.

Item to be checked	Solutions
Is battery set?	Set the battery. The battery is considered to be exhausted if the time is off soon after setting date and time. In that case, replace the battery.
Is the date and time set correctly?	Check the settings of Date/Time Settings menu of the Projector Web Control or DATE AND TIME menu of the projector.
Is the projector connected to the network correctly when getting the time via the network?	Connect to the network.
Is SNTP server set correctly when getting the time via the network?	Check the settings of SNTP server. Consult with your network administrator regarding the settings of SNTP server.
Is the time difference set correctly when getting the time via the network?	When getting the time via the network, the correct time is not displayed if the time difference is not set. Set the time difference.

Phenomenon: Cannot control the external device by using Network Bridge.

Item to be checked	Solutions
Is Network Bridge settings enabled?	Check the settings in OPTION – SERVICE – COMMUNICATION – COMMUNICATION TYPE menu.
Is STANDBY MODE set to SAVING?	The Network Bridge is not available when STANDBY MODE is set to SAVING. Set STANDBY MODE to NORMAL, and set NETWORK BRIDGE (WIRELESS/WIRED) in the COMMUNICATION TYPE menu.
Are the serial settings set correctly?	Check the serial settings of the projector and the external device.

10. Warranty and after-sales service

If an abnormal operation (such as smoke, strange odor or excessive sound) should occur, stop using the projector immediately.

If this does not resolve the problem, please consult your dealer or service company. They will tell you what warranty condition is applied.

Please check the following web address where you may find the latest information for this projector.

http://www.hitachi-america.us/projectors

http://www.hitachiserviceeu.com/support/guides/userguides.htm

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