LCD Projector



8932WB/8933B/8937B/ 8938WB/8945B/8940WB

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** 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.

- ✓ Web Control : allows you to monitor and control the projector through a network from a computer, smartphone and tablet device. (□ 35)
- ✓ Network Presentation : allows the projector to project computer, images transmitted through a network. (□ 76)
- ✓ My Image : allows the projector to store up to four still images and project them. (□80)
- ✓ **Messenger** : allows the projector to display text sent from a computer through a network. ($\square 81$)
- ✓ Network Bridge : allows you to control an external device through the projector from a computer. (□ 84)

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 uses the same firmware, software programs, control code, and accessory parts. The equivalent Dukane to Hitachi models are 8932WB (CP-EW3051WN), 8933B (CP-EX3051WN), 8937WB (CP-EX3551WN), 8938WB (CP-EW3551WN), 8945B (CP-EX4551WN) and 8940WB (CP-EW4051).

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Caution

- Be sure to confirm that the projector has been installed and connected safely even if it is turned on automatically.
- If you connect the projector to an existing network, consult a network administrator before setting server addresses.
- Attaching an optional wireless adapter to the projector enables wireless connection. Follow the cautions below when you use the wireless adapter.

[Restriction on plugging and unplugging the wireless adapter (option)] Before you insert or pull out the 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 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 (option)]

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**. Although the projector has security functions, they do not always guarantee prevention of the risks mentioned above.

 \triangle **CAUTION** \triangleright 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 this projector 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 this projector 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 wireless adapter at locations where there is reinforced steel, other types of metals or concrete is likely to cause radio wave interference.
- Available Channels

This projector uses the 5 GHz and 2.4 GHz 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 this projector 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.
- The W52 is for indoor use only. Outdoor use is prohibited.

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. ($\square 35$)

		Power Vol- Mute Vol+
Common Information		Vote Note Vote
Projector Name	PR2_000000000	Sources List
Westess Information		Computer in 1
Wireless Network	ON	Computer in 2
Mode	Simple Access Point	
DHCP		HDM 2
IP Address	182.188.10.1	Video
Submet Mask	255.255.255.0	Reset
Default Galeway		
DNS Server		Freeze Contrast Brightness Color
MAC Address	0.0.0.0.0.0	Construent transmit
5940	BingleAccessPoint	consider
SSID Broadcast	ON	
Encryption	OFF	Crestron e-Control [®]
Wardens Freq.	2.4 GHu	
Bandwidth	23 98%	
Channel	**	
Speed		
Wired Information		
DHCP	ON	
P Address	182.168.1.10	
	265.265.255.0	
Subret Mask	0.0.0	
Subret Mask Default Galeway DNS Server	60.00	

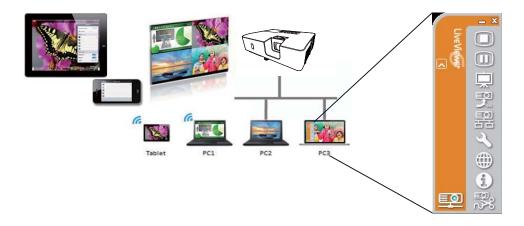
Projector Web Control

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 OS X [®]	LiveViewer
iOS(iPhone/iPad)	Projector Quick Connection
Android	Projector Quick Connection

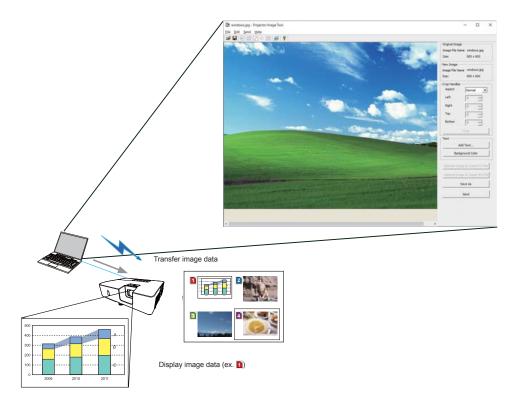


1.3 My Image Function

The projector can display still images transferred via the network.

It is possible to allocate up to 4 image files.

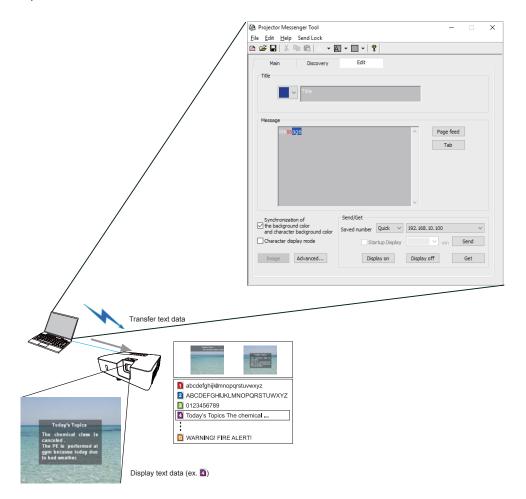
MY IMAGE transmission requires an exclusive application for your computer. Use the application to transfer the image data.



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.

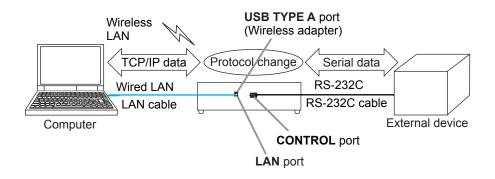
Up to 12 text data can be stored.



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 device.



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 requiring maintenance or detected an error. ($\square 88$)

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. (

2. Connection to the network

The connection method of wireless LAN and wired LAN is as follows.

Wireless LAN (USB-WL-5G)

Item	Description
Standard	IEEE802.11a/b/g/n/ac
Channel ^{*1}	2.4 GHz : 1~11ch 5 GHz : 36/40/44/48ch (W52) 149/153/157/161/165ch (W58)
Encryption*2	WPA2-PSK(AES/TKIP), WPA-PSK(AES/TKIP), WEP(64/128bit)
Bandwidth	2.4 GHz : 20/40MHz 5 GHz : 20/40/80MHz

*1: Available channels may vary according to area.

*2: WEP is only for INFRASTRUCTURE mode.

Wired LAN

Item	Description
Standard	100BASE-TX / 10BASE-T
Port	RJ-45

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

• 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.

• Connect the optional wireless adapter (USB-WL-5G) to the **USB TYPE A** port of the projector when using the wireless LAN. (**Q** *14* in the Operating Guide)

2.1 Connection via wireless LAN

Wireless LAN has two types of connection, Simple Access Point and Infrastructure.



Fig. 2.2.a Without an access point communication (Simple Access Point)



Fig. 2.2.b With an access point communication (Infrastructure)

* Simple Access Point is a mode which connects to computers directly. This projector can assign IP addresses to up to 10 devices.

* 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

• If using a wireless network function, please make sure that NETWORK - WIRELESS NETWORK setting is ON.

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

Wireless LAN initial settings for the projector are as follows. Mode: Simple Access Point IP address: 192.168.10.1 Subnet Mask: 255.255.255.0 SSID: SimpleAccessPoint SSID Broadcast: ON Encryption: OFF Wireless Freq.: 2.4 GHz Channel: 11

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

• Communication speed of the projector may be deteriorated in Simple Access Point mode depending on the number of connected devices.

2.1.1 Connection in Simple Access Point Mode

Set the following when connecting the projector and the computer in Simple Access Point mode.

Projector setting

- 1) Turn on the projector.
- 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 > NETWORK SETUP > WIRELESS SETUP

- 3) Set the following items in WIRELESS SETUP.
 - MODE: SIMPLE ACCESS POINT
 - IP ADDRESS
 - SSID
 - SSID BROADCAST
 - ENCRYPTION

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

About network settings

- · The fourth octet of the projector's IP address is fixed to 1.
- Subnet mask of the projector is fixed to 255.255.255.0.

Computer setting

- 1) The DHCP server function of the projector is always enabled. Enable the DHCP setting of the computer.
- 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 the computer or wireless LAN device.

• Up to 10 devices can be connected to the projector in Simple Access Point mode.

ADVANCED MENU	()select
PICTURE SIMAGE IMAGE IMAGE IMAGE IMAUT AUDIO SCREEN OPTION OFTION SECURITY EXIY EXIY	A. NETVORK INFORMATION Solutions in the service of the se
4 VIRELESS SETUP	COMPUTER IN 1 1024 x 768 @50Hz
M SSID SCAN LIST	
C MODE	SIMPLE ACCESS POINT
19 DHOP	OFF
P ADDRESS SURNET HASK DEFAULT GATEWAY DOS SERVER SSID SSID BROADCAST ENCRYPTION	192, 198, 10, 1 295, 295, 595, 0 0, 0, 0, 0 3 sapuk-cesePoint 0 0FF
SUBNET WASK DEFAULT CATEWAY DIS SERVER SSID SSID BROADCAST	255, 255, 255, 0 0, 0, 0, 0 0, 0, 0, 0 SimpleAccessPoint ON

2.1.2 Connection in Infrastructure Mode

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

Projector setting

- 1) Turn on the projector.
- 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 > NETWORK SETUP > WIRELESS SETUP

3) Set the following items in WIRELESS SETUP.

- MODE: INFRASTRUCTURE
- DHCP
- IP ADDRESS
- SUBNET MASK
- DEFAULT GATEWAY
- DNS SERVER
- SSID
- ENCRYPTION

SSID SCAN LIST		
ET MODE	INFRASTRUCTURE	
A DHCP	OFF	
P IP ADDRESS	192, 168, 10, 254	
SUBNET WASK	255, 255, 255, 0	
DEFAULT CATEWAY	0.0.0.0	
In DNS SERVER	0.0.0.0	
E SSID	wirelass	
CONTRACTOR OF THE OWNER OWNE		
ELENCRYPTION		

As for setting an IP address, refer to About IP address. (419)

Select APPLY, then press the $\ensuremath{\mathsf{ENTER}}$ 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 - NETWORK SETUP.

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 (**I**) 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.

• IP ADDRESS, SUBNET MASK, and DEFAULT GATEWAY should be set in advance when DHCP is set to OFF.

• When DNS SERVER at DHCP OFF is set to other than "0.0.0.0", this projector uses user setting at DHCP OFF as DNS server address even if DHCP is set to ON and the projector can automatically obtain DNS SERVER setting from DHCP server.

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.



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 > NETWORK SETUP > 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. (49) 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, DEFAULT GATEWAY and DNS SERVER.

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.

• When DNS SERVER at DHCP OFF is set to other than "0.0.0.0", this projector uses user setting at DHCP OFF as DNS server address even if DHCP is set to ON and the projector can automatically obtain DNS SERVER setting from DHCP server.

2.3 Applications

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

http://www.dukaneav.com http://www.hitachi-america.us/projectors http://www.hitachidigitalmedia.com/ http://www.hitachiconsumer.com.sg

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

http://www.hitachiconsumer.com.sg

[System Requirements for Applications]

Application	Hardware and Software
LiveViewer	Refer to the manual of the
Projector Quick Connection	application for details.
Projector Image Tool (PJImg)	
Projector Messenger Tool (PJMessenger)]

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2.4 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.



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

• If you do not use SNTP, then you must set the DATE AND TIME during the initial installation. (COPTION menu in the Operating Guide)

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

• When using wireless network function, set NETWORK - WIRELESS NETWORK to ON.

ltem	Description	
NETWORK INFORMATION	Displays the network information of the projector. • WIRELESS INFORMATION • WIRED INFORMATION • OTHER INFORMATION	
	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.	
WIRELESS NETWORK	Switches ON/OFF of wireless network function.	

Item		Description	
	· ·	ireless network. alues are saved g "APPLY". * VIRLESS SETUP * DESC SCALLEST * DESC SCA	
	 Configured values are not saved if Menu disappears before selecting "APPLY". Be sure to execute "APPLY" after changing the settings. 		
NETWORK SETUP / WIRELESS SETUP	SSID SCAN LIST	Searches available wireless network and displays the list of SSID. You can select SSID to connect from the list. (1) SSID on available wireless network is displayed after selecting SSID SCAN LIST and press the ► button.	

ltem			Description
NETWORK SETUP / WIRELESS SETUP (continued)	SSID SCAN LIST (continued)	(2) Select S press the D the encrypt Enter the c Move the c or -© butto	Description The projector is connecting to the wireless etwork. The wireless network is encrypted. The intensity of radio wave. SSID that you want to connect and → or ENTER button. The display to enter tion key appears if SSID is encrypted. haracters by using software keyboard. Fursor to OK and press the ►, ENTER in after entering. RENCRYPTION KEY CONCEL CANCEL CANCEL CON

ltem	Description	
NETWORK SETUP / WIRELESS SETUP (continued)	SSID SCAN LIST (continued)	 (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 ENCRYPTION LOCK : Encryption Lock enabled INOTE · Encryption settings cannot be changed when encryption lock is enabled in Network Settings – Wireless Setup in Projector Web Control. Refer to Encryption Lock. (<i>Q 43</i>) 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 (1) is displayed in SSID SCAN LIST when the connection is complete.

ltem		Description
	SSID SCAN LIST (continued)	Image: Stable Schwildstrip Image: Stable Schwildstrip Stable Stable Schwildstrip Image: Stable Schwildstrip
NETWORK SETUP / WIRELESS SETUP (continued)		Switches between SIMPLE ACCESS POINT and INFRASTRUCTURE. Select the mode of the network communication system. Select according to the settings of your computer. SIMPLE ACCESS POINT INFRASTRUCTURE
	MODE	 NOTE The setting changed before switching MODE without selecting "APPLY" is cancelled. When switching MODE, it takes 60 seconds to be able to use wireless LAN. In the meantime, the operating speed of the projector may be decreased and NETWORK INFORMATION may not be displayed correctly.

ltem		Description
	DHCP	Configures whether IP address is automatically obtained or not. Use the ▲/▼ buttons to turn DHCP on/off. ON ⇔ OFF This function is not available in SIMPLE ACCESS POINT mode.
NETWORK SETUP	IP ADDRESS	[MODE:SIMPLE ACCESS POINT] Refer to "Connection in Simple Access Point Mode".(1175) [MODE:INFRASTRUCTURE] Configures the IP address when DHCP is OFF.
WIRELESS SETUP (continued)	SUBNET MASK	[MODE:SIMPLE ACCESS POINT] This setting is fixed to 255.255.255.0. [MODE:INFRASTRUCTURE] Configures the subnet mask when DHCP is OFF.
	DEFAULT GATEWAY	Configures the default gateway when DHCP is OFF. This function is not available in SIMPLE ACCESS POINT mode.
	DNS SERVER	Configures the DNS server when DHCP is OFF. This function is not available in SIMPLE ACCESS POINT mode.

ltem		Description
	SSID	Configures SSID for wireless network. Enter SSID by using software keyboard. Refer to PROJECTOR NAME (<i>30</i>) for how to use software keyboard.
	SSID BROADCAST	Configures SSID BROADCAST. When this function is set to OFF, SSID of the projector is not displayed in wireless connection list of the device. This function is not available in INFRASTRUCTURE mode.
NETWORK SETUP / WIRELESS SETUP (continued)	ENCRYPTION	Select the encryption method to be used. WPA2-PSK(AES) ⇔ WPA2-PSK(TKIP)

ltem	Description		
	Configures wired network. Configured values are saved after selecting "APPLY".		
		ting "APPLY". execute "APPLY" after changing the settings.	
NETWORK SETUP /	DHCP	Configures whether IP address is automatically obtained or not.	
WIRED		ON ⇔ OFF	
SETUP	IP ADDRESS	Configures the IP address when DHCP is OFF.	
	SUBNET MASK	Configures the subnet mask when DHCP is OFF.	
	DEFAULT GATEWAY	Configures the default gateway when DHCP is OFF.	
	DNS SERVER	Configures the DNS server when DHCP is OFF.	
	SNTP SERVER	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.	
NETWORK SETUP /		They are entered by using software keyboard. Refer to PROJECTOR NAME(3 0) for how to use software keyboard.	
SNTP SETUP	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 website. Refer to 5. My Image Function (1 80) for the details of MY IMAGE. Select an item of still image by the MY IMAGE and the ► or ENTER button to display the image.
MY IMAGE	 The item without stored image cannot be selected. Each image name is displayed in 16 characters or less.
WITIWAGE	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.

Item	Description	
		Use the ▲/▼ buttons to turn the AMX Device Discovery on/off.
	AMX D.D. (AMX Device Discovery)	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 website. <u>URL: http://www.amx.com/</u>
EXTERNAL CONTROL	CRESTRON	Use the ▲/▼ buttons to turn the Crestron Connected [™] on/off. ON ⇔ OFF
		When ON is selected, controlling and managing the projector can be performed by using the controllers of Crestron [®] connected to the same network. For the details of Crestron Connected [™] , visit the following website. <u>URL: http://www.crestron.com/</u>

Item	Description		
	To use Network Presentation, an exclusive application is required. Refer to 4. Network Presentation (17 6) for the details of Network 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.	
OTHER OPERATION	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 ▲/▼/◀/► 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		
OTHER OPERATION (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 - 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 input status, and set e-mail or schedule, etc. in Projector Web Control.

Recommended web browser

- Internet Explorer[®] 11
- Microsoft[®] Edge

Web Control cannot be displayed by old versions of the browser. Please use the latest version.

Network Information		
Common Information		
Propulsor Rame	PRI RECENTION	
Worksa Information		
Western Natural	ow	
Mode	Simie Access Paint	
DHCP		
IP Address	18246.10.1	
Bulavet Marik	204204.204.0	
Default Galeway		
DNG Berver		
MAC Address	0.10.0.0.0	
850	SiminAccessPaint	
850 Brantant	CM	
Encryption	011	
Wowless Freq.	2.4 ma	
Bancheidth	20 94z	
Charmel	**	
Sport		
Waved Information		
DHCP	04	
P Address	982368.5.50	
Entered Maca	288,556.255.0	
Default Galeway	0.0.0	
DMS Berver	68.0	
MAC Address	888333	

NOTE

• Web browsers other than recommended ones may not work.

• 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.



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[®].

- In any of the following cases, Crestron e-Control® cannot be used.
- Network Settings Other Setup Crestron e-Control is "Disable" (47)
- Network Settings Common Setup Crestron is "OFF" (42)
- NETWORK menu EXTERNAL CONTROL CRESTRON is "OFF" (432)

Access from Web browser

- 1) Please start a Web browser of device.
- 2) Enter the projector's IP address into URL input box of the Web browser as the example below, and then press the Enter key.

Example: If the IP address of the projector is set to 192.168.1.10. "http://192.168.1.10/"

3) 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.



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. (LSCREEN 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	
Microsoft Edge	
The server 192.168.1.10 is aski password. The server reports t	
User name	
User name Password	

User name	Administrator	
Password	<blank></blank>	

Login window

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

•	Proector Web Control	00
Network Information		
Common Information		
Propertor Name	Phi_2000000000	
Worksa Information		
Western Hotsort	ow	
Mode	Simple Access Paint	
DHCP		
IP Address	182,462,12.1	
Bullmet Marik	2012/01/2014	
Default Galaxiesy		
DNS Berver		
MAC Address		
860	BimpleAccess@pint	
150 Brantant	ow	
Encryption	Orie	
Workess Freq.	2.4 5%	
Bandwidth	25 994	
Channel Speed		
Wired Information		
DHCP	ow	
If Address	182368.5.10	
Enteret Mack	268,256,296,0	
Default Galeway	6810	
DNS Server	6.81.0	
MAC Address	налаха	

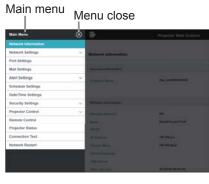
Displaying the Main menu and Option menu.

In the Header area of the upper part of the screen, the following operations are available.

Item	Description
(Menu)	Displays the Main menu. The detailed screen is displayed by clicking on the item in the Main menu. The Main menu can be closed by clicking the Close button or outer area of the Main menu.
C (Reload)	Updates the screen.
(Option)	Opens or closes the Option menu. The computer screen or the mobile screen can be selected by Option menu.







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

3.1.2 Network Information

Displays the network setting information of the projector.

Projector Name PAJ_0000000000 Wreleas Information OH Made Imple Access Point Direp Imple Access Point Direp Imple Access Point Statum Mask 05 Statum Direp Imple Access Point Direp Imple Access Point Direp Imple Access Point Statum Mask 05 Statum Direp Imple Access Point Statum Mask Imple Access Point Wreleas Freis Imple Access Point Statum Access Point Imple Access Point Wreleas Freis Imple Access Point	Vetwork Information		
Workess Network 04 Workess Network 04 Mode Dimper IP Address 02 545 15 1 Schoort Mask 02 545 35 8 Orkshow 05 547 000 000 000 000 000 000 000 000 000 0	Common Information		
ON Modes Bingle Access Point DirCP	Projector Name	PRJ_XXXXXXXXXXXXXXX	
Mode Imple Access Point Pice - PicAbesa 95.49.8.9.1 Submit Mack 95.49.8.9.1 Submit Mack 95.49.8.9.1 Submit Mack 95.50.8.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	Wireless Information		
Dicp IP Address 92.148.10.1 Stanter Mask 92.535.35.0 Default Calenary VIIII Calenary DirS Server VIIIII Calenary SSID SUBDXXXXXXXX SSID Sumpakcess/Funit SSID Breadcast 04 Enrinystion 079 Bendenthth 20 Mire Channel 20 Mire Speed VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Wireless Network	ON	
IP Address 82.548.55 Subort Mack 82.558.9 DRS Server VIC MCC Address XXXXXXXXX SSID Singma Access Point SSID Breadcast 0N Striptsfin 0.77 Bandwidth 20.404 Speed 20.404 Vice Information 1 Speed VICE Information IP Address 0.80 Default Gateney 8.80	Mode	Simple Access Point	
Subrit Mark 28138538 Default Calency UNS Server MAC Address XXXXXXX SSD Genaticant 0N Encryption 0N Encryption 2A Ore Bandwith 2A Ore Calency 2A Ore Speed UNI Information 0N Encryption 2A Ore Default 2	DHCP		
Default Galaxyy DNS Server MCC Address XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IP Address	192.168.10.1	
DNS Server MAC Address SKXXXXXX SSD CAddress XXXXXXX SSD Caddress XXXXXXXX SSD Caddress XXXXXXXX SSD Caddress XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Subnet Mask	255.255.255.0	
MAC Address XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Default Gateway		
SSD Simplification SSD Breadcast ON SERD Breadcast OFF Encryption OFF Bandwidth 24 Mer Channel 1 Speed Vertex Processon Vertex Processon Vertex Processon ON Processon ON 1 Speed Vertex Processon ON 1 ON 1 Ontower 1	DNS Server		
SSID Broadcast ON Excryption OFF Whiteless Free. 2.4 Oter Bandwidth 29 Mink Channel 20 Mink Speed	MAC Address	XX: XX: XX: XX: XX: XX: XX	
Enrirystein Off Werkes Freg. 24.04c Bandweith 20.04c Channel	SSID	SimpleAccessPoint	
24 Oter Bandwidth 20 MHr Chonokl 1 Speed Wind Information DHCP ON ORCONSTANCE 265.285.256 Defending 265.285.256 Defending 26.286.2000 DhS Server 82.88.0000	SSID Broadcast	ON	
Bandwith 29 Mir Channel 1 Speed Wind Information DICCP ON (P Address 12 Hit.10 Solowit Mask 255.355.9 Doftant Gateway 8.8.9	Encryption		
Channel 11 Speed Vind Information DHCP ON Speed S2 INEL 10 Speed S2 INEL 10 Speed S2 INEL 10 Speed S2 INEL 10 DhS Server 8.8.9	Wireless Freq.		
Speed DHCP OH PAddress 922.488.19 Spanner Mack 2453.853.9 DHS Sarver 8.8.9	Bandwidth		
Wired Information UNCP ON IP Address 192,198,110 Solvers Mask 265,298,295,6 Default Gateway 8.8.8 DNS Server 8.8.8.9		"	
DHCP ON IP Address 192,148,19 Solvor Mask 2633635.9 Default Galeway 8.8.8 DNS Server 8.8.8.9	Speed		
PAddress 192,198,110 Subnet Mask 256,296,236,6 Default Galeway 8.8.8 DNS Server 8.8.8	Wired Information		
Sutherst Mask 255.335.9 Default Gateway 8.8.8 DNS Server 8.8.8	DHCP	ON	
Default Gateway 0.0.0.0 DNS Server 0.0.0.0	IP Address	192.168.1.10	
DNS Server 8355	Submet Mask	255.255.255.0	
	Default Gateway	0.0.0	
MAC Address XXXXXXXXXX	DNS Server	0.500	
	MAC Address	XXXXXXXXXXXXXXX	

3.1.3 Network Settings

3.1.3.1 Common Setup

Configures the settings common to wireless and wired LAN.

Ð	Projector WebControl	0 0
Common Setup		
Wireless Network	ON IN	_
Projector Name sysLocation (SNMP)	PRJ_0000000000	_
sysContact (SNMP)		_
AMX D. D.	OFF -	
Crestron	ON III	
Apply		
To apply changes to network settings. Network Restart	click Apply, then perform 'Network Restart'.	

When changing the settings, click the [Network Restart] button after clicking the [Apply] button to reflect the settings of the projector.

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

• 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.

(continued on next page)

ltem	Description		
Wireless Network	Switches ON/OFF of wireless network function.		
Projector Name *1	Configures the name of the projector.		
sysLocation (SNMP) *2	Configures the location to be referred to when using SNMP.		
sysContact (SNMP) *2	Configures the contact information to be referred to when using SNMP.		
AMX D.D. *3 (AMX Device Discovery)	Switches ON/OFF of AMX Device Discovery. When ON is selected, the projector can be detected and controlled by AMX device connected to the same network.		
Crestron *4	Switches ON/OFF of Crestron [®] function. When ON is selected, Crestron [®] can control the projector from the controllers of Crestron [®] device connected to the same network.		

1 The text length can be up to 64 alphanumeric characters and symbols. Only symbols "!"#\$%&'()+,-./:;<=>?@[\]^_'{}~ and space" can be used.

*2 The text length can be up to 255 alphanumeric characters.

*3 Refer to the AMX website for the details of the AMX Device Discovery.

URL: http://www.amx.com

*4 Refer to the chapter "8.5 Crestron ConnectedTM" for the details of the Crestron[®].

3.1.3.2 Wireless Setup

Configures the wireless LAN settings.

	Projector Web Control	
Vireless Setup		
Made	Emple Autom Part =	
Encryption Lock		
Simple Access Point settings		
P Configuration	8* Addresses [1982	
ssiD	Simil-AccessPoint	
SSID Browtoard	CA I	
Encryption	D# 10	
WPA Pasaplanas		
Wirelash Freg.	23099	
Bandwidth	(20 Minz 10)	
Charmel	(H))	
intraction settings.		
# Configuration	Operation ■ parts one P Answer Hanne Manne 1000 100 102/201 Hanne Manne 1000 100 Hanne Manne 1000 100 Hanne Hanne 1000 100 Hanne 1000 100 Hanne Hanne 1000 100 Hanne 1000 Hanne 1000 100 Hanne 1000 1000 100 Hanne 1000 1000 100 Hanne 1000 1000 100 Hanne 1000 1000 1000 1000 Hanne 1000 1000 1000 1000 Hanne 1000 1000 1000 1000 1000 Hanne 1000 1000 1000 1000 1000 1000 1000 1	
860	Jamana	
Encryption	(OW)]]	
WEP way		
WPA Passatrase		
Apaky Da ngolg changes to sellenge Metwork Kestart	. citis Appin, then particin National Review?	

When changing the settings, click the [Network Restart] button after clicking the [Apply] button to reflect the settings of the projector.

Item	Description	
Mode	Switches wireless connection mode.	
Encryption Lock	Switches ON/OFF of Encryption Lock. When Encryption Lock is set to ON, these settings cannot be changed by the menu of the projector. Mode / SSID / SSID Broadcast / Encryption / Encryption key (WEP key, WPA Passphrase)	

(continued on next page)

1. Simple Access Point settings

Item	Description		
IP Configuration	Configures the IP Address of the projector in Simple Access Point mode. Subnet Mask of this mode is fixed to 255.255.255.0.		
SSID *1	Configures SSID of Simple Access Point mode.		
SSID Broadcast	Switches ON/OFF of SSID Broadcast. When this function is set to OFF, SSID of the projector is not displayed in wireless connection list of the device.		
Encryption	Selects data encryption method.		
WPA Passphrase *2	Configures WPA Passphrase.		
Wireless Freq.	Configures the frequency for the wireless connection.		
Bandwidth	Configures the frequency bandwidth for the wireless connection. If you want to get a higher link speed, change this to 40MHz or 80MHz. NOTE • Depending on your internet connection, the projector may not operate with the bandwidth you set or you may not get a higher link speed.		
	Selects the wireless channel. The selectable channels are different depending on the wireless frequency band and Bandwidth.		
Channel	NOTE • This projector uses the 5 GHz and 2.4 GHz 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.		

1 The text length can be up to 32 alphanumeric characters and symbols. Only symbols "!"#\$%&'()+,-./:;<=>?@[\]^_'{}~ and space" can be used.

2 The text length can be 8 to 63 alphanumeric characters and symbols. Only symbols "!"#\$%&'()+,-./:;<=>?@[\]^_'{|}~ and space" can be used.

(continued on next page)

2. Infrastructure settings

Item	Description		
IP Configuration	Configures the network settings of the projector in Infrastructure mode. [DHCP ON] Enables DHCP. [DHCP OFF] Disables DHCP. Configures IP Address, Subnet Mask, Default Gateway and DNS server.		
SSID *1	Configures the	SSID of Infrastruc	cture mode.
Encryption	Selects data er	ncryption method.	
WEP Key	Inputs the WEP key. Either ASCII characters or hexadecimal numbers can be used. However, a combination of both cannot be used.		
	Encryption	ASCII characters	HEX numbers
	WEP 64bit	5 characters	10 characters
	WEP 128bit	13 characters	26 characters
WPA Passphrase *2	Inputs WPA Passphrase.		

1 The text length can be up to 32 alphanumeric characters and symbols. Only symbols "!"#\$%&'()+,-./:;<=>?@[\]^_'{}~ and space" can be used.

2 The text length can be 8 to 63 alphanumeric characters and symbols. Only symbols "!"#\$%&'()+,-./:;<=>?@[\]^_'{|}~ and space" can be used.

NOTE • If Encryption Lock is ON, wireless connection is performed only when it can be connected without changing the current settings.

• 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.

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

• 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.

3.1.3.3 Wired Setup

Configures the wired LAN settings.

₽	Projector Web Control		0 0
Wired Setup			
IP Configuration	DHCP ON		
	O DHCP OFF		
	IP Address	192.168.1.254	
	Subnet Mask Default Gateway	255.255.256.0 0.0.0.0	
	DNS Server	0.0.0.0	
Apple			
Apply To apply changes to network setting	a aliek Annhe than norform 'Naturati	Postad ⁴	
	s. cack Apply, alen periorini Network	Result.	
Network Restart			

Item	Description	
IP Configuration	Configures network settings. [DHCP ON] Enables DHCP. [DHCP OFF] Disables DHCP. Configures IP Address, Subnet Mask, Default Gateway, and DNS server.	

3.1.3.4 Other Setup

Configures other network settings.

Þ	Projector Web Control	0 ©
Other Setup		
Crestron e-Control	Enable	
Apply		

When changing the settings, click the [Apply] button to reflect the settings of the projector.

Item	Description
Crestron e-Control *1	Configures Enable/Disable of Crestron e-Control [®] .

*1 Refer to chapter "3.2 Crestron e-Control[®]" for the details of the Crestron e-Control[®].

3. Web Control

3.1 Projector Web Control (continued)

3.1.4 Port Settings

Configures the network communication port.

Network Control Port1 (Port23)		
Port Open	E feature	
Authentication	Date	
Network Control Port2 (Port3716)		
Part Open	El traine	
Authoritication	Dutite	
P.J. ink Port (Part 4282)		
Part Open	E butte	
Authentication	E Dualite	
My Image Purt (Port:8714)		
Part Open	El fuatre	
Authentication	E build	
Messaesper Port (Port 3718)		
Part Open	Elforatio	
Authoritication	El Duatrie	
SAMP Puri		
Part Open	Ebuble	
Trap Address		
Coversional MEB File		
Robush Bridge Port		
Part Number	jary.	
Apphy		

When changing the settings, click the [Network Restart] button after clicking the [Apply] button to reflect the settings of the projector.

Item	Description
Port Open	Configures Enable/Disable of the Port Open. When disabling unused port function, the access from an illegal user can be prevented.
Authentication	Configures Enable/Disable of Authentication.
Trap Address *1	Configures the destination of the SNMP trap. This item can be set not only by IP address but also by domain name.
Download MIB File	Downloads a MIB file for SNMP from the projector.
Port NumberConfigures the port number used to the Network function.	

*1 The text length can be up to 255 alphanumeric characters, "-", and ".".

3.1.5 Mail Settings

Configures the e-mail settings.

D.	Projector Web Control	0 0
Mail Settings		
Send Mal	Enable	
Auffordication	Of Of	
MMTP Server		
Server Address	pass -	
Purt Number	p=	
POP Server		
Barver Address	jana -	
Part Number	(FW)	
Mail Address		
Sender E-mail Address		
Recipient E-mail Address	(k) (ii)	1
	(w.)) [
		1
	(m · m)	1
	(a	1
Bend Test Mail		
	18	
Apply		Reset

When changing the settings,

click the [Apply] button to reflect the settings of the projector.

This setting can be restored to the initial setting when clicking the [Reset] button. Sends a test e-mail when clicking [Send Test Mail].

Item		Description		
Send Mail		Configures Enable/Disable of sending e-mail. The contents of the e-mail can be edited on each screen of the Alert Settings.		
Au	thentication	Selects the authentication method.		
User Name *1		Enter the same user name of the SMTP server or POP server.		
Password *1		Enter the same password of the SMTP server or POP server.		

1 The text length can be up to 63 alphanumeric characters and symbols. Only symbols "!"#\$%&'()+,-./:;<=>?@[\]^_'{|}~ and space" can be used.

3.1 Projector Web Control - Mail Settings (continued)

1. SMTP / POP Server

Item	Description
Server Address *1	Configures the SMTP server address or the POP server address. This item can be set not only by IP address but also by domain name.
Port Number	Configures the port number of the SMTP server or the POP server.

*1 The text length can be up to 255 alphanumeric characters, "-", and ".".

2. Mail Address

Item	Description		
Sender E-mail Address *1	Configures the sender e-mail address.		
Recipient E-mail Address *1Configures the e-mail address of up to five rec You can also specify the [to] or [cc] for each address			

*1 The text length can be up to 255 alphanumeric characters, "-", ".", "_" and "@".

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.

• To use a domain name to the address of the SMTP server or POP server, setting the DNS server is necessary.

• The characters used for mail address may not be allowed depending on mail server.

3.1.6 Alert Settings

Configures notifications of errors/warnings.

Þ	Projector Web Control	0 0
Cover Error		
SNMP Trap	🔄 Enable	
Mail Subject	Projector Error	
Mail Text	Cover Errortti	
	-1010 () () ()	
Apply		Reset
replay		

Refer to chapter "8.1 E-mail Alerts" for the details of the above errors/warnings. When changing the settings, click the **[Apply]** button to reflect the settings of the projector.

This setting can be restored to the initial setting when clicking the [Reset] button.

Item	Description		
Alarm Time *1	Configures the time to alert.		
SNMP Trap *2	Click the [Enable] check box to enable SNMP Trap alerts.		
Send Mail	Click the [Enable] check box to enable e-mail alerts.		
Mail Subject *3	Configures the subject line of the e-mail to be sent.		
Mail Text *4	Configures the text of the e-mail to be sent.		

*1 Only Lamp Time Alarm and Filter Time Alarm.

*2 The setting item of Cold Start and Authentication Failure is SNMP Trap only.

3 The text length can be up to 100 alphanumeric characters and symbols. Using any Multi-byte character may shorten the text. Only symbols "!"#\$%&'()+,-../:;<=>?@[\]^_'{}~ and space" can be used.

4 The text length can be up to 1024 alphanumeric characters and symbols. Using any Multi-byte character may shorten the text. Only symbols "!"#\$%&'()+,-../:;<=>?@[\]^_'{|}~ and space" can be used.

3.1.7 Schedule Settings

3.1.7.1 Schedule Management

Configures the schedule settings.

		ctor WebCo			0 0		
ichedule Settings							
Didwinke Management							
alari) The charalibre of the including to used	inc. and series?	De program.					
Program List	Clock "Program Unit" Sullin to show the program.						
Program Edit	City Progr	en Bill" befor to		pingan.			
Program Drag	Shi Yequ	are Gopy" buten b		e program.			
			E	Expand AA	Colleges Ad		
Banday							
(Pogan t ())	-	-		1-1	Authy		
2 Manday							
(Program 1.)))				1041	Apple		
Torrelag							
(Pogen 1))	-			1041	Apple		
C Wednesday							
Popul (1)				low1	Acoly		
Thursday) m		
(Pogran 1)		-		1041	Auste		
C Printage					1.00		
(Pogran 1 (E)				[04]	Apply		
Beturday					· •		
Pogan 1		5a4		[ow]	Acole		
Specific Bate No. 1					100		
(Property)				(sel	Ante		
Reporte date No.3					•		
Program # (1) D == (D == (Month-Dag)	18.00	tear .		1041	Apply		
Reported and No.3					. *		
Propund () 3 + (3 + (Manthibuy)	11.00			10#1	Apple		
Bereath: data No.4					~		
(Program 1 (c)) (1 - a) ((1 - a) (Month/Deg)				1041	Acuts		
Barcific date No.3							
(Propan 1))) (1 - a - (1 - a - (March Cay)		-		(04)	Austr		
la a rift a (Month/Day)							
Property (- 25	[04]	Apply		
(1 + 1)) + (Munth/Day)							
Property 1				10N]	Auste		
Specific data No.8							
Property ()				[m]	Acoly		
B = 1(b = (Manthilley) Bayecific date No.3							
(Program-1))) (7 - ar ((7 - ar (MandalDay)				10#1	Austr		
Transition (Marchiller)							
					-		
Property (RenthDay)	58.54 P			[0#1	Ayata		

Refer to chapter "8.3 Event Scheduling" for the details of the schedule settings.

Click the checkbox of the specific day or day to perform a schedule, and select the program number to use.

When setting the specific date, enter the date (month/day).

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

Confirm the event information registered in each program on the screen.

NOTE • Be sure to set the date and time before enabling scheduled events.

- 1. Program List
 - Click the "Program List" button to show the program.
 - (Refer to "3.1.7.2 Program List")
- 2. Program Edit
 - Click the "Program Edit" button to edit the program.
 - (Refer to "3.1.7.3 Program Edit")
- 3. Program Copy Click the "Program Copy" button to copy the program.
 - (Refer to "3.1.7.4 Program Copy")

3.1 Projector Web Control - Schedule Settings (continued)

3.1.7.2 Program List

Displays the event information registered in each program.

2		Projecto	r Web Control	0 0
ichedule	Settings			
Program Lit	st.			
				Back
			Expand All	Collapse All
Program-1				~
	Time		Event (Parameter)	
1	08:00	Power	[01]	
2	17:00	Power	[STANOBY]	
Program-2				
Program-3				~
Program-4				~
Program-5				~
Program-6				~
Program-7				~
Program-8				~
Program-9				~
Program-10	2			~
Program-11	i.			~
Program-12	2			×
Program-13	1			~
Program-14				~
Program-15	5			~
Program-10	1			~

Click the **[Back]** button to go back to the Schedule Management screen.

3.1 Projector Web Control - Schedule Settings (continued)

3.1.7.3 Program Edit

Edits the program.

chedule Settings			
rogram Edit			
			Back
ogram ()) Selec			
7514		Event Parameter]	
F = 1	· Preser	I (STANDBY	19
(ed)ease	O Input Source	COMPUTER INT	100
	O My Image	I IMAGE-OFF	181
	O Messanger	I TEXT.OFF	191
	C Light Output	t (NDRMAL	1
	C Blank	t (cea	191
	C Sideshow	E (BTART	181
	v 6	giater	
e Time		Event (Parameter)	
1 06.00	Press	[04]	Delete
3 \$7.00	Poest	[\$1000av]	Delete

Select the program number to edit, and set the event and time to execute. Click the **[Register]** button to add the event to a selected program number. Click the **[Delete]** button to delete an event.

Click the [Delete All] button to delete all the events.

Click the [Back] button to go back to the Schedule Management screen.

The projector can control the following events automatically by using the schedule function.

Item Description		
Power	Configures power control.	
Input Source	Configures the switching of Input Source.	
My Image	Configures the display of My Image.	
Messenger	Configures the display of Messenger text data.	
Eco Mode	Configures the switching of Eco Mode.	
Blank	Configures On/Off of Blank.	
Slideshow	Configures the Start/Stop parameters for the slideshow	

NOTE

• A maximum of 16 programs of schedule can be set.

• A maximum of 20 events can be registered in one program.

3.1 Projector Web Control - Schedule Settings (continued)

3.1.7.4 Program Copy

Configures the program copy.

			r Web Control	C (0
chedule	Settings			
rogram Co	ev.			
				Back
rogram-1	Select			
•	Tana		Event [Parameter]	
¢	00:00	Power	[ON]	
2	17:00	Power	[STANDBY]	
			Program-1	
			Copy to	
			Program-2	
				Edit
ogram 2 🔄	Select			
	Terrar		Event (Parameter)	
,	09:45	Power	[04]	
2	12:15	Power	[STANDEY]	

Select the original program number (dropdown list of the upper part of the screen) and program number (dropdown list of the lower part of the screen).

Click the [Copy to] button to copy the program.

Click the **[Edit]** button to edit the event of copied program after copying the program.

Click the [Back] button to go back to the Schedule Management screen.

NOTE

• The same program No. cannot be selected for both the program from which and the program to which you copy.

3.1.8 Date/Time Settings

Configures the date/time.

₽	Projector Web Control	0 0
Date/Time Settings		
Current Date	[15 → J]1 → J[1 → yeatmonthiley	
Current Time	p + ; p + ; p + hourmondecented	
Time Difference	00 00+ TMD	
Daylight Savings Time		
Start	Mandh. T	
	Week (Faul =)	
	Day Man -	
	Time 0 is 0 in hour minute	
End	Month 1 w	
	Work First +	
	Day Mon III	
	Time 0 e 0 e hour minute	
SNTP		
Server Address	0000	
Cycle	0 in : 10 in boarminute	
Apply		
To apply changes to datatime setti Network Restart	rgs: click Apply, then perform 'Network Restart'.	

When changing the settings, click the **[Network Restart]** button after clicking the **[Apply]** button to reflect the settings of the projector.

Item Description	
Current Date Configures the current date.	
Current Time Configures the current time.	
Time Difference	Configures the time difference to Greenwich Mean Time.

(continued on next page)

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

1. Daylight Saving Time

Select the checkbox when using daylight saving time.

	Item Description		
St	art	Configures the date and time daylight saving time begins.	
	Month Configures the month daylight saving time begins.		
	Week	Configures the week of the month daylight saving time begins.	
Day Configures the day of the week daylight saving time begins		Configures the day of the week daylight saving time begins.	
	TimeConfigures the time daylight saving time begins.		
En	d	Configures the date and time daylight saving time ends.	
	Month Configures the month daylight saving time ends.		
	Week Configures the week of the month daylight saving time ends.		
	Day Configures the day of the week daylight saving time ends.		
	Time Configures the time daylight saving time ends.		

2. SNTP

ltem	Description
Server Address *1	Configures the SNTP server address. This item can be set not only by IP address but also by domain name.
Cycle	Configures the interval at which to retrieve Date and Time information from the SNTP server.

*1 The text length can be up to 255 alphanumeric characters, "-", and ".".

NOTE • 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.

• To use a domain name for the address of the SNTP server, setting the DNS server is necessary.

3.1.9 Security Settings

3.1.9.1 User Account

Configures the user name and password for login to Projector Web Control screen.

₽	Projector Web Control	C (0)
User Account		
User Name Password	Administrator	
Re-enter Password		
Re-enter Password		
Apply		
To apply changes to security settings Network Restart	: click Apply, then perform 'Network Restart'.	

When changing the settings, click the **[Network Restart]** button after clicking the **[Apply]** button to reflect the settings of the projector.

Item	Description
User Name	Configures the user name.
Password	Configures the password.
Re-enter Password	Re-enter the above password for verification.

NOTE

• Please do not forget the user name and password.

3.1.9.2 Network Control

Configures the password for authentication in the projector control.

₽	Projector Web Control	0 0
Network Control		
1		
Password		
Re-enter Password		
Apply		
	click Apply, then perform 'Network Restart'.	
Network Restart		

Item	Description
Password	Configures the password.
Re-enter Password	Re-enter the above password for verification.

NOTE	
• This password is used in common for the function using the following	
communication ports.	
Network Control Port1 (Port: 23)	
Network Control Port2 (Port: 9715)	
PJLink Port (Port: 4352)	
My Image Port (Port: 9716)	
Messenger Port (Port: 9719)	

3.1.9.3 Network Presentation

Configures the password for the display restriction of the projected screen of Network Presentation.

Ð	Projector Web Control	C (0)
Network Presentation		
Password		
Re-enter Password		
Apply		
	click Apply, then perform 'Network Restart'.	
Network Restart		

Item	Description	
Password	Configures the password. When the password is set to blank, the authentication is invalid.	
Re-enter Password	Re-enter the above password for verification.	

3.1.9.4 SNMP

Configures the community name to use SNMP.

₽	Projector Web Control	0 0
SNMP		
Community Name	public	
Apply		
To apply changes to security setting Network Restart	ps; click Apply, then perform 'Network Restart'.	

Item	Description
Community Name	Configures the community name.

3.1.10 Projector Control

Configures the function of each item in the projector menu.

Pro Pro	jector Web C	ontrol			0 @	9)
IAIN						
			ExpandAll	18	Colleges All	
POWER		100	Experience		Compte Per	
ON ETANDO	63					
NPUT SOURCE						-
COMPLITER INT				ĩ	Apply	
BLANK ON/OFF						
OII OFF						
MUTE						~
on off						
REEZE						1
MAGNIFY						
				1	017	
Value: (from 0 to 14)				- 0	Enter	
MAGNIFY POSITION						1
\$ Value: (7 (from 0 to 10)				1	Enter	
Value: D (from 0 to 6)				i	Enter	
TEMPLATE						1
011 077						
MY IMAGE						1
MAGE OFF				1	Apply	
NY MAGE DELETE						4
MAGE-1				1	Apply	

Menu varies depending on the model.

NOTE

• If the settings are changed in the menu or by the remote control while changing the settings on this screen, the display and the actual setting may not match. In that case, click the Reload () button to refresh the screen.

3.1.11 Remote Control

The menu operation and the input source switching can be performed on this screen like a remote control.

₽	Proje	ctor Web Control		0 0
Remote Control				
	STANDBY		ON	
	COMPUTER IN1	COMPUTER IN2	VIDEO	
	HDMI 1 USB TYPE A	HDWI 2 USB TYPE B	LAN	
	BLANK	FRIEZE	MUTE	
	•	L ENTER	•	
	10000 (Mar)	•		
	RESET PAGE UP	PAGEDOWN	MENU	

Menu varies depending on the model.

NOTE

• Holding down a button is not supported on this screen. The button should be clicked repeatedly to operate continuously.

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

• When the **[ŚTANDBY]** or **[ON]** button is pressed, a message window comes up to confirm the operation. To control the power, press **[OK]**, otherwise press **[Cancel]**.

3.1.12 Projector Status

Displays the information of each status.

Þ	Projector Web Control	C (0)
Projector Status		
Error Status	NORMAL	
Light Source Time	10 h	
Filter Time	10 h	
Power Status	ON	
Input Status	COMPUTER IN1	
Blank On/Off	OFF	
Mute	OFF	
Freeze	NORMAL	

Displayed information varies depending on the model.

3.1.13 Connection Test

Checks the connection to specified IP address.

	Projector Web Control	0 0
Connection Test		
Destination IP Address	0 . 0 . 0 . 0 Exécute	
	Clear	

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.

3.1.14 Network Restart

Restarts the network connection.

Þ	Projector WebControl	0 0
Network	Restart	
	Corfirm	
	Restarting requires you to re-login in order to furthe control or configure the projector via a web browset.	
	Restart	

NOTE • When the projector has connected successfully with the same network setting as before it restarts, the Network Information screen is automatically displayed after having restarted.

The following screen is displayed if the projector cannot connect to the network due to the change of network setting, etc. Finish a browser and start it again.

₽	Projector Web Control	0 🛛
Network Re	start	
	Network was Restarted.	
	Note that the current HTTP connection is no longer valid.	
	In order to further control or configure the projector via a web browser, plass-re-login after more than 30 seconds.	

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 (\square 71), 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. (471)
Info	Opens Info window. (173)
Contact IT Help	Opens Help Desk window. (474)

3.2 Crestron e-Control[®] (continued)

NOTE • In any of the following cases, Crestron e-Control[®] cannot be used.

- Network Settings - Other Setup - Crestron e-Control is "Disable" (47)

- Network Settings - Common Setup - Crestron is "OFF" (42)

- NETWORK menu - EXTERNAL CONTROL - CRESTRON is "OFF" (132) Set Crestron to on and enable Crestron e-Control[®], then 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.

 $\textbf{NOTE} \ \boldsymbol{\cdot}$ 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.
HDMI 1	Selects input from HDMI 1 port.
HDMI 2	Selects input from HDMI 2 port.
Video	Selects input from VIDEO 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.

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

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

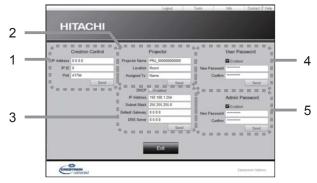
Button	Description
Freeze	Turns Freeze on/off.
Contrast	Adjusts the contrast setting.
Brightness	Adjusts the brightness setting.
Color	Adjusts the color setting.
Sharpness	Adjusts the sharpness setting.
Magnify	Controls the magnification setting using the $[+] / [-]$ buttons. Use the $[\blacktriangle] [\blacktriangledown] [\blacktriangleleft] [\blacktriangleright]$ 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

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

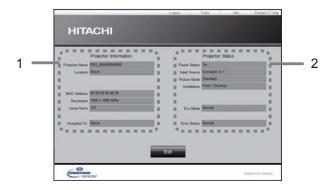
Configures the Admin Password. To prompt the entry of Admin Password before displaying the Tools window, select the checkbox.

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 and Fusion $\mathsf{RV}^{\texttt{8}}.$

Button	Description	
Send	Sends a message.	
\times	Checks the received message.	

3.2 Crestron e-Control[®] (continued)

3.2.5 Emergency Alert



When the administrator for Crestron RoomView[®] Express and Fusion RV[®] 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 the details of Emergency Alert, refer to the manual of Crestron RoomView[®] Express or Fusion RV[®].

• The alert message from Crestron RoomView[®] and Fusion RV[®] is displayed on the screen of the projector in the way similar to the real-time text of the Messenger function. ($\square 81$) If another real-time text is displayed on the screen, it will be overwritten by the alert message. However, if the priority of the realtime text is set to high, the alert message does not appear on the screen. For the 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 $(\square 20)$.

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 H.

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.

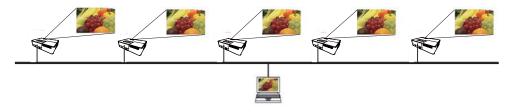
4.2.2 Multi PC mode

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



4.3 Multi Projector Mode

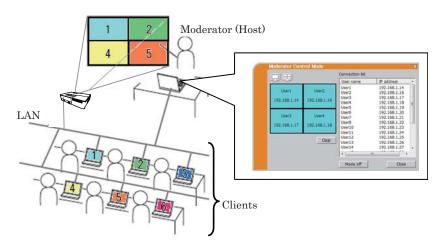
In the Multi Projector/Multi Display mode, up to 12 projectors or switchers connected to projectors can connect with the computer via wireless or wired LAN simultaneously.



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.

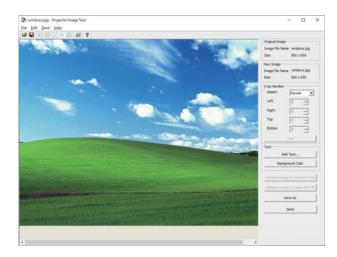
Port No.	Protocol
5500	TCP
5900	TCP
5901	TCP
9720	TCP

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. ($\square 20$)

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. (**1**93)

• 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

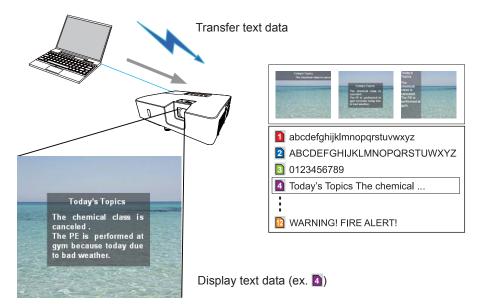
6.1 Outline

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.

Refer to the manual of Messenger tool for details.



- (1) Scroll
- (2) Box (Scroll up)
- (3) Pop on
- (4) Picture Side

Messenger function requires an exclusive application for your computer. ($\square 20$) 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 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.

2) Box (Scroll up) The message scrolls upwards in the square 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 model projector.





CAUTION !!

Immediately, Turn off the projector main switch.





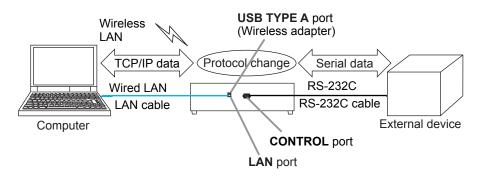
NOTE • Using **MY BUTTON** registered as MESSENGER can turn the displaying messenger text on/off. (COPTION menu in the Operating Guide) • The text file also can be displayed by using schedule function via the web browser. (COPTION and COPTION and

• 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 device.



7.1 Connecting devices

- 1) Connect the projector's **LAN** port to the computer's LAN port with a LAN cable, or connect the wireless adapter to 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.
- 2) 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. Default settings are as follows.

ltem	Condition
BAUD RATE	19200bps
PARITY	NONE
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

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. (448)

NOTE • It is set to 9717 by default.

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

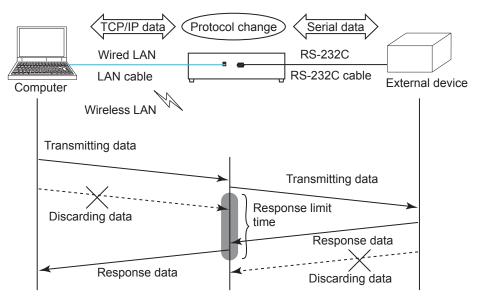
7.4.1 HALF-DUPLEX

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 requiring maintenance or detected an error.

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

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

• 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.
Transition Detector Alarm	Transition Detector Alarm. (Detector Alarm . (Detector Alarm . (Detector Menu in the Operating Guide)

* Supported alerts vary depending on the model.

(continued on next page)

NOTE • The timing of receiving Filter Error e-mail is depending on the FILTER MESSAGE setting in the LAMP & FILTER item of the SETUP 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 OFF. (LOPE MENUME SAGE SETUP menu in the Operating Guide)

• Lamp Time Alarm is a threshold for e-mail notification of the lamp time. When the Lamp 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 Filter 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 (49)

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 ($\square 49$) 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 (151)

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 (**1***51*) 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>

<failure date="" warning=""></failure>
<failure time="" warning=""></failure>
<projector address="" ip=""></projector>
<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 to 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].
	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 E-mail Alerts (**188**), 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 NETWORK(WOL) or 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 (48)

- 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 (158)

- 1) Select [Security Settings] on main menu in Projector Web Control.
- 2) Click the [SNMP] and set the community name on the displayed screen.

Alert Settings (151)

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.

Note the following before setting the schedule.

NOTE • Schedule can also be set in OPTION - SCHEDULE menu of the projector. (

• 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 10 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 set at the same time.

• Be sure to set the date and time before enabling scheduled events. (456)

• 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 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 Slide show event.

• When you start the Slide show, 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 Slide show.

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.

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Schedule Settings					
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2) Click the **[Program Edit]** button to display the program edit screen. Select the program you want to edit in dropdown list and click the **[Select]** button.

Schedule	Settings			
uure				
Program E	dit .			
				Back
Peogram-1	Select	L		
	Terre		Event (Parameter)	
1	0 10 10 10	Power	[STANDBY	1
	(s.g.]10.05	O Input Source	COMPUTER IN1	1
		O My Image	[MAGE-OFF	1
		O Messenger	(TEXT-OFF	1
		C Light Output	[(NORMAL	1
		O Blank	(Ota	1
_		O Slideshow	[START	1
		▼ Re	igister	
	Tirme		Event [Parameter]	
,	08:00	Power	[04]	Delete
2	17:00	Power	[STANDBY]	Delete

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

Click the [Program List] button to display the program list screen.

In this screen, the event information registered in each program number can be confirmed.

	Settings			
Program L				
			6+1	
			C Expand Md	
-				
1	-	1	Barris (Parameter)	
		Print.	(m)	
		Press.	Entransmit 1	
Property 2				
Property 1				1
-				
Property				
Property				1
Preparal				-
Propert				-
Propriet 4				
Program 0				12
Property	÷			
Program 1	i.			-
Property la	1			
-				
Property 1	6			

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 ~ 10, enter the date (month/day).
- Click the [Apply] button to save the schedule settings in the projector. Repeat step 6) ~ 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 **[Program Copy]** button.

•		Projector	Web Control	0 ©
ichedule	Settings			
hogram Ca	wy.			
				Back
toppen t	Select		Event (Parameter)	
		Press	[(m)]	
	17:08	Press	L R TANKARY	
			Propund	
		٣	Copy to	
			Program-2	
				Edit
topan J]	Select			
•	Tarre		Errel (Paramater)	
	19.45	Promet	(cm)	

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.

Click the **[Edit]** button to edit the event of copied program after copying the program.

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 (48)

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

Þ	Projector Web Control	0 0
Port Settings		
Network Control Port1 (Port.23	0	
Port Open	El Bratria	
Authentication	Duble	
Network Control Port2 (Port.97	18	
Port Open	E trans	
Authentication	E Druthe	
Pullink Port (Port:4352)		
Port Open	[] Buatta	
Authentication	🔁 Brathle	
My image Port (Port:9716)		
Port Open	Dable	
Authentication	E Brathe	
Messanger Port (Port 8719)		
Port Open	El trable	
Authentication	E thable	
SAMP Purt		
Piet Open	Enable	
Tay Address		
Download MB File		
Network Bridge Port		
Port Number	Jura.	
Apply To apply changes to port settings: Hetwork Restart	tild Agely, then perfere Violance Restard.	

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.
 (158)
- 7) Click the [Security Settings] on the main menu.
- 8) Click the [Network Control] and enter the desired password.

* See NOTE.

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

NOTE • The 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. ($\square 66$)

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-232C command	Check Sum	Connection ID
0x02	0x0D		13 bytes	1 byte	1 byte
Header Data length RS-232C cor	mmand	\rightarrow	0x02, Fixed RS-232C commands byte le RS-232C commands that st (13 bytes)		
Check Sum \rightarrow		\rightarrow	This is the value to make zero on the addition of the lower 8 bits from the header to the checksum.		
Connection ID \rightarrow		\rightarrow	Random value from 0 to 255 (This value is attached 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>

F	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 Password and digest this data with the MD5 algorithm and add this in front of the commands to send.

The following is a sample if the 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 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 Connected[™]

Crestron Connected[™] 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 the details of Crestron Connected[™], refer to the Crestron[®] website.

URL: http://www.crestron.com

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

 Crestron Fusion RV[®] / Crestron RoomView[®] Express / Crestron RoomView[®] Server Edition Fusion RV[®], 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 the 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. ($\square 67$)

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 NETWORK(WOL) or SAVING?	The network function is not available when STANDBY MODE is set to NETWORK(WOL) or 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 INFORMATION 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 INFORMATION menu.
Are the network settings such as IP address set correctly?	Check the network settings in the NETWORK INFORMATION - WIRED INFORMATION 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 of the computer and enable the wired network adapter.

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

1. Common

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 NETWORK(WOL) or SAVING?	The network function is not available when STANDBY MODE is set to NETWORK(WOL) or 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 INFORMATION menu. Consult with your network administrator for details.
Is the USB wireless adapter (optional parts : USB-WL-5G) 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-5G only.
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 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
	(Available only in INFRASTRUCTURE mode) •WEP64bit
	(Available only in INFRASTRUCTURE mode)
	This projector cannot be connected to the wireless network using the encryption methods other than the above.
Does the radio frequency match between the device and the projector?	Confirm the available frequency of the device. Change the projector setting to available frequency.
	It may be better by changing the channel setting.
Is the wireless network adapter of the computer enabled?	Refer to the user's manual of the computer and enable the wireless network adapter.
Is the DHCP setting of the computer disabled?	Enable the DHCP setting of the computer. Refer to the user's manual of the computer or wireless LAN device for the setting procedure of network and wireless connection of the computer.

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

1. Common (continued)

Item to be checked	Solutions
Does the IP address overlap with that of the other devices?	When the IP address overlaps, turn off your Wi-Fi [®] device and turn on again.
Is WIRELESS NETWORK set to OFF?	Set WIRELESS NETWORK to ON.
Is the wireless adapter connected to the projector?	Insert the wireless adapter to the USB TYPE A port of the projector.

2. SIMPLE ACCESS POINT

Item to be checked	Solutions
Are over 10 devices connected to the projector?	 Confirm the number of the devices connected to the projector. Up to 10 devices can be connected to the projector in Simple Access Point mode. When the projector is connected to the maximum numbers of devices, connect after disconnecting the device currently connected.

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

3. INFRASTRUCTURE

Itom to be abacked	Colutions
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 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 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.

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 [®] 11 and Microsoft [®] Edge. 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.
Is Cookie in your browser disabled?	When Cookie is disabled, the mobile screen cannot be displayed. Enable Cookie setting of your browser.

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.
Is Crestron in Projector Web Control - Network Settings - Common Setup set to OFF?	Set Crestron in Projector Web Control - Network Settings - Common Setup to ON.

Phenomenon: Cannot send an e-mail correctly.

Item to be checked	Solutions
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 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.
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.

Ostations
Solutions
Turn on the projector.
The schedule function is not available when STANDBY MODE is set to NETWORK(WOL) or SAVING. If you want to use the schedule function in the standby mode, set to NORMAL.
Check the settings of Date and Time.
Register the image data to be displayed with the projector by using exclusive application software.
Register the message data to be displayed with the projector by using exclusive application software.
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.
Check the settings of Schedule Settings of the Projector Web Control.
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 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 NETWORK(WOL) or SAVING?	The Network Bridge is not available when STANDBY MODE is set to NETWORK(WOL) or 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.

DUKANE CORP AV SERVICE DEPT

2900 Dukane Drive St Charles, IL 60174 800-676-2487 / 630-762-Fax 630-584-5156 avservice@dukane.com www.dukaneav.com

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