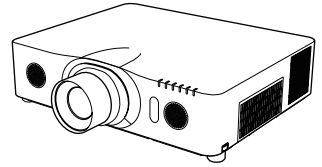


Projector

IN5132/IN5142/IN5134/IN5134a/ IN5144/IN5144a/IN5135/IN5145

User's Manual (detailed) Network Guide



Thank you for purchasing this product.

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

⚠ 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 a network function that provides you with these features:

- ✓ **Network Presentation** : allows the projector to project computer images transmitted through a network. (15)
- ✓ **Web Control** : allows you to monitor and control the projector through a network from a computer. (16)
- ✓ **My Image** : allows the projector to store up to four still images and project them. (50)
- ✓ **Messenger** : allows the projector to display text sent from a computer through a network. (51)
- ✓ **Network Bridge** : allows you to control an external device through the projector from a computer. (52)

NOTE • The information in this manual is subject to change without notice.
• The manufacturer assumes no responsibility for any errors that may appear in this manual.
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Caution

Caution

To use the wireless network function of this projector, you must use the optional USB wireless adapter which is designated. For precautions according to the standards and laws, refer to the documents that come with the adapter.

[Restrictions on plugging and unplugging the USB wireless adapter]

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

Do not use extension cables or other devices when connecting the adapter to the projector.

[Security precautions when using wireless LAN]

We recommend setting all security settings, including SSID and ENCRYPTION, when using wireless LAN communication. If the security settings are not set up, the data being transmitted may be intercepted or your computer may be accessed by unauthorized personnel. For details on wireless LAN security settings, refer to **3.1 Projector Web Control** or **NETWORK** menu in the **Operating Guide**.

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

• **DO NOT USE NEAR THE FOLLOWING!**

- Microwave ovens
- Industrial, scientific or medical devices
- Designated low power radio stations
- Radio station buildings

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

- Depending on the location where the USB wireless adapter is used, radio wave interference may occur, which may result in a transmission speed decrease or an interruption in communication. In particular, be aware that using the USB wireless adapter at locations where there is reinforced steel, other types of metals or concrete is likely to cause radio wave interference.
- Available Channels
The USB wireless adapter uses the 2.4GHz radio frequency band, but depending on the country or region you are in, the channels that you can use might be limited. Consult your dealer for information on the usable channels.
- Bringing the optional USB wireless adapter out of the country or region you reside in and using it there could lead to a violation of the radio laws of that country or region.

1. Connection to the network

1.1 System requirements

1.1.1 Required equipment preparation

The following equipment is required to connect the projector to your computer through the network.

■ **Common** The projector: 1 unit, Computer : minimum 1 set

■ **Depending on how you want to connect**

1) For the wired connection *1

LAN cable (CAT-5 or greater): 1 piece

2) For the wireless connection *2

- Projector side

IEEE802.11 b/g/n USB wireless adapter (part number: SP-DONGLE-USB) :
1 unit

- Computer side

IEEE802.11 b/g/n wireless LAN equipment: 1 unit for each *3

*1: The system for using the projector's network function requires communication environment conforming 100Base-TX or 10Base-T.

*2: An access point is required when the wireless LAN connection is used as Infrastructure mode.

*3: 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 has embedded wireless LAN.

To eliminate communication problems, use a Wi-Fi certified wireless network device.

1.1.2 Hardware and software requirement for computer

To connect your computer to the projector and use the projector's network function, your computer needs to meet the following requirements:

✓ **OS:** One of the following.

Windows[®] XP Home Edition /Professional Edition

Windows Vista[®] Home Basic /Home Premium /Business /Ultimate /Enterprise

Windows[®] 7 Starter /Home Basic /Home Premium /Professional /Ultimate /
Enterprise

✓ **CPU:** Pentium 4 (2.8 GHz or higher)

✓ **Graphic card:** 16 bit, XGA or higher

* When using "LiveViewer", we recommend that your computer's resolution is set to 1024 x 768.

✓ **Memory:** 512 MB or higher

✓ **Hard disk space:** 100 MB or higher

✓ **Web browser:** Internet Explorer[®] 6.0 or higher

✓ **CD-ROM/DVD-ROM drive**

1.1 System requirements (continued)

NOTE • The network communication control is disabled while the projector is in standby mode if the STANDBY MODE item is set to SAVING. Set the STANDBY MODE to NORMAL to set up the network communication to the projector. (📖 **SETUP menu** in the **Operating Guide**)

- You can get the latest application versions for the projector's network functions and the latest information for this product from the InFocus website (www.infocus.com/support).

1.2 Quick connection

"LiveViewer" supports very quick and simple connection to the network. When using the network function, we recommend that you install "LiveViewer" on your computer. For details, refer to the "LiveViewer" manual.

In case you don't want to use "LiveViewer" or you cannot use it by some reason, follow the manual settings instructions, item 1.3 for the wired LAN (📖7) and item 1.4 for the wireless LAN. (📖11)

1.3 Manual network connection setting - Wired LAN -

This section explains how to set network connections up manually.

1.3.1 Equipment connection

Connect the projector and a computer with a LAN cable.

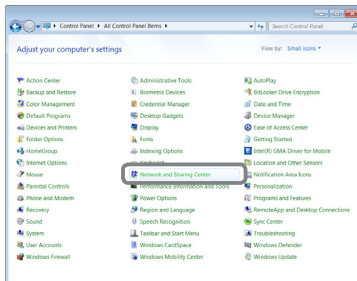
* Before connecting with an existing network, contact the network administrator.

Next, check the following computer settings.

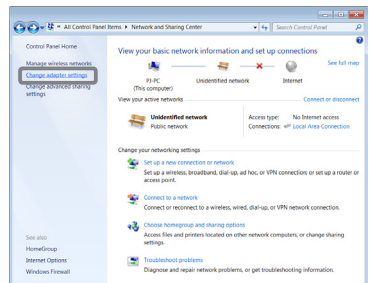
1.3.2 Network settings

This provides an explanation of network connection settings for Windows® 7 and Internet Explorer.

- 1) Log on to Windows® 7 as an administrator authority. Administrator authority is the account which can access all functions.
- 2) Open "Control Panel" from the "Start" menu.
- 3) Open "View network status and tasks" in "Network and Internet".
With the icons in the "Control Panel" window displayed, click "Network and Sharing Center".



- 4) Click "Change adapter settings" in the menu on the left side of the "Network and Sharing Center" window.

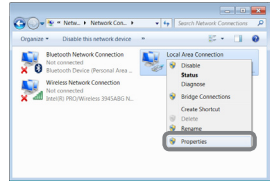


(continued on next page)

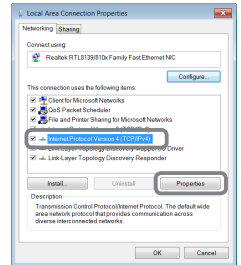
1. Connection to the network

1.3 Manual network connection setting - Wired LAN - (continued)

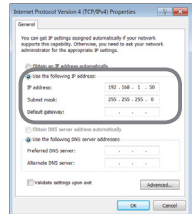
- 5) Right-click "Local Area Connection" to open the menu, and select "Properties".



- 6) Select "Internet Protocol Version 4 (TCP/IPv4)" and click [Properties].



- 7) Select "Use the following IP address" and configure the IP address, Subnet mask and Default gateway for the computer accordingly. If a DHCP server exists in the network, you can select "Obtain an IP address automatically" and the IP address will be assigned automatically. After completing the settings, click [OK] to close the window.



(continued on next page)

1.3 Manual network connection setting - Wired LAN - (continued)

[About IP address]

■ Setting manually

The Network address portion of the computer and the projector's IP address must match. In addition, the computer's IP address must be unique from any other device, including the projector, in the network.

For example:

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)

Select a number from 1 to 254 for "xxx" which is unique from other equipment. 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.

NOTE • "0.0.0.0" cannot be set to the IP address.

- The projector's IP address can be changed by using the configuration utility from a web browser. (📖 21)
- 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 the network administrator for details.

■ Setting automatically

When a DHCP server exists in the connected network, it is possible to assign an IP address to the projector and computer automatically.

* DHCP ("Dynamic Host Configuration Protocol") provides the required network settings like the IP address from server to client. A server that has DHCP functionality is called a DHCP server.

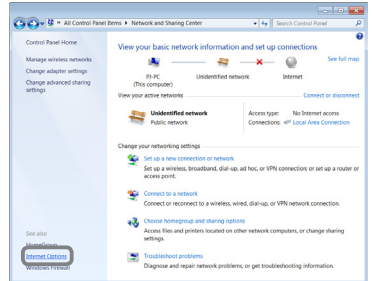
(continued on next page)

1. Connection to the network

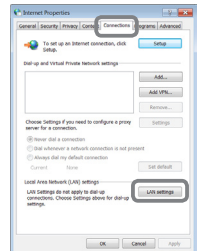
1.3 Manual network connection setting - Wired LAN - (continued)

1.3.3 “Internet Option” setting

1) Click “Internet Options” in the “Network and Sharing Center” window to open the “Internet Properties” window.

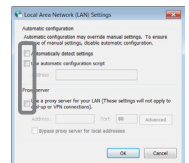


2) Click the “Connections” tab and then click the [LAN settings] button to open “Local Area Network (LAN) Settings”.



3) Uncheck all boxes in the “Local Area Network (LAN) Settings” window.

After completing the settings, click [OK] to close the window.



1.4 Manual network connection setting - Wireless LAN -

Using the optional USB wireless adapter on the projector enables the projector and computer to communicate in both Ad-Hoc and Infrastructure modes. This section explains how to set up a wireless LAN connection manually.

1.4.1 Preparation for wireless LAN connection

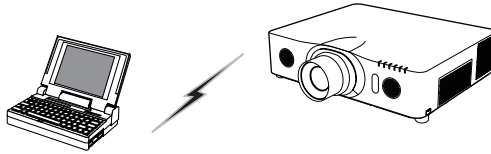


Fig. 1.4.1.a Without an access point communication (Ad-Hoc)

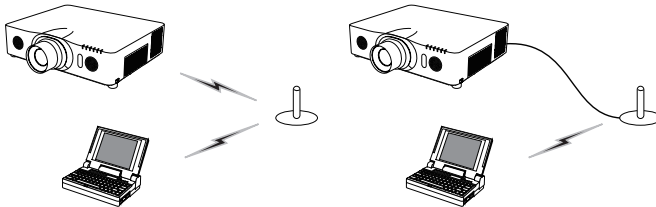


Fig. 1.4.1.b With an access point communication (Infrastructure)

- * Ad-Hoc is a LAN communication method that does not require an access point to communicate.
- * Infrastructure is a LAN communication method that requires an access point to communicate. If the equipment exists, this mode is most efficient. If communicating with an existing network, consult with your network administrator.

First, insert the USB wireless adapter into one of the **USB TYPE A** ports.

( **Connecting with your devices** in the **Operating Guide**)

Then, set up the computer for wireless communication.

When the computer comes with a built-in IEEE802.11b/g/n wireless LAN device, enable it and disable other network connections. If a wireless LAN device is not built into the computer, connect an IEEE802.11b/g/n wireless LAN device and install the device driver. For details, refer to the computer and the wireless LAN device's users' guides.

1. Connection to the network

1.4 Manual network connection setting - Wireless LAN - (continued)

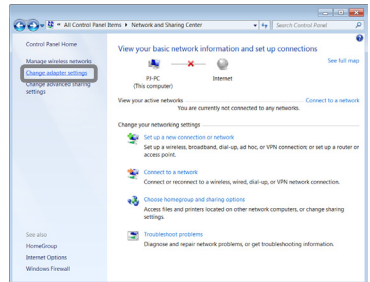
1.4.2 Wireless LAN connection set up

Using the standard Windows® 7 wireless LAN utility, set up the initial Wireless LAN settings for the projector as follows:

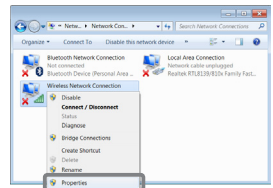
Connection Control	: Ad-Hoc
SSID	: wireless
Channel	: 1
Encryption rating	: None
IP address	: 192.168.10.254

* You can change these settings using your computer's web browser or from the projector's Network menu. Refer to section **3.1.3 Network Settings** (20) or **NETWORK** menu in the **Operating Guide**.

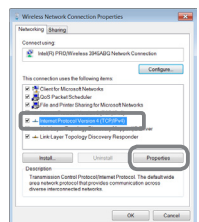
1) Select "Change adapter settings" from the menu on the left side of the "Network and Sharing Center" window.



2) Right-click "Wireless Network Connection" to open the menu, and select "Properties".



3) Select "Internet Protocol Version 4 (TCP/IPv4)" and click [Properties].

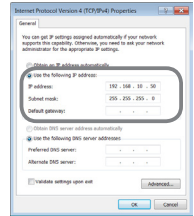


(continued on next page)

1.4 Manual network connection setting - Wireless LAN - (continued)

- 4) Select "Use the following IP address" and configure the IP address, Subnet mask and Default gateway for the computer accordingly.

After completing the settings, click [OK] to close the window.



[About the IP address]

The Network address portion of the IP address setting on your computer and your projector must match. In addition, the computer's IP address must be unique from any other device, including the projector, in the network.

For example

The projector's settings are as follows:

IP address: 192.168.10.254
 Subnet mask: 255.255.255.0
 (Network address: 192.168.10 in this case)

Therefore, specify the computer's IP address as follows:

IP address: 192.168.10.xxx (xxx shows decimal number.)
 Subnet mask: 255.255.255.0
 (Network address: 192.168.10 in this case)

Select a number from 1 to 254 for "xxx" which is unique from other equipment. In this case, since the IP address of the projector is "192.168.10.254", specify a setting between 1 to 253 for the computer.

NOTE • "0.0.0.0" cannot be set to the IP address.

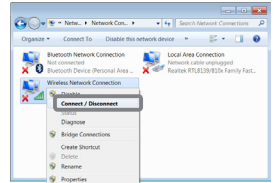
- The projector's IP address can be changed by using the configuration utility from a web browser. (20)
- If the projector and the computer exist in the same network (i.e., same network address), you can leave the default gateway field blank.
- When the projector and the computer exist in different networks, the default gateway must be set.

(continued on next page)

1. Connection to the network

1.4 Manual network connection setting - Wireless LAN - (continued)

- 5) Right-click "Wireless Network Connection" to open the menu, and select "Connect / Disconnect".



- 6) From the connectable wireless networks, select the SSID of the projector (set to "wireless" by default), and click [Connect]. If you have enabled encryption, a window asking for the encryption key will be displayed. Input the associated encryption key.

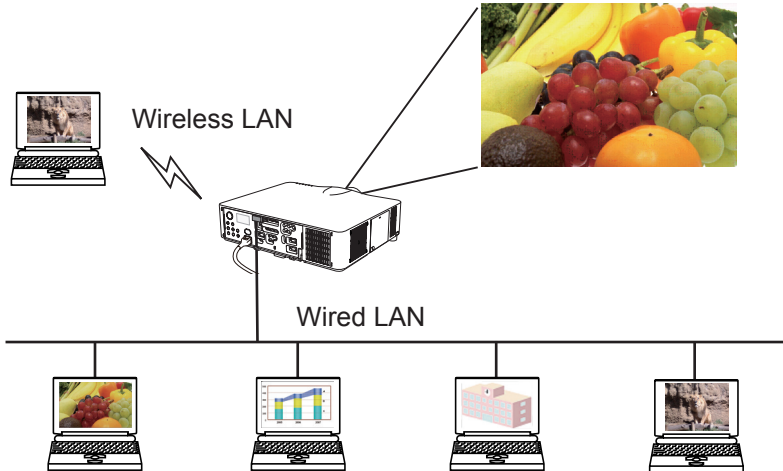


- 7) After connection is established, "Connected" will appear to the right of SSID.



2. Network Presentation

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



To present over the network, a proprietary software application, "LiveViewer", is required.

You can download it from the InFocus website (www.infocus.com/support). For details about this feature, and for instructions to install "LiveViewer", refer to the "LiveViewer" manual.

To start a Network Presentation, select the **LAN** port as the input source on the projector and click the Starting Capture button on "LiveViewer".

"LiveViewer" functions are model dependent. If you want to use the latest version of "LiveViewer", reference the group item in "LiveViewer" User's Manual. This model is in the **E** Group.

NOTE • When the screen resolution of your computer is larger than specified, the computer image will be shrunk to the size listed below before it is transferred to the projector:

IN5132, IN5142: 1024 x 768 (XGA)

All other models: 1280 x 800

The transferred image will be displayed smaller on the projected screen even if the projector resolution is larger than above.

3. Web Control

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

NOTE • Internet Explorer® 6.0 or later is required.


- If JavaScript® is disabled in your web browser configuration, you must enable JavaScript® in order to use the projector web pages properly. See the Help files for your web browser for details on how to enable JavaScript®.
- We recommend that all web browser updates are installed.
- If data is transferred via wireless and wired LAN simultaneously, the projector may not be able to process the data correctly.

Refer to the following for configuring or controlling the projector from a web browser.



Make sure that both your computer and projector are connected to the network, and then open the Web browser.

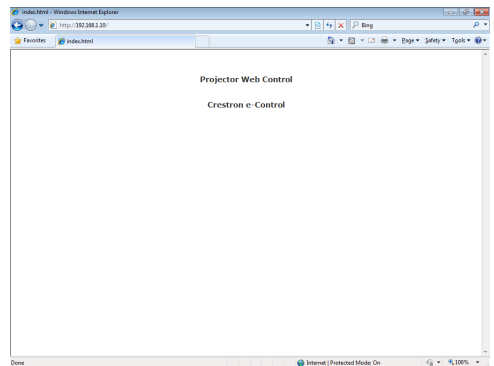
Enter the projector's IP address into URL input box of the Web browser as per the example below, and then press the Enter key or  button.

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


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

If the URL is entered correctly and the projector and your computer are connected to the same network correctly, the selection window as shown on the right will be displayed. You can choose to use Projector Web Control or Crestron e-Control® as a tool for controlling the projector. Click one of them.

For more details, refer to **3.1 Projector Web Control** ( 17) or **3.2 Crestron e-Control®** ( 42).



NOTE • Do not attempt to control the projector with the projector's menu or remote control, and via Web Control simultaneously. Some operational errors may occur.

- If **Crestron e-Control** in the **Network Settings** ( 21) is set to Disable, the selection window above will not appear. The Logon window of the Projector Web Control will display instead.
- Crestron e-Control® is created using Flash®. You need to install the Adobe® Flash® Player on your computer to use Crestron e-Control®.

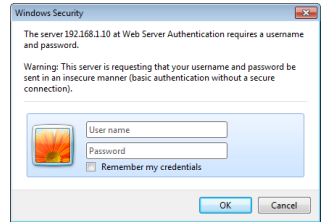
3.1 Projector Web Control

3.1.1 Logon

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

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

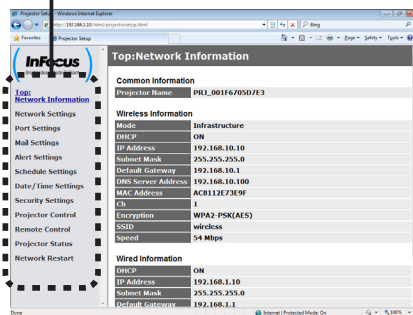
User name	Password
Administrator	<blank>




Logon window

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

Main menu

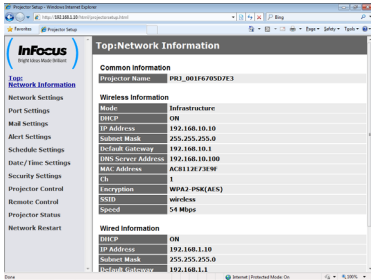


Click the desired operation or configuration item on the main menu.

NOTE • The language used on the Projector Web Control screen 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. ( **SCREEN** menu in the **Operating Guide**)

3.1 Projector Web Control (continued)

3.1.2 Network Information

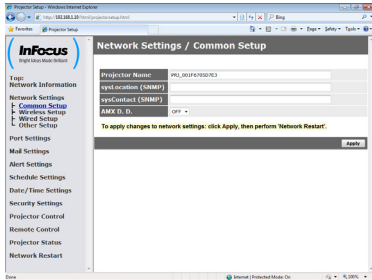


Displays the projector's current network configuration settings.

Item	Description
Common Information	Displays information common to both wireless and wired LAN.
Projector Name	Displays the projector name.
Wireless Information	Displays the current settings of wireless LAN.
Mode	Displays the wireless LAN communication mode.
DHCP	Displays the DHCP settings.
IP Address	Displays the IP address.
Subnet Mask	Displays the subnet mask.
Default Gateway	Displays the default gateway.
DNS Server Address	Displays the DNS server address.
MAC Address	Displays the MAC address.
Ch	Displays the wireless LAN channel.
Encryption	Displays the data encryption setting.
SSID	Displays the SSID used by the projector.
Speed	Displays the current wireless LAN transmission speed.
Wired Information	Displays the current wired LAN settings.
DHCP	Displays the DHCP setting.
IP Address	Displays the IP address.
Subnet Mask	Displays the subnet mask.
Default Gateway	Displays the default gateway.
DNS Server Address	Displays the DNS server address.
MAC Address	Displays the MAC address.

3.1 Projector Web Control (continued)

3.1.3 Network Settings



Displays and configures network settings.

Item	Description
Common Setup	Used for configuring settings common to both the wireless and wired LAN.
Projector Name	Configures the name of the projector. The Projector Name can be up to 64 alphanumeric characters. Only letters, numbers and following symbols can be used. !"#\$%&'()*+,-./:;<=>@[\\]^_`{ }~ and space. A projector name is pre-assigned by default.
sysLocation (SNMP)	Configures the location to be referred to when using SNMP. The sysLocation can be up to 255 alphanumeric characters. Only numbers '0-9' and letters 'a-z', 'A-Z' can be used.
sysContact (SNMP)	Configures the contact information to be referred to when using SNMP. The sysContact can be up to 255 alphanumeric characters. Only numbers '0-9' and letters 'a-z', 'A-Z' can be used.
AMX D.D. (AMX Device Discovery)	Configures the projector's AMX Device Discovery settings so the projector can be detected by AMX controllers within the same network. For the details about the AMX Device Discovery, visit the AMX web site. <u>URL: http://www.amx.com</u> (as of May 2012)

(continued on next page)

3.1 Projector Web Control - Network Settings (continued)

Item	Description									
Wireless Setup	Used for configuring wireless LAN settings.									
Mode	Select "Ad-Hoc" or "Infrastructure".									
IP Configuration	Configures network settings.									
DHCP ON	Enables DHCP.									
DHCP OFF	Disables DHCP.									
IP Address	Configures the IP address when DHCP is disabled.									
Subnet Mask	Configures the subnet mask when DHCP is disabled.									
Default Gateway	Configures the default gateway when DHCP is disabled.									
DNS Server Address	Configures the DNS server address.									
Ch	Select from "1" to "11" a channel to use in the Ad-Hoc mode. NOTE • Depending on the country where you are the channels may vary. In addition, depending on the country or region where you are may be required to use a wireless network card that confirm to the standards in the respective country or region.									
Encryption	Select data encryption method.									
WEP Key	Input the WEP key. Either ASCII characters or hexadecimal numbers can be used during WEP key input. However, you cannot use a combination of both. The key is defined as follows according to the WEP and character formats. <table border="1" data-bbox="408 954 1005 1045"> <thead> <tr> <th>Encryption</th> <th>ASCII characters</th> <th>HEX numbers</th> </tr> </thead> <tbody> <tr> <td>WEP 64bit</td> <td>5 characters</td> <td>10 characters</td> </tr> <tr> <td>WEP 128bit</td> <td>13 characters</td> <td>26 characters</td> </tr> </tbody> </table>	Encryption	ASCII characters	HEX numbers	WEP 64bit	5 characters	10 characters	WEP 128bit	13 characters	26 characters
Encryption	ASCII characters	HEX numbers								
WEP 64bit	5 characters	10 characters								
WEP 128bit	13 characters	26 characters								
WPA Passphrase	Input WPA Passphrase. 8 to 63 input characters can be used. Only letters, numbers and following symbols can be used. !"#\$%&'()*+,-./:;<=>?@[\] ^ _ ` { } ~ and space									
SSID	Select an SSID from the list. If you must set your unique SSID, select [Custom] , then set your own SSID following the rules below. Up to 32 input characters can be used. Only letters, numbers and following symbols can be used. !"#\$%&'()*+,-./:;<=>?@[\] ^ _ ` { } ~ and space.									

(continued on next page)

3.1 Projector Web Control - Network Settings (continued)

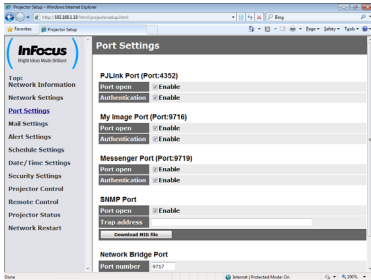
Item	Description
Wired Setup	Used for configuring wired LAN settings.
IP Configuration	Configures network settings.
DHCP ON	Enables DHCP.
DHCP OFF	Disables DHCP.
IP Address	Configures the IP address when DHCP is disabled.
Subnet Mask	Configures the subnet mask when DHCP is disabled.
Default Gateway	Configures the default gateway when DHCP is disabled.
DNS Server Address	Configures the DNS server address.
Other Setup	Configures other network settings.
Crestron e-Control	Set whether or not to use Crestron e-Control®. If you choose Disable, the Projector Web Control Logon window (not the selection window) will be initially displayed.

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

- NOTE** • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from **Network Restart** on the main menu (📖41).
- If you connect the projector to an existing network, consult a network administrator before setting server addresses.
 - The WEP Key, WPA passphrase and SSID settings will not be saved if invalid characters are used.
 - The projector does not allow both wireless and wired LAN to be connected to the same network. Do not set the same network address for both wireless and wired LAN.

3.1 Projector Web Control (continued)

3.1.4 Port Settings



Displays and configures communication port settings.

Item	Description
PJLink™ Port (Port:4352)	Configures the PJLink™ port (Port:4352).
Port open	Click the [Enable] check box to use port 4352.
Authentication	Click the [Enable] check box when authentication is required for this port.
My Image Port (Port:9716)	Configures the My Image Port (Port:9716).
Port open	Click the [Enable] check box to use port 9716.
Authentication	Click the [Enable] check box when authentication is required for this port.
Messenger Port (Port:9719)	Configures the Messenger Port (Port:9719).
Port open	Click the [Enable] check box to use port 9719.
Authentication	Click the [Enable] check box when authentication is required for this port.

(continued on next page)

3.1 Projector Web Control - Port Settings (continued)

Item	Description
SNMP Port	Configures the SNMP port.
Port open	Click the [Enable] check box to use SNMP.
Trap address	Configures the destination of the SNMP Trap in IP format. • The address allows an IP address or domain name if a valid DNS server is configured in Network Settings . The maximum length of the host or domain name is up to 255 characters.
Download MIB file	Downloads a MIB file from the projector.
Network Bridge Port	Configures the Bridge port number.
Port number	Input the port number. Any number between 1024 and 65535 can be used except for 41794, 9715, 9716, 9719, 9720, 5900, 5500, and 4352. By default, it is set to 9717.

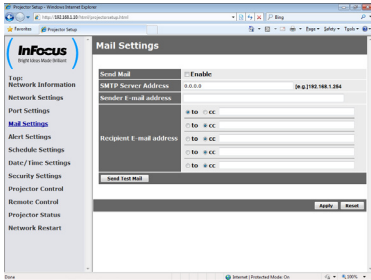
Click the **[Apply]** button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from **Network Restart** on the main menu (📖41).

3. Web Control

3.1 Projector Web Control (continued)

3.1.5 Mail Settings



Displays and configures e-mail addressing settings.

Item	Description
Send Mail	Click the [Enable] check box to use the e-mail function. Configure the conditions for sending e-mail under the Alert Settings .
SMTP Server Address	Configures the address of the mail server in IP format. <ul style="list-style-type: none">• The address allows an IP address or domain name if a valid DNS server is configured in Network Settings. The host or domain name can be up to 255 characters.
Sender E-mail address	Configures the sender e-mail address. The sender e-mail address can be up to 255 alphanumeric characters.
Recipient E-mail address	Configures the e-mail address of up to five recipients. You can also specify the [TO] or [CC] for each address. The recipient e-mail address can be up to 255 alphanumeric characters.

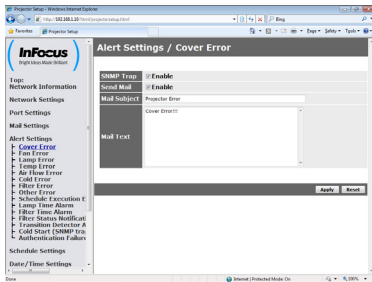
Click the **[Apply]** button to save the settings.

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

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

3.1 Projector Web Control (continued)

3.1.6 Alert Settings



Displays and configures failure & alert settings.

Item	Description
Cover Error	The lamp cover is not installed correctly.
Fan Error	The cooling fan is not operating.
Lamp Error	The lamp does not light, and the projector's interior may be overheated.
Temp Error	The projector's interior may be overheated.
Air Flow Error	The internal temperature is rising.
Cold Error	The projector's interior may be too cold.
Filter Error	The filter must be replaced.
Other Error	Other error. If this error is displayed, contact your dealer.
Schedule Execution Error	Schedule Execution error. (📖27)
Lamp Time Alarm	The lamp time has expired.
Filter Time Alarm	The filter time has expired.
Filter Status Notification	The details of the air filter status will be displayed.
Transition Detector Alarm	The projector has been moved. (📖SECURITY menu in the Operating Guide)
Cold Start	When the projector is supplied with power, it works as below. <ul style="list-style-type: none"> • If STANDBY MODE is set to NORMAL: the projector's power status changes from "OFF" to "Standby state". • If STANDBY MODE is set to SAVING: the projector's power status changes from "Standby state" to "ON (lamp is turned on)". (📖SETUP menu in the Operating Guide)
Authentication Failure	The SNMP access has been denied.

Refer to 📖**Troubleshooting** in the **Operating Guide** for further details on the errors listed above except for Other Error and Schedule Execution Error.

3.1 Projector Web Control - Alert Settings (continued)

The Alert Items are shown below.

Item	Description
Alarm Time	Configures the Alarm Time parameters. (Only Lamp Time Alarm and Filter Time Alarm .)
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts. (Except for Schedule Execution Error , Lamp Time Alarm , Filter Time Alarm , Filter Status Notification and Transition Detector Alarm .)
Send Mail	Click the [Enable] check box to enable e-mail alerts. (Except for Cold Start and Authentication Failure .)
Mail Subject	Configures the e-mail subject line to be sent. The subject line can be up to 100 alphanumeric characters. (Except Cold Start and Authentication Failure .)
Mail Text	Configures the e-mail text to be sent. The text can be up to 1024 alphanumeric characters, but using special characters as per below may shorten this length. Special characters " ' : & , % \ and space (Except Cold Start and Authentication Failure .)

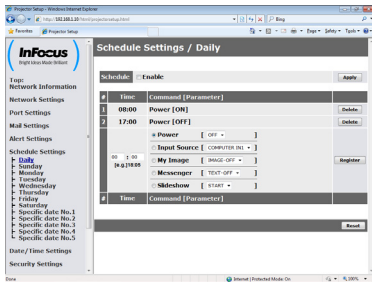
Click the **[Apply]** button to save the settings.

NOTE • The **Filter Error** e-mail trigger is dependent on the **FILTER MESSAGE** setting in the **SERVICE** item of the **OPTION** menu which defines 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 time limit that is set. No notification e-mail will be sent if the **FILTER MESSAGE** is set to **TURN OFF**. (📖 **OPTION** menu in the **Operating Guide**)

- **Lamp Time Alarm** defines the threshold for an e-mail notification (reminder) of the lamp time. When the lamp hours exceed the limit that is configured in the Projector Web Control, an e-mail will be sent.
- **Filter Time Alarm** defines the threshold for and e-mail notification (reminder) of the filter time. When the filter hours exceed the limit that is configured in the Projector Web Control, an e-mail will be sent.
- **Filter Status Notification** can be enabled for either or both **Status 1** and **2**. These notifications are equivalent to the **FILTER** indicators on the projector. (**Status 1**: off to orange, **Status 2**: orange to red) Refer to the **Operating Guide** for **FILTER** indicator details.

3.1 Projector Web Control (continued)

3.1.7 Schedule Settings



Displays and configures schedule settings.

Item	Description
Daily	Configures the daily schedule.
Sunday	Configures the Sunday schedule.
Monday	Configures the Monday schedule.
Tuesday	Configures the Tuesday schedule.
Wednesday	Configures the Wednesday schedule.
Thursday	Configures the Thursday schedule.
Friday	Configures the Friday schedule.
Saturday	Configures the Saturday schedule.
Specific date No.1	Configures the specific date (No.1) schedule.
Specific date No.2	Configures the specific date (No.2) schedule.
Specific date No.3	Configures the specific date (No.3) schedule.
Specific date No.4	Configures the specific date (No.4) schedule.
Specific date No.5	Configures the specific date (No.5) schedule.

3.1 Projector Web Control - Schedule Settings (continued)

The schedule settings are shown below.

Item	Description
Schedule	Click the [Enable] check box to enable the schedule.
Date (Month/Day)	Configures the month and date. This item appears only when Specific date (No. 1-5) is selected.

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

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


Item	Description
Time	Configures the time to execute commands.
Command [Parameter]	Configures the commands to be executed.
Power	Configures the parameters for power control.
Input Source	Configures the parameters for input switching.
My Image	Configures the parameters for My Image display. (📖50)
Messenger	Configures the parameters for Messenger data display. (📖51)
Slideshow	Configures the Start/Stop parameters for the Slideshow.

Click the **[Register]** button to add new commands to the schedule list.

Click the **[Delete]** button to delete commands from the schedule list.

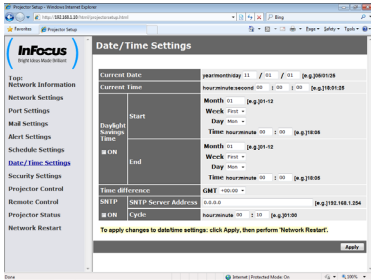
Click the **[Reset]** button to delete all commands and reset the schedule settings from the schedule list.

3.1 Projector Web Control - Schedule Settings (continued)

- NOTE** • 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.
 - “**My Image**” and “**Messenger**” events will not be executed appropriately but result in a “schedule execution error” when the lamp does not light and/or display data is not stored in the projector at the scheduled event execution time.
 - “**Input Source**” and “**My Image**” events will not be executed if the security feature is enabled and the projector is locked because of security features.
 - Certain projector error states (such as temperature error, lamp error) will prevent the projector from executing scheduled functions/events.
 - If an USB memory device is not detected by the projector or no image for display exists at the scheduled event time, a schedule execution error will occur against the scheduled Slideshow event.
 - When you start the Slideshow, the input source will automatically switch to **USB TYPE A**.
 - Image files stored in the root directory of the USB memory device will be displayed for the scheduled Slideshow.
 - Refer to  **Troubleshooting** in the **Operating Guide** if scheduled functions or events are not executing properly.

3.1 Projector Web Control (continued)

3.1.8 Date/Time Settings



Displays and configures the date and time settings.

Item	Description				
Current Date	Configures the current date in year/month/day format.				
Current Time	Configures the current time in hour:minute:second format.				
Daylight Savings Time	Click the [ON] check box to enable daylight savings time and set the following items.				
Start	Configures the date and time when daylight savings time begins.				
Month	Configures the month daylight savings time begins (1~12).				
Week	Configures the week of the month daylight savings time begins (First, 2, 3, 4, Last).				
Day	Configures the day of the week daylight savings time begins (Sun, Mon, Tue, Wed, Thu, Fri, Sat).				
Time	<table border="1"> <tr> <td>hour</td> <td>Configures the hour daylight savings time begins (0 ~ 23).</td> </tr> <tr> <td>minute</td> <td>Configures the minute daylight savings time begins (0 ~ 59).</td> </tr> </table>	hour	Configures the hour daylight savings time begins (0 ~ 23).	minute	Configures the minute daylight savings time begins (0 ~ 59).
hour	Configures the hour daylight savings time begins (0 ~ 23).				
minute	Configures the minute daylight savings time begins (0 ~ 59).				
End	Configures the date and time daylight savings time ends.				
Month	Configures the month daylight savings time ends (1 ~ 12).				
Week	Configures the week of the month daylight savings time ends (First, 2, 3, 4, Last).				
Day	Configures the day of the week daylight savings time ends (Sun, Mon, Tue, Wed, Thu, Fri, Sat).				
Time	<table border="1"> <tr> <td>hour</td> <td>Configures the hour daylight savings time ends (0 ~ 23).</td> </tr> <tr> <td>minute</td> <td>Configures the minute daylight savings time ends (0 ~ 59).</td> </tr> </table>	hour	Configures the hour daylight savings time ends (0 ~ 23).	minute	Configures the minute daylight savings time ends (0 ~ 59).
hour	Configures the hour daylight savings time ends (0 ~ 23).				
minute	Configures the minute daylight savings time ends (0 ~ 59).				

(continued on next page)

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

Item	Description
Time difference	Configures the time difference. Set the same time difference to match your computer. If unsure, consult your IT manager.
SNTP	Click the [ON] check box to retrieve Date and Time information from the SNTP server and set the following items.
SNTP Server Address	Configures the SNTP server address in IP format. • The address allows an IP address or domain name if a valid DNS server is configured in Network Settings . The host or domain name can be up to 255 characters.
Cycle	Configures the interval when Date and Time information from the SNTP server should be retrieved (hour:minute).

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

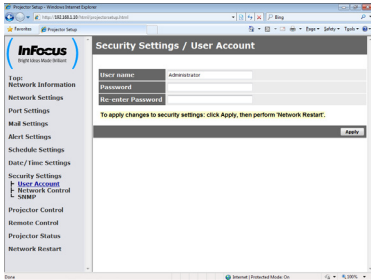
NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings change, you must restart the network connection. You can restart the network connection from **Network Restart** on the main menu(🔗41).

- If you connect the projector to an existing network, consult a network administrator before setting server addresses.
- Once you turn off AC power or the projector goes into SAVING mode (🔗SETUP menu in the **Operating Guide**), the current date and time setting is reset.
- To enable the SNTP function, the time difference must be set.
- When SNTP is enabled, the projector will retrieve Date and Time information from the time server and override other time settings.
- The internal clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time.

3. Web Control

3.1 Projector Web Control (continued)

3.1.9 Security Settings



Displays and configures passwords and other security settings.

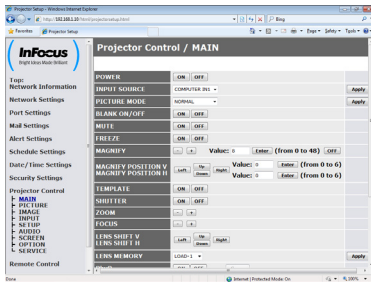
Item	Description
User Account	Configures the user name and password.
User name	Configures the user name. The text can be up to 32 alphanumeric characters.
Password	Configures the password. The text can be up to 255 alphanumeric characters.
Re-enter Password	Reenter the above password for verification.
Network Control	Configures the Authentication password for PJLink™ Port (Port: 4352) , My Image Port (Port: 9716) , and Messenger Port (Port: 9719) (41, 22, 23).
Authentication Password	Configures the Authentication password. The text can be up to 32 alphanumeric characters.
Re-enter Authentication Password	Reenter the above password for verification.
SNMP	Configures the community name if SNMP is used.
Community name	Configures the community name. The text can be up to 64 alphanumeric characters.

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

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection from **Network Restart** on the main menu (41).
• Only numbers '0-9' and letters 'a-z', 'A-Z' can be used.

3.1 Projector Web Control (continued)

3.1.10 Projector Control



The projector can be controlled using the items on the screen.

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

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

Item	Description
MAIN	
POWER	Turns the power on/off.
INPUT SOURCE	Selects the input source.
PICTURE MODE	Selects the picture mode setting.
BLANK ON/OFF	Turns the BLANK screen on/off.
MUTE	Turns the audio mute on/off.
FREEZE	Turns Freeze on/off.
MAGNIFY	Controls the magnify setting. Some input signal sources may not be able to magnified to the maximum setting value.
MAGNIFY POSITION V	Adjusts the vertical magnify position.
MAGNIFY POSITION H	Adjusts the horizontal magnify position.
TEMPLATE	Turns the template on/off.
SHUTTER	Turns the lens shutter on (closed) and off (opened).
ZOOM	Adjusts the zoom setting.
FOCUS	Adjusts the focus setting.
LENS SHIFT V	Adjusts the vertical lens shift.
LENS SHIFT H	Adjusts the horizontal lens shift.
LENS MEMORY	Saves, loads or clears the lens memory data.
PbyP *	Turns the PbyP mode on/off.
PbyP LEFT SOURCE *	Selects the source for the PbyP left side area.
PbyP RIGHT SOURCE *	Selects the source for the PbyP right side area.
PbyP MAIN AREA *	Selects the PbyP main area position.
MY IMAGE	Selects MY Image.
MY IMAGE DELETE	Deletes MY Image.

(continued on next page) * Only for **IN5135** and **IN5145**.

3.1 Projector Web Control - Projector Control (continued)

Item	Description
PICTURE	
BRIGHTNESS	Adjusts the brightness setting.
CONTRAST	Adjusts the contrast setting.
GAMMA	Selects the gamma setting.
COLOR TEMP	Selects the color temperature setting.
COLOR	Adjusts the color setting.
TINT	Adjusts the tint setting.
SHARPNESS	Adjusts the sharpness setting.
ACTIVE IRIS	Selects the active iris setting.
MYMEMORY SAVE	Saves the MyMemory data.
MYMEMORY RECALL	Recalls the MyMemory data.
IMAGE	
ASPECT	Selects the aspect setting.
OVER SCAN	Adjusts the over scan setting.
V POSITION	Adjusts the vertical position.
H POSITION	Adjusts the horizontal position.
H PHASE	Adjusts the horizontal phase.
H SIZE	Adjusts the horizontal size.
AUTO ADJUST EXECUTE	Automatically adjusts the image.
INPUT	
PROGRESSIVE	Selects the progressive setting.
VIDEO NR	Selects the video noise reduction setting.
COLOR SPACE	Selects the color space.
COMPONENT	Selects the COMPONENT port setting.
VIDEO FORMAT - S-VIDEO	Selects the s-video format setting.
VIDEO FORMAT - VIDEO	Selects the video format setting.
HDMI FORMAT - HDMI 1	Selects the HDMI™ format setting of the HDMI 1 port.
HDMI FORMAT - HDMI 2	Selects the HDMI™ format setting of the HDMI 2 port.
HDMI RANGE - HDMI 1	Selects the HDMI™ range setting of the HDMI 1 port.
HDMI RANGE - HDMI 2	Selects the HDMI™ range setting of the HDMI 2 port.

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3.1 Projector Web Control - Projector Control (continued)

Item	Description
INPUT (continued)	
COMPUTER IN - COMPUTER IN1	Selects the COMPUTER IN1 input signal type.
COMPUTER IN - COMPUTER IN2	Selects the COMPUTER IN2 input signal type.
FRAME LOCK - COMPUTER IN1	Turns the FRAME LOCK-COMPUTER IN1 function on/off.
FRAME LOCK - COMPUTER IN2	Turns the FRAME LOCK-COMPUTER IN2 function on/off.
FRAME LOCK - HDMI 1	Turns the FRAME LOCK-HDMI 1 function on/off.
FRAME LOCK - HDMI 2	Turns the FRAME LOCK-HDMI 2 function on/off.
SETUP	
AUTO KEYSTONE EXECUTE	Adjusts the keystone distortion automatically.
KEYSTONE V	Adjusts the vertical keystone distortion setting.
KEYSTONE H	Adjusts the horizontal keystone distortion setting.
PERFECT FIT	Adjusts the shape of the projected image at the corners.
AUTO ECO MODE	Turns on/off the automatic eco mode function.
ECO MODE	Selects the eco mode.
INSTALLATION	Selects the installation status.
STANDBY MODE	Selects the standby mode.
MONITOR OUT - COMPUTER IN1	Assigns the MONITOR OUT when the COMPUTER IN1 input port is selected.
MONITOR OUT - COMPUTER IN2	Assigns the MONITOR OUT when the COMPUTER IN2 input port is selected.
MONITOR OUT - LAN	Assigns the MONITOR OUT when the LAN input port is selected.
MONITOR OUT - USB TYPE A	Assigns the MONITOR OUT when the USB TYPE A input port is selected.
MONITOR OUT - USB TYPE B	Assigns the MONITOR OUT when the USB TYPE B input port is selected.
MONITOR OUT - HDMI 1	Assigns the MONITOR OUT when the HDMI 1 input port is selected.
MONITOR OUT - HDMI 2	Assigns the MONITOR OUT when the HDMI 2 input port is selected.
MONITOR OUT - COMPONENT	Assigns the MONITOR OUT when the COMPONENT input port is selected.
MONITOR OUT - S-VIDEO	Assigns the MONITOR OUT when the S-VIDEO input port is selected.
MONITOR OUT - VIDEO	Assigns the MONITOR OUT when the VIDEO input port is selected.
MONITOR OUT - STANDBY	Assigns the MONITOR OUT in the standby mode.

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3.1 Projector Web Control - Projector Control (continued)

Item	Description
AUDIO	
VOLUME	Adjusts the volume setting.
SPEAKER	Turns the built-in speaker on/off.
AUDIO SOURCE - COMPUTER IN1	Assigns the AUDIO SOURCE - COMPUTER IN1 input port.
AUDIO SOURCE - COMPUTER IN2	Assigns the AUDIO SOURCE - COMPUTER IN2 input port.
AUDIO SOURCE - LAN	Assigns the AUDIO SOURCE - LAN input port.
AUDIO SOURCE - USB TYPE A	Assigns the AUDIO SOURCE - USB TYPE A input port.
AUDIO SOURCE - USB TYPE B	Assigns the AUDIO SOURCE - USB TYPE B input port.
AUDIO SOURCE - HDMI 1	Assigns the AUDIO SOURCE - HDMI 1 input port.
AUDIO SOURCE - HDMI 2	Assigns the AUDIO SOURCE - HDMI 2 input port.
AUDIO SOURCE - COMPONENT	Assigns the AUDIO SOURCE - COMPONENT input port.
AUDIO SOURCE - S-VIDEO	Assigns the AUDIO SOURCE - S-VIDEO input port.
AUDIO SOURCE - VIDEO	Assigns the AUDIO SOURCE - VIDEO input port.
AUDIO SOURCE - AUDIO OUT STANDBY	Assigns the AUDIO SOURCE in the standby mode.
HDMI AUDIO - HDMI 1	Selects the HDMI™ audio setting of the HDMI 1 port.
HDMI AUDIO - HDMI 2	Selects the HDMI™ audio setting of the HDMI 2 port.
SCREEN	
LANGUAGE	Selects the OSD language.
MENU POSITION V	Adjusts the vertical Menu position.
MENU POSITION H	Adjusts the horizontal Menu position.
BLANK	Selects the BLANK screen.
START UP	Selects the start up screen mode.
MyScreen Lock	Turns MyScreen lock function on/off.
MESSAGE	Turns the message function on/off.
TEMPLATE	Selects the template setting.
C.C. - DISPLAY	Selects Closed Caption DISPLAY setting.
C.C. - MODE	Selects Closed Caption MODE setting.
C.C. - CHANNEL	Selects Closed Caption CHANNEL setting.

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3.1 Projector Web Control - Projector Control (continued)

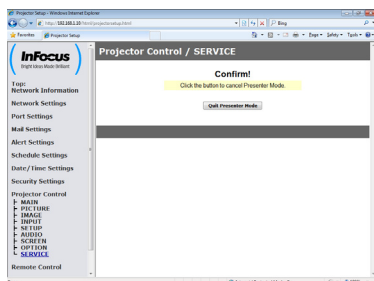
Item	Description
OPTION	
SOURCE SKIP - COMPUTER IN1	Selects the Source Skip - COMPUTER IN1 setting.
SOURCE SKIP - COMPUTER IN2	Selects the Source Skip - COMPUTER IN2 setting.
SOURCE SKIP - LAN	Selects the Source Skip - LAN setting.
SOURCE SKIP - USB TYPE A	Selects the Source Skip - USB TYPE A setting.
SOURCE SKIP - USB TYPE B	Selects the Source Skip - USB TYPE B setting.
SOURCE SKIP - HDMI 1	Selects the Source Skip - HDMI 1 setting.
SOURCE SKIP - HDMI 2	Selects the Source Skip - HDMI 2 setting.
SOURCE SKIP - COMPONENT	Selects the Source Skip - COMPONENT setting.
SOURCE SKIP - S-VIDEO	Selects the Source Skip - S-VIDEO setting.
SOURCE SKIP - VIDEO	Selects the Source Skip - VIDEO setting.
AUTO SEARCH	Turns the automatic signal search function on/off.
AUTO KEYSTONE	Turns the automatic keystone distortion correction function on/off.
DIRECT POWER ON	Turns the direct power on function on/off.
AUTO POWER OFF	Configures the timer to shut off the projector when no signal is detected.
SHUTTER TIMER	Selects the shutter timer setting.
USB TYPE B	Selects the USB TYPE B setting.
MY BUTTON-1	Assigns the functions for the MY BUTTON-1 button on the remote control.
MY BUTTON-2	Assigns the functions for the MY BUTTON-2 button on the remote control.
MY BUTTON-3	Assigns the functions for the MY BUTTON-3 button on the remote control.
MY BUTTON-4	Assigns the functions for the MY BUTTON-4 button on the remote control.
SERIAL PORT ECHO	Controls whether the serial port echoes characters.

(continued on next page)

3. Web Control

3.1 Projector Web Control - Projector Control (continued)

Item	Description
OPTION (continued)	
REMOTE RECEIV. - FRONT	Turns the front IR sensor on/off.
REMOTE RECEIV. - REAR	Turns the rear front IR sensor on/off.
REMOTE FREQ. - NORMAL	Turns the remote control signal frequency normal function on/off.
REMOTE FREQ. - HIGH	Turns the remote control signal frequency high function on/off.
REMOTE ID	Selects Remote ID setting.

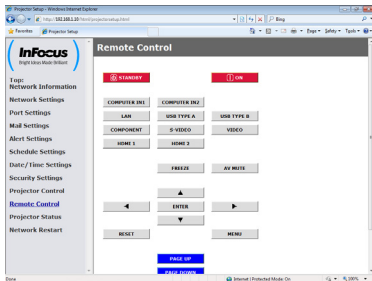


This item is executed when the button is clicked. It does not display a confirmation message. Click the **[Quit Presenter Mode]**.

Item	Description
SERVICE	
Quit Presenter Mode	Quit compulsorily from the Presenter mode.

3.1 Projector Web Control (continued)

3.1.11 Remote Control



Remote control functions are assigned in the Web Remote Control screen.

Do not attempt to control the projector using both the projector's remote control and the Web Remote Control simultaneously. Some operational errors may occur.

Item	Description
STANDBY	Assigned the same operation as the STANDBY button.
ON	Assigned the same operation as the ON button.
COMPUTER IN1	Assigned the same operation as the COMPUTER IN1 button.
COMPUTER IN2	Assigned the same operation as the COMPUTER IN2 button.
LAN	Assigned the same operation as the LAN button.
USB TYPE A	Assigned the same operation as the USB TYPE A button.
USB TYPE B	Assigned the same operation as the USB TYPE B button.
COMPONENT	Assigned the same operation as the COMPONENT button.
S-VIDEO	Assigned the same operation as the S-VIDEO button.
VIDEO	Assigned the same operation as the VIDEO button.
HDMI 1	Assigned the same operation as the HDMI 1 button.
HDMI 2	Assigned the same operation as the HDMI 2 button.
FREEZE	Assigned the same operation as the FREEZE button.
AV MUTE	Assigned the same operation as the AV MUTE button.
▲	Assigned the same operation as the ▲ button.
▼	Assigned the same operation as the ▼ button.
◀	Assigned the same operation as the ◀ button.
▶	Assigned the same operation as the ▶ button.
ENTER	Assigned the same operation as the ENTER button.
MENU	Assigned the same operation as the MENU button.
RESET	Assigned the same operation as the RESET button.
PAGE UP	Assigned the same operation as the PAGE UP button.
PAGE DOWN	Assigned the same operation as the PAGE DOWN button.
SLIDESHOW	Starts the Slideshow.

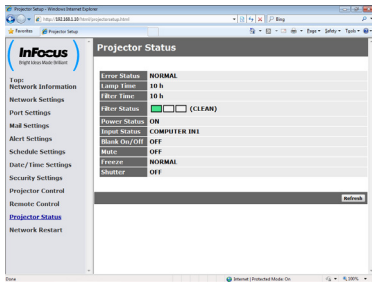
(continued on next page)

3.1 Projector Web Control - Remote Control (continued)

- NOTE** • The Web Remote Control does not support repeated functions when a button is clicked down and held.
- Since the repeat function is not available, click the button repeatedly as many times as you require.
 - Even if you click and hold the button, the Web Remote Control only sends your request command once. Release the button, and click it again.
 - When the **[STANDBY]** or **[ON]** button is pushed, a message window comes up to confirm the operation. To control the power, push **[OK]**, otherwise push **[Cancel]**.

3.1 Projector Web Control (continued)

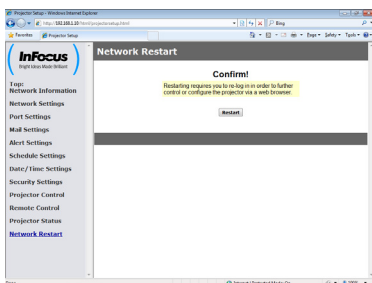
3.1.12 Projector Status



Displays the settings and status of the projector.

Item	Description
Error Status	Displays the current error status.
Lamp Time	Displays the current lamp usage time.
Filter Time	Displays the current filter usage time.
Filter Status	Displays the current cleanliness level of the air filter.
Power Status	Displays the current power status.
Input Status	Displays the current input signal source.
Blank On/Off	Displays the current BLANK screen on/off status.
Mute	Displays the current audio mute on/off status.
Freeze	Displays the current Freeze status.
Shutter	Displays the current Shutter status.

3.1.13 Network Restart

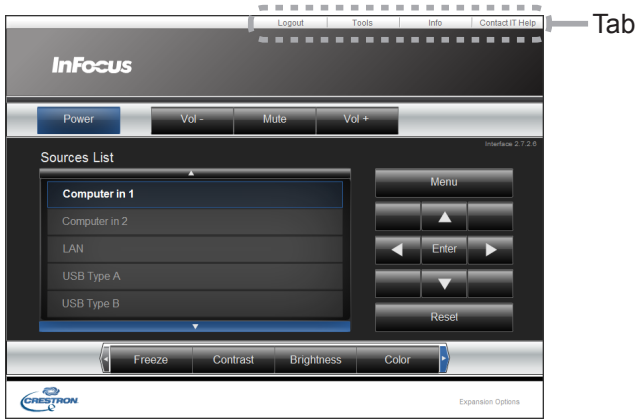


Restarts the projector's network connection.

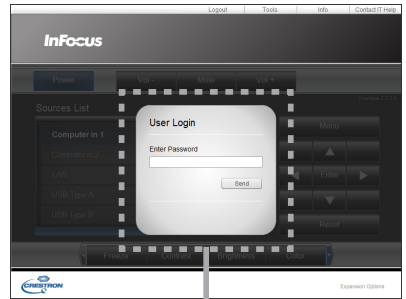
Item	Description
Restart	Restarts the projector's network connection in order to activate new configuration settings.

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

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 (46), a dialog prompting you to enter the password as shown on the right will be displayed, and no operation will be 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 the Tools window (45).
Info	Opens the Info window (47).
Contact IT Help	Opens the Help Desk window (48).

NOTE • If Crestron e-Control in the **Network Settings** (21) is set to Disable, Crestron e-Control® cannot be used to operate the projector. Enable Crestron e-Control and close the web browser. Next, restart the web browser and then enter 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.

3.2 Crestron e-Control® (continued)

3.2.1 Main window



You can operate the projector's basic controls on this screen.

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

1 Click a button and operate as follows:

Button	Description
Power	Turns the power on/off.
Vol - / Vol +	Adjusts the volume setting.
Mute	Turns the audio 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 the input from the COMPUTER IN1 port.
Computer in2	Selects the input from the COMPUTER IN2 port.
LAN	Selects the input from the LAN port.
USB Type A	Selects the input from the USB TYPE A ports.
USB Type B	Selects the input from the USB TYPE B port.
HDMI 1	Selects the input from the HDMI 1 port.
HDMI 2	Selects the input from the HDMI 2 port.
Component	Selects the input from the COMPONENT port.
S-Video	Selects the input from the S-VIDEO port.
Video	Selects the input from the VIDEO port.

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

3 Click a button and operate as follows: To show the hidden buttons, click the ◀ / ▶ icons at the left and right ends.

Button	Description
Freeze	Turns Freeze on/off.
Contrast	Adjusts the contrast setting.
Brightness	Adjusts the brightness setting.
Color	Adjusts the color setting.
Sharpness	Adjusts the sharpness setting.
Magnify	Controls the magnification setting using the [+] / [-] buttons. Use the [▲] [▼] [◀] [▶] buttons to move to the area you want to magnify.
Auto	Adjusts the image automatically.
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 the the MENU button.
Enter	Assigned the same operation as the ENTER button.
Reset	Assigned the same operation as the RESET button.
▲	Assigned the same operation as the ▲ button.
▼	Assigned the same operation as the ▼ button.
◀	Assigned the same operation as the ◀ button.
▶	Assigned the same operation as the ▶ 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

- Two-byte characters should not be used.
- This window must contain data. It 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.

Item	Description
Projector Name	Configures the name of the projector. 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.

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

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

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

3 Projector (continued)

Configures the network settings of the projector.

Item	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 for 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. Support characters include spaces and: !"#\$%&'()*+,-./:;<=>?@[\\]^_`{ }~
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

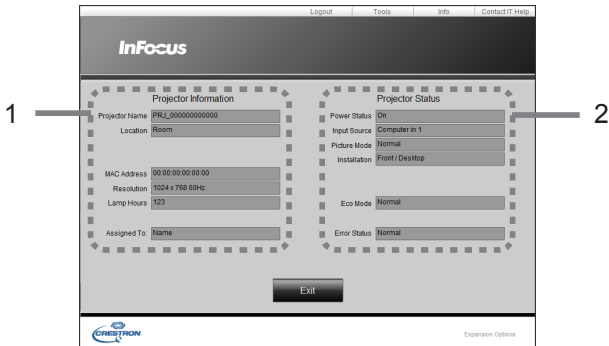
Configures the Admin Password. To prompt for the entry of Admin Password before displaying the Tools window, select the checkbox.

Item	Description
New Password	Configures the password. You can specify a password up to 26 alphanumeric characters. Support characters include spaces and: !"#\$%&'()*+,-./:;<=>?@[\\]^_`{ }~
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 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 projector's location name.
MAC Address	Displays the projector's wired LAN MAC address.
Resolution	Displays the resolution and vertical frequency of the signal input selected on the projector.
Lamp Hours	Displays the usage time for the current lamp.
Assigned To:	Displays the projector's user name.

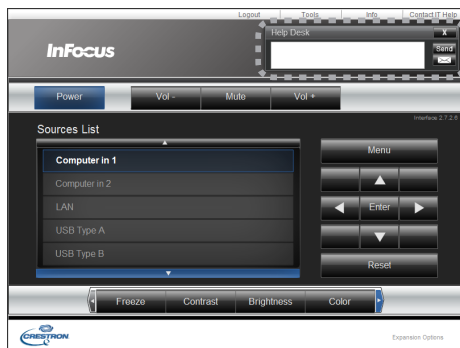
2 Projector Status

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


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

3.2 Crestron e-Control® (continued)

3.2.4 Help Desk window

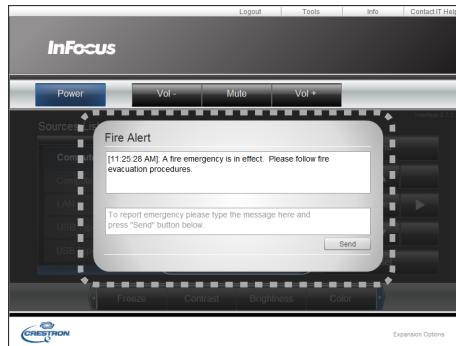


Sends/receives messages to/from the administrator for Crestron RoomView® Express.

Button	Description
Send	Sends a message.
	Check the received message.

3.2 Crestron e-Control® (continued)

3.2.5 Emergency Alert



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

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

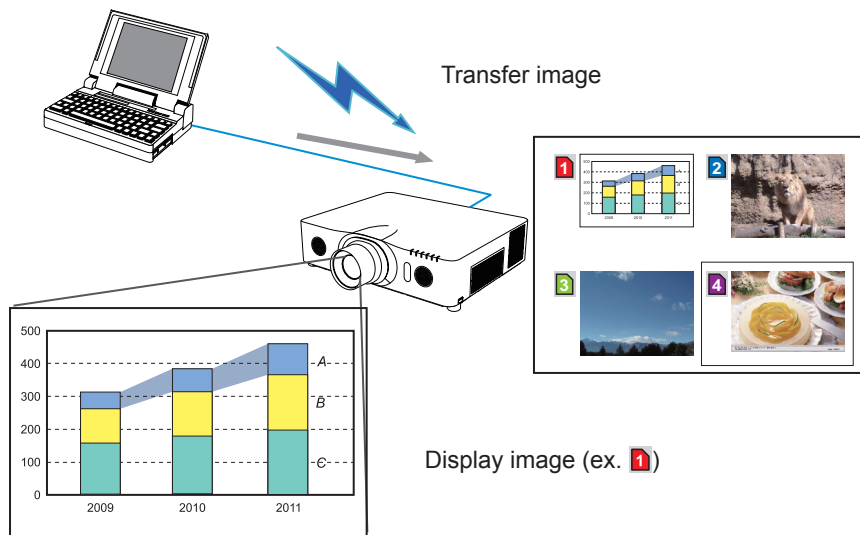
NOTE • For details about the Emergency Alert, refer to the manual of Crestron RoomView® Express.

- The alert message from Crestron RoomView® is displayed on the screen of the projector in a way similar to the real-time text of the Messenger function (51). If another real-time text is currently being displayed, it will be overwritten by the alert message. However, if the priority of the real-time text is set to high, it will not be overwritten by the alert message, and the latter will not appear on the screen of the projector. For details, refer to the Messenger application manual.

4. My Image Function

4. My Image Function

The projector can display still images that are transferred via the network.



MY IMAGE transmission requires a proprietary software application for your computer.

Use the application to transfer the image.

It can be downloaded from the InFocus website (www.infocus.com/support).

For more information, refer to the application manual.

To display a transferred image, select the MY IMAGE item in the NETWORK menu.

For more information, see the MY IMAGE description in the NETWORK menu.

([BOOK](#) NETWORK menu in the **Operating Guide**)

NOTE • It is possible to send up to 4 image files.

• **MY BUTTON** will display an image, if it is associated with MY IMAGE.

([BOOK](#) OPTION menu in the **Operating Guide**)

• The image file also can be displayed by using the schedule function from the web browser. Refer to item 7.3 **Event Scheduling** ([BOOK](#) 59) for details.

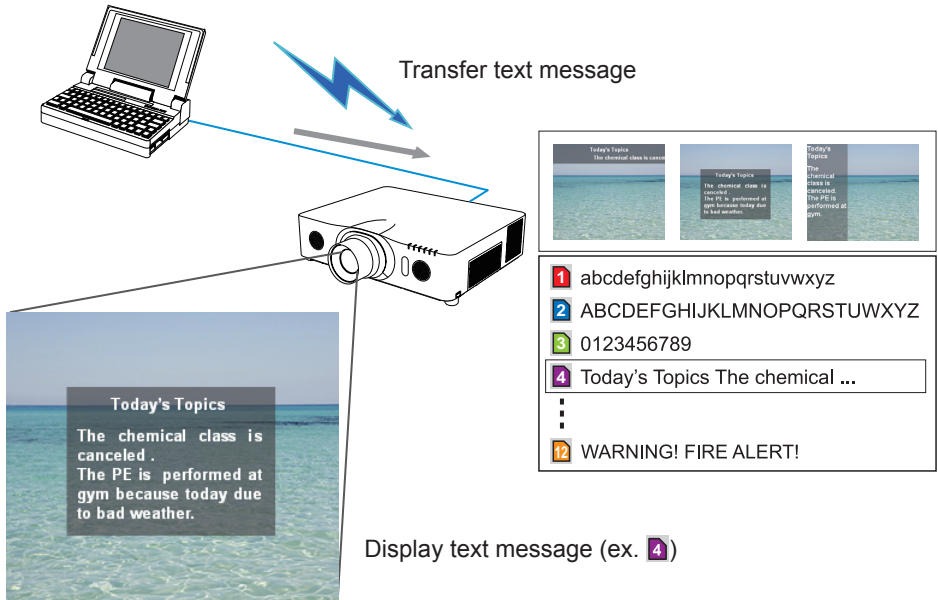
• If you display MY Image on screen while you are using the USB Display function, the USB Display application will close. To restart the application, exit the MY IMAGE function, and then the projector software, LiveViewerLiteForUSB.exe, will run again. ([BOOK](#) USB Display in the **Operating Guide**)

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

5. Messenger Function

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

Text messages can be typed in the computer and displayed immediately or a message which has been stored in the projector can be displayed.



The Messenger function requires a proprietary software application for your computer. To edit, transfer and display the text message, use the application. You can download it from the InFocus website (www.infocus.com/support). For more information, refer to the application manual.

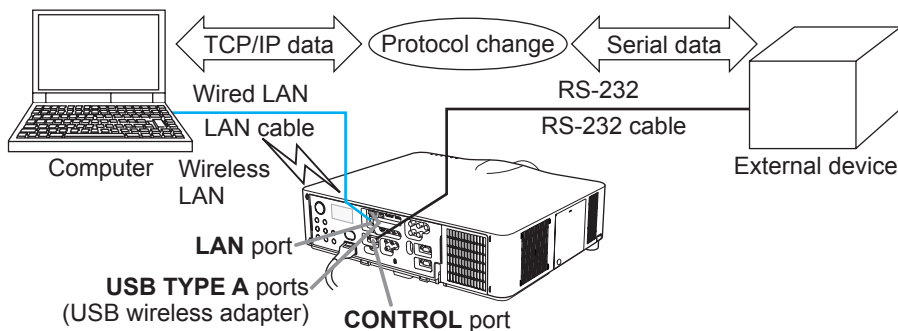
NOTE • It is possible to store up to 12 text messages.

- The **MY BUTTON** will turn text messages on and off, if it is associated with MESSENGER. ([OPTION](#) menu in the **Operating Guide**)
- The text file also can be displayed by using the schedule function via the web browser. Refer to item **7.3 Event Scheduling** ([59](#)) for the detail.
- If data is transferred via wireless and wired LAN simultaneously, the projector may not be able to process the data correctly.

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




6.1 Connecting devices

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

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

6.2 Communication set up

To set up communication using NETWORK BRIDGE for the projector, use the COMMUNICATION menu. Open the projector menu and select the OPTION - SERVICE - COMMUNICATION menu. ( **OPTION 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-232 port of the connected device.

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

- 3) Using the TRANSMISSION METHOD menu, set up the **CONTROL** port appropriate for your situation.

NOTE • OFF is the default setting of COMMUNICATION TYPE.
 • Using the COMMUNICATION menu, set up the communication. Remember that an inappropriate set up can cause a communication malfunction.
 • When one or both of the NETWORK BRIDGE settings is selected in the COMMUNICATION TYPE menu, the **CONTROL** port cannot receive RS-232 commands.

6.3 Communication port

For the NETWORK BRIDGE function, send the data from the computer to the projector using the **Network Bridge Port** which is configured in **Port Settings** of web browser. ( 23)

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

6.4 Transmission method

The transmission method can only be selected when the NETWORK BRIDGE is selected for the COMMUNICATION TYPE.

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

HALF-DUPLEX ↔ FULL-DUPLEX

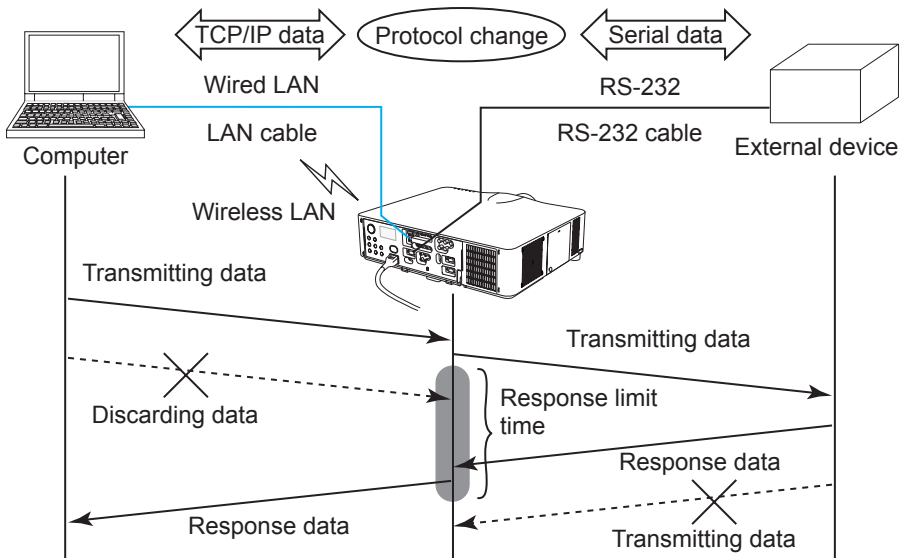
6.4.1 HALF-DUPLEX

This method allows the projector to make two way communication, either transmitting or receiving data, in a single direction at a time.

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

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 response data waiting time limit. (**OPTION menu > SERVICE > COMMUNICATION** in the **Operating Guide**)

OFF ↔ 1s ↔ 2s ↔ 3s (↔ OFF)

6.4 Transmission method (continued)

NOTE • When using the HALF-DUPLEX method, the projector can send out a maximum of 254 bytes at once.

- If the response data from the external device does not need to be monitored 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 default setting is OFF.

6.4.2 FULL-DUPLEX

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

When using this method, the computer and an external device will send the data out of synchronization. If the data should be synchronized, set up the computer to do so.

NOTE • When the computer controls the synchronization of the transmitting and receiving of data, it may not be able to control an external device well depending on the computer's processing status.

7. Other Functions

7.1 E-mail Alerts

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

NOTE • Up to five e-mail addresses can be specified.
• The projector may be not able to send an e-mail if the projector suddenly loses power.

Mail Settings (📖24)

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


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 **[Mail Settings]** and configure each item. Refer to item **3.1.5 Mail Settings (📖24)** for further information.
- 4) Click the **[Apply]** button to save the settings.

NOTE • Click the **[Send Test Mail]** button in **[Mail Settings]** 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	<Testing date>
	Time	<Testing time>
	IP Address	<Projector IP address>
	MAC Address	<Projector MAC address>

7.1 E-mail Alerts (continued)

- 5) Click **[Alert Settings]** on the main menu to configure the E-mail Alerts settings.
- 6) Select and configure each alert item. Refer to item **3.1.6 Alert Settings** (31) for further information.
- 7) Click the **[Apply]** button to save the settings.

Failure/Warning e-mails are formatted as follows:

Subject line	:	<Mail title>	<Projector name>
Text	:	<Mail text>	
		Date	<Failure/Warning date>
		Time	<Failure/Warning time>
		IP Address	<Projector IP address>
		MAC Address	<Projector MAC address>

7.2 Projector Management using SNMP

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

NOTE • SNMP functions should be managed by a network administrator.
• SNMP management software must be installed on the computer to monitor the projector via SNMP.

SNMP Settings (📖23)

Configure the following items from a web browser to use SNMP.

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 **[Download MIB file]** to download a MIB file.

NOTE • To use the downloaded MIB file, specify the file by your SNMP manager.

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

NOTE • A Network Restart is required after the **SNMP Port** configuration settings have been changed. Click **[Network Restart]** on the main menu and click the **[Restart]** button. Then configure the following items.

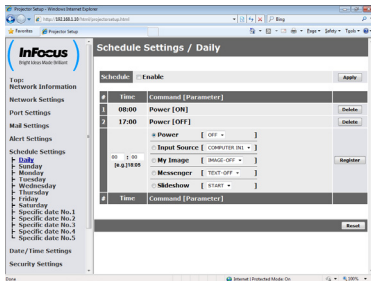
- 6) Click the **[Security Settings]** on the main menu.
- 7) Click the **[SNMP]** and set the community name on the screen that is displayed.

NOTE • A Network Restart is required after the **Community name** has been changed. Click **[Network Restart]** on the main menu and click the **[Restart]** button. Then configure the following items.

- 8) Configure the settings for Trap transmission of Failures/Warnings. Click the **[Alert Settings]** on the main menu and select the Failure/Warning item to be configured.
- 9) 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.
- 10) Click the **[Apply]** button to save the settings.

7.3 Event Scheduling

The scheduling function enables to set up scheduled events including power on / power off. It helps the projector become "self-managed".



NOTE • You can schedule the following types of events: Power, Input Source, My Image, Messenger, Slideshow. (📖28)

- The power on event has the lowest priority among the all events that are defined simultaneously.

- There are 3 types of Scheduling, 1) daily 2) weekly 3) specific date. (📖27)

- The priority for scheduled events is as follows 1) specific date 2) weekly 3) daily.

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

- Be sure to set the date and time before enabling scheduled events. (📖30)

Once you turn off the projector in the SAVING mode (📖SETUP menu in the **Operating Guide**) or the AC power, the current date and time setting is reset.

7.3 Event Scheduling(continued)

Schedule Settings (📖27)

Schedule settings can be configured from a web browser.

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 **[Schedule Settings]** on the main menu and select the required schedule item. For example, if you want the command to be completed every Sunday, select the **[Sunday]**.
- 4) Click the **[Enable]** check box to enable scheduling.
- 5) Enter the date (month/day) to schedule a specific date.
- 6) Click the **[Apply]** button to save the settings.
- 7) After configuring the time, command and parameters, click **[Register]** to add the new event.
- 8) Click the **[Delete]** button when you want to delete a schedule.

There are three types of scheduling.

- 1) Daily: Performs the specified operation at a specified time every day.
- 2) Sunday ~ Saturday: Performs the specified operation at the specified time on a specified day of the week.
- 3) Specific date: Performs the specified operation on the specified date and time.

NOTE • In standby mode, the **POWER** indicator will flash green for approx. 3 seconds when at least 1 “Power ON” schedule is saved.
• When the schedule function is used, the power cord must be connected to the projector and the outlet. The schedule function does not work when the breaker in a room is tripped. The power indicator lights orange or green when the projector is receiving AC power.

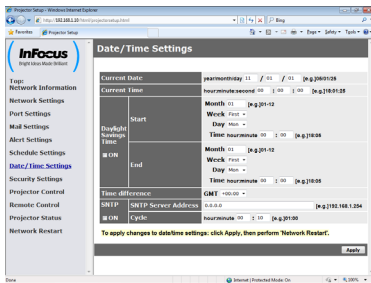
7.3 Event Scheduling(continued)

Date/Time Settings (📖30)

The Date/Time setting can be adjusted from a web browser.

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 **[Date/Time Settings]** on the main menu and configure each item. Refer to item **3.1.8 Date/Time Settings (📖30)** for further information.
- 4) Click the **[Apply]** button to save the settings.



NOTE • The internal clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time (📖31).

- Once the AC power is turned off or the projector goes into SAVING mode (📖SETUP menu in the **Operating Guide**), the current date and time setting is reset.

7.4 Command Control via the Network

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

Communication Port

Port no. 23 (TCP #23) is assigned for command and control.

Command Format

You can use RS-232 commands without any changes. ([📖 RS-232 Communication in the Operating Guide - Technical](#))

Automatic Connection Break

The TCP connection will be automatically disconnected after 30 seconds of inactivity.

7.5 Crestron RoomView®

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

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

URL: <http://www.crestron.com> (as of May 2012)


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

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

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

URL: <http://www.crestron.com/getroomview> (as of May 2012)

- 2) Crestron e-Control®

Crestron e-Control® is a system controller that can be operated from a web browser (42).

8. Troubleshooting

Problem	Likely Cause	Things to Check	Reference Page Number
Can't communicate	Weak radio signal	<ul style="list-style-type: none"> • Bring the computer and projector closer together. • Radio waves won't go through concrete and metal (steel doors, etc.) 	–
	Cannot communicate due to wireless / encryption configuration settings.	If there is a wireless configuration utility loaded on your computer, check its settings. Refer the manual of your configuration utility.	–
	The computer and/or projector's network settings are not configured correctly.	Check the network configurations of the computer and projector.	–
	The same network address is being used for both wireless and wired LAN.	Change the network address settings for wireless or wired LAN.	20, 21
	<Only for wireless LAN> The USB wireless adapter is not inserted into the projector.	Insert the optional USB wireless adapter.	–
	<Only for wireless LAN> There is another projector or device close by that has the same wireless setting.	Try changing of SSID and IP Address.	20
Others - Information from the projector to computer is not correct or complete - The projector does not respond	<p>Communication between the projector and computer is not working well.</p> <p>Projector's network functions are not working well.</p>	Try "NETWORK RESTART" in SERVICE menu under the NETWORK menu.	In the Operating Guide

9. Specifications

Item	Specifications
Control software	Dedicated computer application and Web browser
Corresponding protocol	TCP/IP, DHCP client and HTTP server
Network	Wireless LAN (IEEE802.11b/g/n) (Ad-Hoc and Infrastructure modes) Wired LAN(100Base-TX/10Base-T)
Security	WEP (64/128bit), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES), SSID
Computer application's system requirements	OS: Windows® XP Home Windows® XP Professional Windows Vista® Home Basic Windows Vista® Home Premium Windows Vista® Business Windows Vista® Ultimate Windows Vista® Enterprise Windows® 7 Starter Windows® 7 Home Basic Windows® 7 Home Premium Windows® 7 Professional Windows® 7 Ultimate Windows® 7 Enterprise CPU: Pentium 4 (2.8 GHz or higher) Graphic card: 16 bit, XGA or higher Memory: 512 MB or higher Hard disk space: 100 MB or higher Web browser: Internet Explorer® 6.0 or higher CD-ROM/DVD-ROM drive
USB wireless adapter	Gemtek USB-Link11n

10. Warranty and after-sales service

10. Warranty and after-sales service

If a problem occurs with the equipment, read the **8. Troubleshooting** (📖64) section first and review all suggestions. If you still have a problem after that, contact your dealer or service company. They will tell you what your projector's warranty status is.