

Projector 8111H User's Manual (detailed) Network Guide



Thank you for purchasing this projector.

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

✓ Web control

The projector can be controlled and monitored by a web browser software on your computer, which can help you to setup and maintain the projector.

✓ MY IMAGE (Still Image Transfer) Display The projector can display still images that are transferred via the network.

✓ Messenger Function

The projector can display the text data transferred via the network on the screen.

This manual is only intended to explain Network function only.

For safety, operations or any other issues, refer to the Safety Guide and User's Manual (concise and detailed).

▲ **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.

NOTE • The information in this manual is subject to change without notice.
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403-8111H-N-00 Technical

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1. Main functions

1.1 Configuring and controlling via a web browser

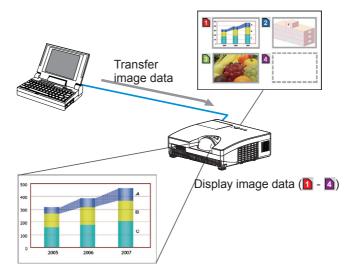
You can adjust or control the projector via a network from a web browser on a computer that is connected to the same network.

Logon the network from the web browser and it offers the menus to configure the network settings, monitor the projector and so on.

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🚖 🔅 🏀 Projector Setup		💁 • 🖾 · 🖶 • 🕞 Bage • 🕜 Tgole • 🎽
Projector Setup	Top:Network Information	-
Logoff	Projector Name Projector-1 DHCP ON	
Тор:	IP Address 192.168.1.10	
Network Information	Subnet Mask 255.255.255.0	
	Default Gateway 192.168.1.1	
Network Settings	MAC Address 0000872E956D	
Port Settings	Firmware Date 2009/03/11	
Mail Settings	Firmware Version 4.11	
Alert Settings		
Schedule Settings		
Date/Time Settings		
Security Settings		
Projector Control		
Projector Status		
Network Restart		
	20	
Dane		😝 Internet 🔍 100% •

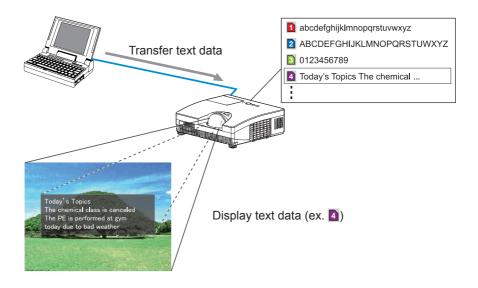
1.2 MY IMAGE (Still image Transfer) Display

Image files can be sent via the network, and up to 4 image data can be stored in the projector and displayed on screen one by one. ($\square 40$)



1.3 Messenger Function

The text data can be sent via the network and displayed on the screen. You can display the transferred text on real time or choose one from ones once stored in the projector and display it. (**Q42**)



2. Equipment connection and network setting

2.1 Required equipment preparation

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

Computer : 1) equipped with the network feature 2) installed a web browser software (**11**2)

LAN cable : CAT-5 or greater

NOTE • The system for using the network function of the projector requires communication environment conforming 100Base-TX or 10Base-T.
The network communication control is disabled while the projector is in standby

• The network communication control is disabled while the projector is in standby mode if the STANBY MODE item is set to SAVING. Please connect the network communication to the projector after setting the STANDBY MODE to NORMAL. (I SETUP menu in the User's Manual – Operating Guide)

2.2 Manual network connection setting

2.2.1 Equipments connection

Connect the projector and computer with a LAN cable.

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

Next, please check the computer setting as explained below.

2.2.2 Network settings

This is the explanation of network connection settings for Windows[®] XP and Internet Explorer[®].

1) Log on to Windows® XP as administrator authority. (*)

2) Open "Control Panel" from "Start" menu.

3) Open "Network and Internet Connections" in "Control Panel". (Fig. 2.2.2.a)

* Administrator authority is the account, which can access to all functions.

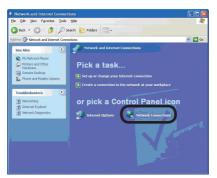


Fig. 2.2.2.a "Network and Internet Connections" window

4) Open "Network Connections". (Fig.2.2.2.b)



Fig. 2.2.2.b "Network Connections" window

5) Open "Local Area Connection Properties" window you use for network device. (Fig. 2.2.2.c)

General	
aerierai	Authentication Advanced
Connec	t using:
HB (ntel(R) PR0/1000 MT Mobile Connection
-10	Configure
This c <u>o</u>	nnection uses the following items:
	Network Monitor Driver
1 30	AFGIS Protocol (IEEE 802 1x) v2.3.1.9
27	Internet Protocol (TCP/IP)
1000	
	nstall Uninstall Properties
Desc	iption
wide	mission Control Protocol/Internet Protocol. The default area network protocol that provides communication ss diverse interconnected networks.
	w icon in notification area when connected
🗹 Sho	

Fig. 2.2.2.c "Local Area Connection Properties" window

 Set used protocol as "TCP/IP" and open "Internet Protocol (TCP/IP) Properties" window.

	d automatically if your network supports red to ask your network administrator for
Obtain an IP address autor	natically
Use the following IP address	8
JP address:	192.168.1.50
Sybnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server address	automatically
OUse the following DNS serv	ver addresses:
Preferred DNS server:	
Alternate DNS server:	· · ·
	Advanced

Fig. 2.2.2.d "Internet Protocol (TCP/IP) Properties" window

7) Set IP address, subnet mask and default gateway for computer.

[About IP address] ■ Setting manually

The Network address portion included in the IP address set into your computer should be common with projector's one. And the entire IP address in the computer should not be overlapped with other equipments in the same network, including the projector.

For example

The projector's initial settings are as follows.

IP address: 192.168.1.10 Subnet mask: 255.255.255.0 (Network address: 192.168.1 in this case)

Therefore, specify 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 from 1 to 254 for "xxx" not duplicating with any other equipments. In this case, projector has "192.168.1.10" IP address, specify from 1 to 254 except 10 for 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 via a web browser. (

• If the projector and computer exist in the same network (i.e. network address is common), default gateway can be blank.

• When the projector and computer exist in different networks, default gateway setting is necessary. Contact the network administrator in detail.

Setting automatically

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

* DHCP is abbreviation for "Dynamic Host Configuration Protocol" and has the function to provide necessary setting for network like IP address from server to client. A server that has DHCP function is called DHCP server.

2.2.3 "Internet Option" setting

1) Click "Internet Options" in "Network and Internet Connections" window (Fig. 2.2.3.a) to open "Internet Properties" window. (Fig.2.2.3.b)

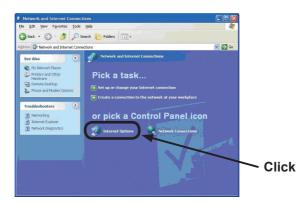


Fig. 2.2.3.a "Network and Internet Connections" window

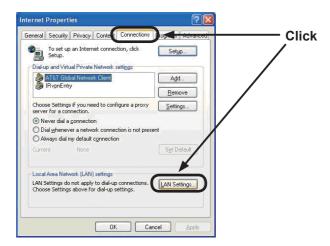


Fig. 2.2.3.b "Internet Properties" window

2) Click "Connections" tab and then click [LAN Settings] button to open "Local Area Network (LAN) settings". (Fig. 2.2.3.c)

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	ally detect set		made con	ngaracio	
U e autor	natic configura	tion <u>s</u> crip	e.		
Add <u>r</u> ess					
Prox server					
	xy server for y VPN connectio		(These s	ettings w	ill not apply to
Address:	gw.yokohar	na.hit	Por <u>t</u> : 8	080	Advanged
Bypas	s proxy server	for local	address	35	

Fig. 2.2.3.c "Local Area Network (LAN) Settings" window

3) Uncheck all boxes in "Local Area Network (LAN) Settings" window. (Fig. 2.2.3.c)

2.2.4 Check connection

Check computer and projector are connected properly here. If it is not connected, check cable connections and settings are properly or not.

1) Start browser in computer and specify following URL, then click "→" button.

URL: http://(Projector IP address)/

For example, if projector IP address is 192.168.1.10, specify

URL: http://192.168.1.10/

2) If Fig. 2.2.4 appears, it succeeds.

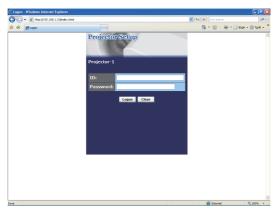


Fig. 2.2.4 "Logon Menu"

3. Network Functions

This projector is equipped with the following network functions by using a web browser software.

3.1 Configuring and Controlling the Projector via a Web Browser

You can change the settings of or control the projector via a network by using a web browser from a computer that is connected to the same network. $(\square 12)$

3.2 E-mail Alerts

The projector can automatically send an alert to specified e-mail addresses when the projector requires maintenance or has encountered an error. (**13**4)

3.3 Projector Management using SNMP

This projector is SNMP (Simple Network Management Protocol) compliant, allowing you to monitor it from a remote location using SNMP software. In addition, the projector is able to send failure & warning alerts to a specified computer.

(🛄 36)

3.4 Event Scheduling

You can schedule the projector to perform various functions according to the date and time.

(🛄 37)

3.5 MY IMAGE (Still Image Transfer) Display

The projector can display still images that are transferred via the network. $(\Box 40)$

3.6 Messenger Function

The projector can display the text data transferred via the network on the screen. $(\square 42)$

3.7 Command Control via the Network

The projector can be controlled using RS-232C commands over a network. ($\square 44$)

3.8 Controlling the external device via the projector (using the NETWORK BRIDGE function)

Using the NETWORK BRIDGE function can control an external device as a network terminal, via this projector from the computer. (**149**)

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[®] 5.5 or later is required.

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

• It is recommended that all web browser updates are installed.

When configuring or controlling the projector via a web browser, an ID and password are required. There are two types of IDs, Administrator ID and User ID. The following chart describes the differences between Administrator and User IDs.

Item	Description	Administrator	User
Network Information	Displays the projector's current network configuration settings.	\checkmark	\checkmark
Network Settings	Displays and configures network settings.	\checkmark	N/A
Port Settings	Displays and configures communication port settings.	\checkmark	N/A
Mail Settings	Displays and configures e-mail addressing settings.	\checkmark	N/A
Alert Settings	Displays and configures failure & warning alerts.	\checkmark	N/A
Schedule Settings	Displays and configures schedule settings.	\checkmark	N/A
Date/Time Settings	Displays and configures the date and time settings.	\checkmark	N/A
Security Settings	Displays and configures passwords and other security settings.	\checkmark	N/A
Projector Control	Controls the projector.	\checkmark	
Projector Status	Displays the current projector status.	\checkmark	
Network Restart	Restarts the projector's network connection.		N/A

3.1.1 Logon

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

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 "Enter" key or click "→" button. The screen in Fig. 3.1.1a will be displayed.
- 2) Enter your ID and password and click **[Logon]**.





Below are the factory default settings for Administrator ID, User ID and passwords.

Item	ID	Password	
Administrator	Administrator	<blank></blank>	
User	User	<blank></blank>	

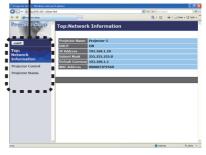
If the logon i	s successful,	either the	Fig. 3.1.1	b or Fig.	3.1.1	c screen	will be
displayed.							





Fig. 3.1.1 b "Logon with Administrator ID"

Main menu





3) Click the desired operation or configuration item on the main menu located on the left-hand side of the screen.

3.1.2 Network Information



All screen drawings in this manual are shown when you logon with the Administrator ID. Any functions that are available only for the Administrator will not be shown when you logon with the User ID. Refer to the table. ($\square 13, 14$)

Displays the projector's current network configuration settings.

Item	Description
Projector Name	Displays the projector name settings.
DHCP	Displays the DHCP configuration settings.
IP Address	Displays the current IP address.
Subnet Mask	Displays the subnet mask.
Default Gateway	Displays the default gateway.
MAC Address	Displays the ethernet MAC address.
Firmware Date	Displays the network firmware time stamp. This information is only displayed when logged on using an Administrator ID.
Firmware Version	Displays the network firmware version number. This information is only displayed when logged on using an Administrator ID.

3.1.3 Network Settings

Projector Schap - Windows Inter MacDia - MacDia 198.11940			8	to a local	- E (C)
🛊 🏟 👹 Malandar Sela				A + □ + ⊕ + ⊙ +	nge = 🔘 Task =
Projector Setup	Network Setti	ngs			
Logoff		O DHCP ON			
		O DHCP OFF			
Top: Network	IP Configuration		192.168.1.10	[4.9.] 192.168.1.264	
Information		Subnet Mask		[e.g.] 255.255.255.0	
Network Settings		Default Gateway	0.0.0.0	[0.0] 192.168.1.1	
	Projector Name	Projector-1			
ort Settings	sysLocation (SNMP)				
Aail Settings	sysContact (SNMP)				
Vert Settings	DNS Server Address	0.0.00			
schedule Settings	AMX D. D.	CPT V			
Date/Time Settings Security Settings	To apply changes to ne	twork settings: click	Apply, then perfo	rm 'Network Restart'.	
Projector Control					Apply
Projector Status					
rejector status					
letwork Restart					
				😝 bianel	\$100% -

Displays and configures network settings.

		Item	Description
IP	Соі	nfiguration	Configures network settings.
DHCP ON		ICP ON	Enables DHCP.
DHCP OFF		ICP OFF	Disables DHCP.
		IP Address	Configures the IP address when DHCP is disabled.
		Subnet Mask	Configures the subnet mask when DHCP is disabled.
		Default Gateway	Configures the default gateway when DHCP is disabled.
Projector Name		ctor Name	Configures the name of the projector. The length of the Projector Name can be up to 64 alphanumeric characters. Only alphabets, numbers and following symbols can be used. !"#\$%&'()*+,/:;<=>?@[\]^_`{ }~ and space
sy	sysLocation (SNMP)		Configures the location to be referred to when using SNMP. The length of the sysLocation can be up to 255 alphanumeric characters. Only numbers '0-9' and alphabet 'a-z', 'A-Z' can be used.
sysContact (SNMP)		ontact (SNMP)	Configures the contact information to be referred to when using SNMP. The length of the sysContact can be up to 255 alphanumeric characters. Only numbers '0-9' and alphabet 'a-z', 'A-Z' can be used.
DN	IS S	Server Address	Configures the DNS server address.
1		D.D. Device Discovery)	Configures the AMX Device Discovery setting to detect the projector from the controllers of AMX connected to the same network. For the details of AMX Device Discovery, visit the AMX web site. <u>URL: http://www.amx.com</u>

Click [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 by clicking **[Network Restart]** on the main menu.

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

3.1.4 Port Settings

Projector Schap Windows Inte	net Explorer		
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🕈 🏘 💋 Prosidiar Silitia		A + □ - ⊕ + ⊙	bar - 🛈 tak - '
Projector Setup	Port Settings		
	Network Control Port1 (Port:23)		
Logoff	Port open E Enable		
Top:	Authentication Enable		
Network Information	Network Control Port2 (Port:9715)		
etwork Settings	Port open Enable		
Port Settings	Authentication CEnable		
Aail Settings	PJLink Port (Port:4352)		
Vert Settings	Port open Enable		
ichedule Settings	Authentication @Enable		
Date/Time Settings Security Settings	Image Transfer Port (Port:9716)		
Projector Control	Port open Cinable		
Projector Status	Authentication @Enable		
Network Restart	Text Transfer Port (Port:9719)		
	Port open CEnable		
	Authentication Cable		
		😧 Stanet	\$ 100% -

Displays and configures communication port settings.

	Item	Description
Network Control Port1 (Port:23)		Configures command control port 1 (Port:23).
	Port open	Click the [Enable] check box to use port 23.
	Authentication	Click the [Enable] check box when authentication is required for this port.
1	twork Control Port2 ort:9715)	Configures command control port 2 (Port:9715).
	Port open	Click the [Enable] check box to use port 9715.
	Authentication	Click the [Enable] check box when authentication is required for this port.
1	Link [™] Port ort:4352)	Configures the PJLink [™] port (Port:4352).
	Port open	Click the [Enable] check box to use port 4352.
	Authentication	Click the [Enable] check box when authentication is required for this port.
1	age Transfer Port ort:9716)	Configures the image transfer 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.
1	xt Transfer Port ort:9719)	Configures the text transfer 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.

	ltem	Description
SN	IMP 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 not only IP address but also domain name if the valid DNS server is setup in the Network Settings . The maximum length of host or domain name is up to 255 characters.
SN	ITP Port	Configures the SMTP port.
	Port open	Click the [Enable] check box to use the e-mail function.
Ne	twork Bridge Port	Configures the Bridge port number.
	Port Number	Input the port number. Except for 9715, 9716, 9719, 4352 between 1024 and 65535 can be set up. It is set to 9717 as the default setting.

Click [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 by clicking **[Network Restart]** on the main menu.

3.1.5 Mail Settings

Projector Settag - Windows Intern		K A K Larbert
· ·		5 + 10 - + tour - O tak -
rojector Setup	Mail Settings	
Legoff	Send mail Enable SMTP Server Address 0.0.00	[4.g.] 192.160.1.254
op: letwork nformation	Sender E-mail address	
letwork Settings	⊂to ⊂cc	
ort Settings	⊂to ⊙cc	
tail Settings	Recipient E-mail address Oto Occ	
lert Settings	C to © cc	
chedule Settings	⊖to ⊙cc	
late/Time Settings	Seed Test Hall	
ecurity Settings		
rojector Control		Apply Reset
rojector Status		
letwork Restart		

Displays and configures e-mail addressing settings.

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

Click [Apply] button to save the settings.

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

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

3.1.6 Alert Settings



Displays and configures failure & alert settings.

Alert 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	Other error. If displaying this error, please contact your dealer.
Schedule Execution Error	Schedule Execution error. (22)
Lamp Time Alarm	Lamp time over Alarm Time setting.
Filter Time Alarm	Filter time over Alarm Time setting.
Transition Detector Alarm	Transition Detector Alarm. (DOPTION menu in the User's Manual – Operating Guide)
Cold Start	 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 (the lamp is turned on). (I) SETUP menu in the User's Manual – Operating Guide)
Authentication Failure	The SNMP access is detected from the invalid SNMP community.

Refer to **"***Troubleshooting" in the User's Manual – Operating Guide* for further detailed explanation of Error except Other Error and Schedule Execution Error.

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

The Alert Items are shown below.

Click [Apply] button to save the settings.

NOTE • The trigger of **Filter Error** e-mail is depending 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. The e-mail will be sent when the filter time exceeds 500, 1000, 2000, 3000, 4000 or 5000 hours based on the configuration. No notification e-mail will be sent if the FILTER MESSAGE is set to OFF. (**OPTION menu in the User's Manual – Operating Guide**)

• Lamp Time Alarm is defined as a threshold for e-mail notification (reminder) of the lamp time. When the lamp hour exceeds this threshold that is configured through the Web page, the e-mail will be sent out.

• **Filter Time Alarm** is defined as a threshold for e-mail notification (reminder) of the filter time. When the filter hour exceeds this threshold configured in the web page, e-mail will be sent out.

3.1.7 Schedule Settings

Projector Setag - Windows Inter		- 19 - E
A Ministration		A + D top - O tok -
Projector Setup	Schedule Settings / Daily	
Logoff	Schedule Enable	Apply
rop: Network Information	# Time Command [Parameter] 1 08:00 Power [ON]	Delete
fetwork Settings	2 17:00 Power [Off]	Delete
Port Settings Mail Settings Mert Settings Schedule Settings	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00<	Register
- Daily - Sunday - Monday	# Time Command [Parameter]	
- Tuesday - Wednesday - Thursday - Triday - Saturday - Specific date No.1 - Specific date No.2 - Specific date No.2		Brot
Considir data Mo.4	E Direct	5,1275

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.

The schedule settings are shown below.

Item	Description
Schedule	Click [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 [Apply] button to save the settings.

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

Item		Description
Tir	ne	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.
	Display Image	Configures the parameters for display of transfered image data. (14 0)
	Display Text	Configures the parameters for display of transferred text data. (442)

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

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

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

NOTE • After the projector is moved, check the date and time set for the projector before configuring the schedules. Strong shock may make the date and time settings ($\square 24$) get out of tune.

• Events of "Display Image" and "Display Text" will not start appropriately and schedule execution error occurs if the lamp does not light and/or display data is not stored in the projector at the scheduled event execution time.

• Events of "Input Source" and "Display Image" will not start if the security feature is activated and limits the use of the projector.

• Certain errors of the projector (such as temperature error, lamp error) prevent the projector from appropriate execution of scheduled functions/events.

• Please refer to the Troubleshooting in the User's Manual - Operating Guide in case scheduled functions/events are not executed appropriately as you've set.

3.1.8 Date/Time Settings



Displays and configures the date and time settings.

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

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

Click [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 by clicking **[Network Restart]** on the main menu.

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

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

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

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

3.1.9 Security Settings



Displays and configures passwords and other security settings.

Item		Description	
Administrator authority		Configures the Administrator ID and password.	
	Administrator ID	Configures the Administrator ID. The length of the text can be up to 32 alphanumeric characters.	
		Configures the Administrator password. The length of the text can be up to 255 alphanumeric characters.	
	Re-enter Administrator Password	Reenter the above password for verification.	
Us	er authority	Configures the User ID and password.	
	User ID	Configures the User ID. The length of the text can be up to 32 alphanumeric characters.	
	User Password	Configures the User password. The length of the text can be up to 255 alphanumeric characters.	
	Re-enter User Password	Reenter the above password for verification.	

Item		Description	
Network Control		Configures the Authentication password for the command control.	
		Configures the Authentication password. The length of the text can be up to 32 alphanumeric characters.	
	Re-enter Authentication Password	Reenter the above password for verification.	
SN	IMP	Configures the community name if SNMP is used.	
	Community name	Configures the community name. The length of the text can be up to 64 alphanumeric characters.	

Click [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 by clicking **[Network Restart]** on the main menu.

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

3.1.10 Projector Control



The items shown in the table below can be performed using the Projector Control menu. Select an item using the up and down arrow keys on the computer.

Most of the items have a submenu. Refer to the table below for details.

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

Controls the projector.

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 Blank on/off.	
Mute	Turns Mute on/off.	
Freeze	Turns Freeze on/off.	
Magnify	Controls the magnify setting. In some input signal sources, it might stop "Magnify" even though it does not reach to maximum setting value.	
Magnify Position V	Adjusts the position of vertically magnifying startpoint.	
Magnify Position H	Adjusts the position of horizontally magnifying startpoint.	
Template	Turns template on/off.	
My Image	Select MY IMAGE data.	
My Image Delete	Delete MY IMAGE data.	
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.	
My Memory Save Saves the My Memory data.		
My Memory Recall Recalls the My Memory data.		

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Item	Description		
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	Performs the automatic adjustment.		
Input			
Progressive	Selects the progressive setting.		
Video NR	Selects the video noise reduction setting.		
Color Space	Selects the color space.		
S-Video Format	Selects the s-video format setting.		
C-Video Format	Selects the video format setting.		
HDMI Format	Selects the HDMI format setting.		
HDMI Range	Selects the HDMI range setting.		
Computer in1	Selects the COMPUTER IN1 input signal type.		
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	Turns the FRAME LOCK-HDMI function on/off.		
Setup			
D-Zoom	Adjusts the zoom.		
D-SHIFT V	Adjusts the vertical picture position.		
D-SHIFT H	Adjusts the horizontal picture position.		
Pict. Posit. H	Selects the horizontal picture position.		
Keystone V	Adjusts the vertical keystone distortion setting.		
Eco Mode	Selects the eco mode.		
Mirror	Selects the mirror status.		
Standby Mode	Selects the Standby mode.		
Monitor Out -	Assigns the MONITOR OUT when the COMPUTER IN1 input		
Computer in1	port is selected.		
Monitor Out -	Assigns the MONITOR OUT when the COMPUTER IN2 input		
Computer in2	port is selected.		
Monitor Out - HDMI	Assigns the MONITOR OUT when the HDMI input port is selected.		
Monitor Out - S-Video	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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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 - HDMI	Assigns the AUDIO SOURCE-HDMI 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 Out Standby	Assigns the AUDIO OUT in the standby mode.		
HDMI Audio	Selects the HDMI audio setting.		
Screen			
Language	Selects the language for the OSD.		
Menu Position V	Adjusts the vertical Menu position.		
Menu Position H	Adjusts the horizontal Menu position.		
Blank	Selects the Blank mode.		
Startup	Selects the startup 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.			

Item		Description	
Op	otion		
	Auto Search	Turns the automatic signal search function on/off.	
Direct Power On Turns the direct power on function on/off.		Turns the direct power on function on/off.	
Auto Power Off Configures the timer to shut off the projector will detected.		Configures the timer to shut off the projector when no signal is detected.	
	My Button-1	Assigns the functions for the MY BUTTON1 button on the included remote control.	
My Button-2 Assigns the functions for the MY I included remote control.		Assigns the functions for the MY BUTTON2 button on the included remote control.	
	My Source	Selects the My Source setting.	
Normal on/off.		Turns the remote control signal frequency nomal function on/off.	
		Turns the remote control signal frequency high function on/off.	

3.1.11 Projector Status



Displays the current projector status.

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

3.1.12 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 via a web browser. Wait 1 minute or more after clicking **[Restart]** button to log on again.

3.1.13 Logoff

When [Logoff] is clicked, the Logon menu is displayed. (414)

3.2 E-mail Alerts

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

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

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

Mail Settings (19)

To use the projector's e-mail alert function, please 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.
- 2) Enter the Administrator ID and password and click [Logon].
- 3) Click [Port Settings] on the main menu.
- 4) Click [Enable] check box to open the SMTP Port.
- 5) Click [Apply] button to save the settings.

NOTE • A Network Restart is required after the **SMTP Port** configuration settings have changed. Click **[Network Restart]** and configure the following items.

- 6) Click [Mail Settings] and configure each item. Refer to the item 3.1.5 Mail Settings (119) for further information.
- 7) Click [Apply] button to save the settings.

NOTE • Click **[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=""></projector>
Text	:Send Test Mail	
	Date	<testing date=""></testing>
	Time	<testing time=""></testing>
	IP Address	<projector address="" ip=""></projector>
	MAC Address	<projector address="" mac=""></projector>

3.2 E-mail Alerts (continued)

- 8) Click [Alert Settings] on the main menu to configure the E-mail Alerts settings.
- 9) Select and configure each alert item. Refer to the item **3.1.6 Alert Settings** (**12**0) for further information.
- 10) Click [Apply] button to save the settings.

Failure/Warning e-mails are formatted as follows:

Subject line Text	: <mail title=""> : <mail text=""></mail></mail>	<projector name=""></projector>
	Date Time IP Address MAC Address	<failure date="" warning=""> <failure time="" warning=""> <projector address="" ip=""> <projector address="" mac=""></projector></projector></failure></failure>

3.3 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.

NOTE • It is recommended that SNMP functions be carried out by a network administrator.

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

SNMP Settings (17)

Configure the following items via 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.
- 2) Enter the Administrator ID and Password and click [Logon].
- 3) Click [Port Settings] on the main menu.
- 4) Click **[Enable]** check box to open the **SNMP Port**. Set the IP address to send the SNMP trap to when a Failure/Warning occurs.

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

- 5) Click [Security Settings] on the main menu.
- 6) Click [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]** and configure the following items.

- Configure the settings for Trap transmission of Failures/Warnings. Click [Alert Settings] on the main menu and select the Failure/Warning item to be configured.
- 8) Click **[Enable]** check box to send out the SNMP trap for Failures/Warnings. Clear **[Enable]** check box when SNMP trap transmission is not required.
- 9) Click [Apply] button to save the settings.

3.4 Event Scheduling

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



NOTE • You can schedule the following control events: Power ON/OFF, Input Source, Transferred Image Display and Transferred Text Display.

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

• There are 3 types of Scheduling, 1) daily 2) weekly 3) specific date. (422)

• 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. (424)

3.4 Event Scheduling (continued)

Schedule Settings (^[]22)

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

There are three types of scheduling.

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

3.4 Event Scheduling (continued)

Date/Time Settings (124)

The Date/Time setting can be adjusted via 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. Enter the Administrator ID and Password and click [Logon].
- Click [Date/Time Settings] on the main menu and configure each item. Refer to the item 3.1.8 Data/Time Settings for further information.
- 3) Click [Apply] button to save the settings.



NOTE • A Network Restart is required after the **Daylight Savings Time** or **SNTP** configuration settings have been changed.

• The battery for the built in clock may be dead if the clock loses time even when the date and time have been set correctly. Replace the battery by following *"Replacing the internal clock battery" section of the User's Manual (concise)*.

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

3.5 MY IMAGE (Still Image Transfer) Display

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

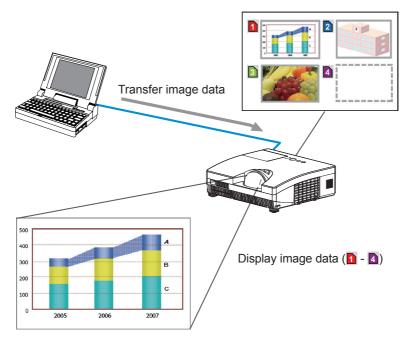


Fig. 3.5 Still Image Transfer

MY IMAGE transmission requires an exclusive application for your computer. You can download it from the Hitachi web site (http://hitachi.us/digitalmedia or http://www.hitachidigitalmedia.com). Refer to the manual for the detailes and the application for instructions.

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. (*INETWORK menu in the User's Manual – Operating Guide*)

NOTE • It is possible to allocate the image file up to 4 in the maximum.
 Using MY BUTTON that registered MY IMAGE can display transferred image.
 (*DPTION menu in the User's Manual – Operating Guide*)
 The image file also can be displayed by using schedule function via the web

browser. Refer to the item "3.4 Event Scheduling (137)" for detail.

3.5 MY IMAGE (Still Image Transfer) Display (continued)

Configure the following items from a web browser when MY IMAGE is used.

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

- 1) Enter "http://192.168.1.10/" into the address bar of the web browser.
- 2) Enter the Administrator ID and password and click **[Logon]**.
- 3) Click [Port Settings] on the main menu.
- 4) Click the [Enable] check box to open the Image Transfer Port (Port: 9716). Click the [Enable] check box for the [Authentication] setting when authentication is required, otherwise clear the check box.

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

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

- 6) Click [Security Settings] on the main menu.
- 7) Select [Network Control] and enter the desired authentication password.
- 8) Click the [Apply] button to save the settings.

NOTE • The Authentication Password will be the same for Network Control Port1 (Port: 23), Network Control Port2 (Port: 9715), PJLink[™] Port (Port: 4352), Image Transfer Port (Port: 9716) and Text Transfer 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 by clicking [Network Restart] on the main menu.

3.6 Messenger Function

The projector can display the text data transferred via the network on the screen. The text data can be displayed on the screen in two ways that displays the text transferred from the computer on real time, and the other chooses and displays the text data from the ones once stored in the projector.

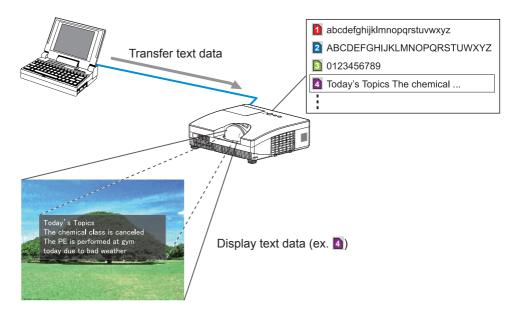


Fig. 3.6 Messenger function

Messenger function requires an exclusive application for your computer. To edit, transfer and display the text data, use the application. You can download it from the Hitachi web site (http://hitachi.us/digitalmedia or http://www.hitachidigitalmedia. com). Refer to the manual for the application for the details of Messenger function and instructions of the application.

NOTE • It is possible to store the text data up to 12 in the maximum. • Using **MY BUTTON** that registered MESSENGER can turn the displaying messenger text on/off. (*QPTION menu in the User's Manual – Operating Guide*)

• The text file also can be displayed by using schedule function via the web browser. Refer to the item "**3.4 Event Scheduling** (**137**)" for detail.

3.6 Messenger Function (continued)

Configure the following items from a web browser when Messenger function is used.

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

- 1) Enter "http://192.168.1.10/" into the address bar of the web browser.
- 2) Enter the Administrator ID and password and click **[Logon]**.
- 3) Click [Port Settings] on the main menu.
- 4) Click the [Enable] check box to open the Text Transfer Port (Port: 9719). Click the [Enable] check box for the [Authentication] setting when authentication is required, otherwise clear the check box.

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

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

- 6) Click [Security Settings] on the main menu.
- 7) Select [Network Control] and enter the desired authentication password.
- 8) Click the [Apply] button to save the settings.

NOTE • The Authentication Password will be the same for Network Control Port1 (Port: 23), Network Control Port2 (Port: 9715), PJLink[™] Port (Port: 4352), Image Transfer Port (Port: 9716) and Text Transfer 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 by clicking [Network Restart] on the main menu.

3.7 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 (17**)**

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

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

- 1) Enter "http://192.168.1.10/" into the address bar of the web browser.
- 2) Enter the Administrator ID and password and click [Logon].
- 3) Click [Port Settings] on the main menu.

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Projector Status	Authentication Enable		
Projector Status Network Restart	Text Transfer Port (Port:9719)		
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- 4) Click [Enable] check box to open Network Control Port1 (Port: 23) to use TCP #23. Click [Enable] check box for [Authentication] setting when authentication is required, otherwise clear the check box.
- 5) Click **[Enable]** check box to open **Network Control Port2 (Port: 9715)** to use TCP #9715. Click **[Enable]** check box for **[Authentication]** setting when authentication is required, otherwise clear the check box.
- 6) Click [Apply] button to save the settings.

When the authentication setting is enabled, the following settings are required. ($\square 26$)

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

NOTE • The Authentication Password will be the same for Network Control Port1 (Port: 23), Network Control Port2 (Port: 9715), PJLink™ Port (Port: 4352), Image Transfer Port (Port: 9716) and Text Transfer 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 by clicking [Network Restart] on the main menu.

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. (**##RS-232C Communication**" in the User's Manual – 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 (0x02), Data length (0x0D), Checksum (1 byte) and Connection ID (1 byte) of the RS-232C commands. (IIII: RS-232C Communication'' in the User's Manual – Operating Guide (Technical))

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

Reply Data format

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

<ACK reply>

Reply	Connection ID
0x06	1 byte

<NAK reply>

Reply	Connection ID
0x15	1 byte

<Error reply>

Reply	Error code	Connection ID
0x1C	2 bytes	1 byte

<Data reply>

Reply	Data	Connection ID
0x1D	2 bytes	1 byte

<Projector busy reply>

Reply	Status code	Connection ID
0x1F	2 bytes	1 byte

<Authentication error reply>

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

Automatic Connection Break

The TCP connection will be automatically disconnected after there is no communication for 30 seconds after being established.

Authentication

The projector does not accept commands without authentication success when authentication is enabled. The projector uses a challenge response type authentication with an MD5 (Message Digest 5) algorithm.

When the projector is using a LAN, a random 8 bytes will be returned if authentication is enabled. Bind this received 8 bytes and the Authentication Password and digest this data with the MD5 algorithm and add this in front of the commands to send.

Following is a sample if the Authentication Password is set to "password" and the random 8 bytes are "a572f60c".

- 1) Select the projector.
- 2) Receive the random 8 bytes "a572f60c" from the projector.
- 3) Bind the random 8 bytes "a572f60c" and the Authentication Password "password" and it becomes "a572f60cpassword".
- 4) Digest this bind "a572f60cpassword" with MD5 algorithm. It will be "e3d97429adffa11bce1f7275813d4bde".
- 5) Add this "e3d97429adffa11bce1f7275813d4bde" in front of the commands and send the data.

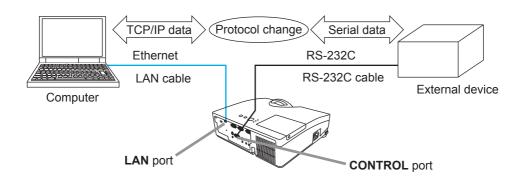
Send "e3d97429adffa11bce1f7275813d4bde"+command.

6) When the sending data is correct, the command will be performed and the reply data will be returned. Otherwise, an authentication error will be returned.

NOTE • As for the transmission of the second or subsequent commands, the authentication data can be omitted when the same connection.

3.8 Controlling the external device via the projector (using the NETWORK BRIDGE function)

This projector is equipped with the NETWORK BRIDGE function to perform mutual conversion of a network protocol and a serial interface. Using the NETWORK BRIDGE function, a computer that is connected with this projector by Ethernet communication can control an external device that is connected with this projector by RS-232C communication as a network terminal.



3.8.1 Connecting devices

- 1) Connect the projector's **LAN** port and the computer's LAN port with a LAN cable, for Ethernet communication.
- 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 User's Manual - Operating Guide (Technical)*)

3.8.2 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. (**OPTION menu - SERVICE - COMMUNICATION in the User's Manual - Operating Guide**)

- 1) Using the COMMUNICATION TYPE menu, select the NETWORK BRIDGE for the **CONTROL** port.
- Using the SERIAL SETTINGS menu, select the proper baud rate and parity for the CONTROL port, according to the specification of the RS-232C port of the connected device.

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

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

 $\ensuremath{\text{NOTE}}$ $\ensuremath{\cdot}$ The OFF is selected for the COMMUNICATION TYPE as the default setting.

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

• When COMMUNICATION TYPE is set to NETWORK BRIDGE, the **CONTROL** port doesn't accept RS-232C commands.

3.8.3 Communication port

For the NETWORK BRIDGE function, send the data from the computer to the projector with using the **Network Bridge Port** that is configured in the "Port Settings" of web browser. (**Q18**)

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

3.8.4 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 User's Manual - Operating Guide**)

 $\mathsf{HALF}\text{-}\mathsf{DUPLEX}\leftrightarrow\mathsf{FULL}\text{-}\mathsf{DUPLEX}$

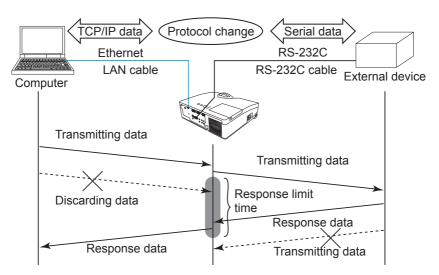
3.8.4.1 HALF-DUPLEX

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 and BYTES INTERVAL TIMEOUT, following the instruction below.



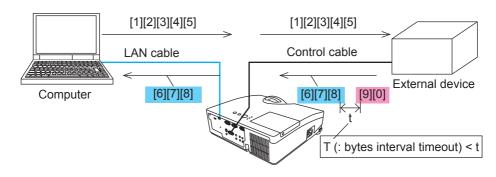
 Using the RESPONSE LIMIT TIME menu, set the waiting time for response data from an external device. (□OPTION menu - SERVICE -COMMUNICATION in the User's Manual - Operating Guide) OFF ↔ 1s ↔ 2s ↔ 3s (↔ OFF)

3.8.4.1 HALF-DUPLEX (continued)

2) If the response data from an external device is blank in a certain time period (BYTES INTERVAL TIMEOUT), the projector judges that the response data is finished, and starts to send data again.

If a blank time in the response data is longer than the BYTES INTERVAL TIMEOUT, the projector cannot receive all data, then the computer may not be able to control an external device well.

Using the BYTES INTERVAL TIMEOUT menu, set the waiting time for response data to match your system. (**DPTION menu - SERVICE - COMMUNICATION in the User's Manual - Operating Guide**)



50ms ↔ 100ms ↔ 150ms ↔ 200ms (↔ 50ms)

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

• 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.

3.8.4.2 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 requited to synchronize them, set the computer to make the synchronization.

NOTE • In case that the computer controls to synchronize transmitting and receiving the data, it may not be able to control an external device well depending on the processing status of the projector.



DUKANE CORP AV SERVICE DEPT

2900 Dukane Drive St Charles, IL 60174 800-676-2487 / 630-762-4032 Fax 630-584-5156 avservice@dukane.com www.dukane.com/av

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