

LiveViewer Application User's Manual

Hitachi Consumer Electronics Co., Ltd.

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Contents

1	Features.....	3
1.1	0BDisplay Mode.....	3
1.1.1	14BSingle PC mode	3
1.1.2	15BMulti PC mode.....	3
1.2	1BMulti Projector Mode	4
1.3	2BModerator Control Mode.....	4
2	Compatibility	5
2.1	3BHardware and software requirements for computer	5
2.2	4BSoftware versions.....	5
2.3	5BUpdating LiveViewer	6
3	Starting with LiveViewer.....	7
3.1	6BInstalling LiveViewer	7
3.2	7BConnecting to the network.....	10
3.2.1	16BLaunch LiveViewer	10
3.2.2	17BSelect Connection method	10
3.2.3	18BPasscode.....	14
3.2.4	19BConfigure Network Setting Manually	21
3.2.5	20BConnection and transmission.....	24
3.2.6	21BConnection error	25
3.3	8BStarting the Network Presentation.....	26
3.3.1	22BSetting the Live Mode (only for Projector Models Group: B, C).....	26
3.3.2	23BDisplay Mode.....	27
3.3.3	24BPresenter Mode	27
3.3.4	25BDisplay User Name.....	27
3.3.5	26BMulti Projector Mode	28
3.3.6	27BModerator Control Mode.....	28
4	LiveViewer Operation	29
4.1	9BMain menu and Operating buttons	29
4.1.1	28BMenu Type.....	29
4.1.2	29BOperating buttons.....	29
4.1.3	30BDisplaying the Status	31
4.1.4	31BSwitching the display mode.....	32
4.2	10BMulti Projector Control window.....	32
4.3	11BModerator Control window	33
4.4	Option menu	34
4.5	13BProfile data.....	36
4.5.1	32BOutline of Profile data	36
4.5.2	33BMaking Profile data	36
4.5.3	34BEditing Profile data.....	37
4.5.4	35BRegistering My Connection.....	37
	Appendix.....	38

1 Features

The LiveViewer software can translate images and audio from a computer to the projector via wireless LAN or wired LAN. This software has a variety of features that helps comfortable presentation and easy connection.

1.1 Display Mode

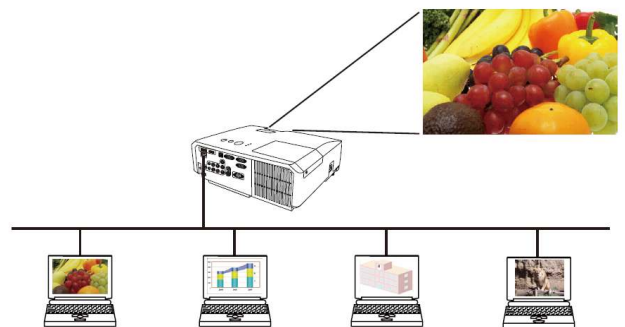
In LiveViewer, there are two display modes, Single PC mode and Multi PC mode.

1.1.1 Single PC mode

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

■ Presenter Mode

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

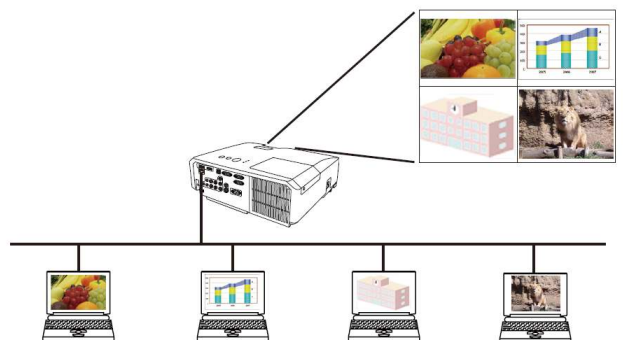


1.1.2 Multi PC mode

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

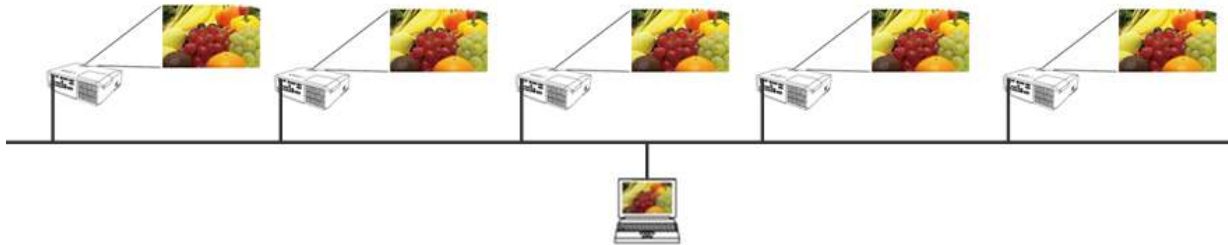
NOTE

- *Audio cannot be sent in the Multi PC mode.*



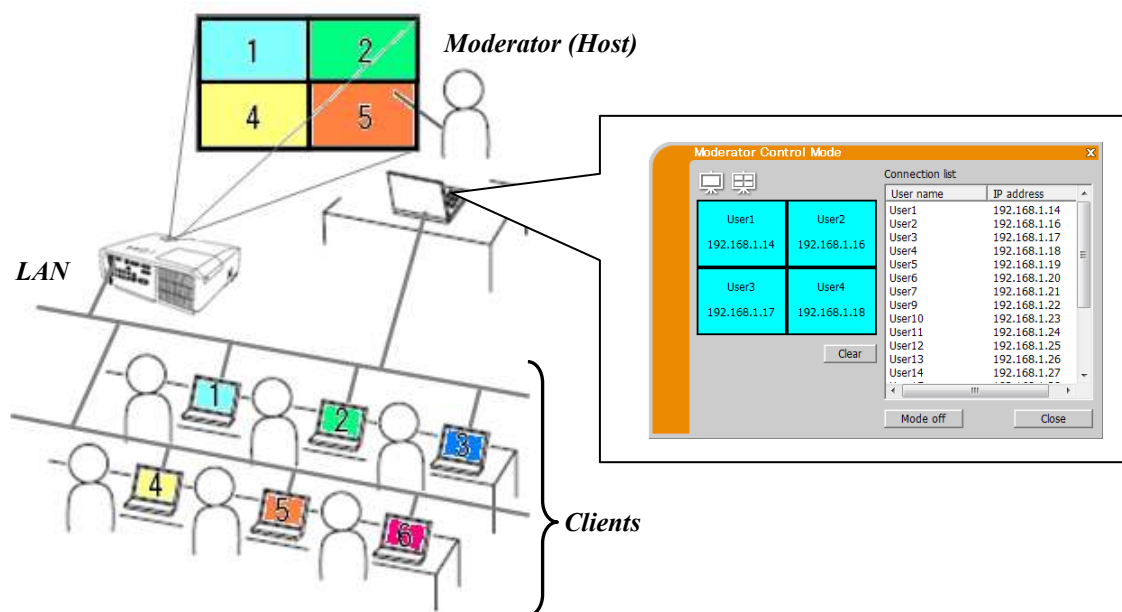
1.2 Multi Projector Mode

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



1.3 Moderator Control Mode

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



2 Compatibility

2.1 Hardware and software requirements for computer

OS	Windows® XP Windows Vista® (Service Pack 1 or later) Windows® 7	Home Edition / Professional Home Basic / Home Premium / Business / Enterprise / Ultimate Starter / Home Basic / Home Premium / Professional / Enterprise / Ultimate
Graphic card	VGA: 640x480 or higher (recommended XGA: 1024x768) 65,536 simultaneous colors or higher	
Hard disk space	100MB or higher	
Web browser	Internet Explorer® (6.0 or higher)	
CD-ROM/DVD-ROM drive		
Wireless	IEEE802.11b/g/n	

2.2 Software versions

Check and confirm before you install the LiveViewer if its version suits to the projector model you are going to connect to. The correct software version depends upon the projector model that you have. If the version is not matched with the projector, the software may not work properly.

If you use the models network functions are available not listed in the table below, check the group of projector models written in the **User's Manual** of the projector.

LiveViewer Version	Group of Projector Models				
	Group A	Group B	Group C	Group D	Group E
	CP-X267	CP-X268A CP-X608 CPX2	CP-X308 CP-X417 CP-X807 CPX4 CP-X809 CP-X467	CP-X2011N ED-X45N CP-X2511N CP-X3011N CP-X4011N CP-WX3011N CP-X4021N CP-WX4021N CP-X5021N CP-AW250N CP-A220N ED-A220N CP-A300N iPJ-AW250N and etc.	CP-X2514WN CP-X3014WN CP-X4014WN CP-WX3014WN CP-X2021WN CP-X2521WN CP-X3021WN CPX10WN CPX11WN CPWX12WN and etc.
2.01 ^{*1}	✓	-	-	-	-
2.1x ^{*1}	-	✓	-	-	-
2.2x ^{*1}	-	✓	-	-	-
3.xx ^{*1}	-	✓	✓	-	-
4.1x ^{*1}	-	✓	✓	✓	-
4.2x ^{*1}	-	✓	✓	✓	-
4.3x	-	✓ ^{*2}	✓ ^{*2}	✓	✓
5.xx	-	✓ ^{*2}	✓ ^{*2}	✓	✓

“x” in the version means 0 or greater.

^{*1} Only Windows® 32-bit version.

^{*2} Windows® 64-bit version cannot operate correctly.

NOTE for the computer


- *Improper OS version or driver software for network adapter on your computer may prevent images from being transmitted correctly. It is highly recommended that you check for OS and driver updates.*
- *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 you are using is equipped with built-in wireless LAN functionality. If communication problems occur, please use a Wi-Fi certified wireless network device.*
- *In case you use LiveViewer in Windows Vista® or Windows® 7, Aero® Glass cannot be used while the computer image is displayed to the projector.*
- *When installing LiveViewer in Windows Vista® or Windows® 7, the UAC (User Account Control) warning message is displayed.*
- *Your computer needs to meet the minimum hardware requirement of your OS.*
- *LiveViewer does not work on Windows Vista® that is not updated to Service Pack 1 or later. Please install the latest Service Pack on your Windows Vista®.*
- *Video transfer through network may not be supported depending on combination of computer hardware and software. In this case, video/computer cable is preferable.*

NOTE for the projector

◆ **Projector Models Group: B, C**

- *Set your computer's resolution to XGA or less. Refer to the user manual for your computer or Windows®.*
- *In some cases, your computer screen may not display correctly on the projector. If the computer's resolution is larger than 1024x768, the projector will only display the 1024x768 portion of the image.*
- *The Screen Image of Slide Show in Windows Vista® or Windows® 7 cannot be sent to the projector.*
- *Please uninstall LiveViewer first when you update Operating System. Then install LiveViewer again.*

◆ **Projector Models Group: D, E**

- *Set your computer's resolution to XGA or less. Refer to the user manual for your computer or Windows®. If it is larger than XGA, the transfer rate will be reduced.*
- *If you use a screen resolution greater than XGA, the projector will shrink it to XGA on screen.*
- *The network communication control is disabled while the projector is in standby mode if the STANDBY MODE item in the SETUP menu of the projector is set to SAVING. Please connect the network communication to the projector after setting the STANDBY MODE to NORMAL.*
- *You can get the latest version of the LiveViewer and the latest information for this product from our website ( below).*
- *Depending on the specification of your computer, the computer may slow down due to high CPU usage when the LiveViewer is running.*

2.3 Updating LiveViewer

Please check and get the latest version from the Hitachi Web site.

<http://www.hitachi-america.us/digitalmedia>

<http://www.hitachidigitalmedia.com>

<http://www.hitachi.com.cn>

Some functions explained in this manual require the LiveViewer Version 5.xx.

("x" in the version means 0 or greater.)

3 Starting with LiveViewer

This section explains the process of using LiveViewer. The outline of the process is as follows:

STEP 1. Install the LiveViewer application (📖 below)

STEP 2. Connect to the network (📖 10)

The Quick Connection feature prepares some options for connecting to the projector. You can select one that meets your requirements.

- Select From List
- Passcode connection
- Profile connection
- History connection
- Manual connection
- My Connection

In some cases, there are several projectors connected to the same network. Before you send your image, confirm that the right projector is selected.

STEP 3. Start Network Presentation (📖 26)

The LiveViewer main menu will be on screen. Now, you can send your images to the projector through the network.



Fig.3.a LiveViewer main menu

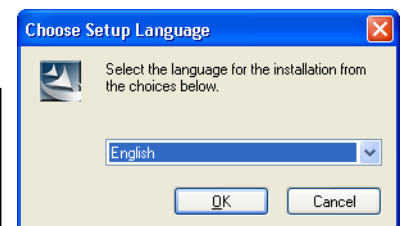
3.1 Installing LiveViewer

In order to use LiveViewer, you first need to install the software from the CD enclosed with the projector onto all computers that you want to connect to your network projector.

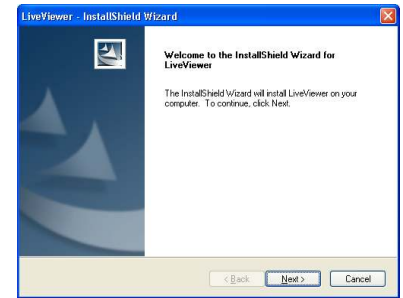
1. Turn on the computer.
If you use Windows® XP in your computer, you need to log in as an administrator.
2. Shut down all other applications.
3. Insert the accompanying CD-ROM into the computer's CD-ROM/DVD-ROM drive.
4. After a moment, the Choose Setup Language dialog will appear as shown on the right. Select the language you will use in the list and click [OK].

NOTE

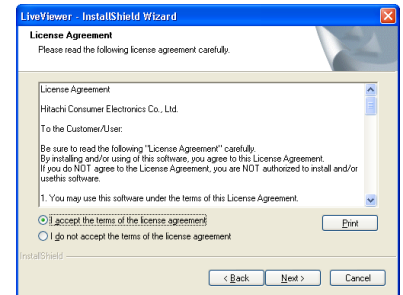
- If the Choose Setup Language dialog doesn't appear, proceed as follows:
(1) Click on the [start] button in the toolbar and select "Run".
(2) Enter 'E:\setup.exe' and then press [OK].
 ↑
 If your CD-ROM/DVD-ROM drive is not drive E on your computer, you will need to replace E with the correct drive letter assigned to your CD-ROM/DVD-ROM drive.
- If the software has been already installed, Un-installation will be done. Click [Cancel] button, then uninstallation will be canceled. If you uninstalled the software by miss-operation, please re-install the software from the first steps.



5. After a moment, the Welcome dialog will appear as shown on the right. Press the [Next].



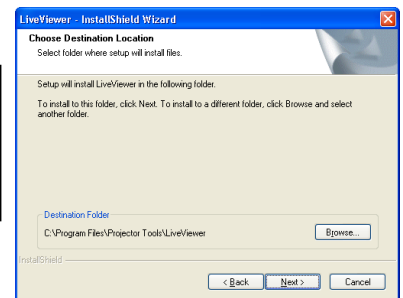
6. The License Agreement dialog appears. If you accept it, select “I accept the terms of the license agreement” and press the [Next].



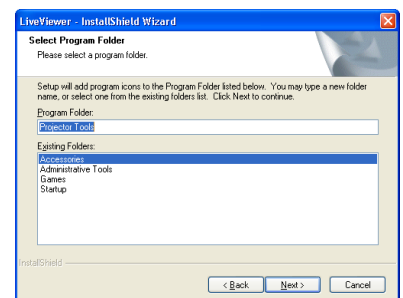
7. The Choose Destination Location dialog appears. Press the [Next].

NOTE

- The 'C: \Program Files\Projector Tools\LiveViewer' folder will be created and the program will be installed into that folder. If you wish to install to a different folder, click [Browse] and select another folder.



8. The Select Program Folder dialog appears. Confirm the program folder name. If “Projector Tools” is okay, press the [Next] to continue. If not enter the desired folder name and then press [Next].



9. If this is the first time to install LiveViewer in your computer, a dialog to make sure of installing the software appears. The dialog differs depending on the Operating System in your computer.

<If your computer uses Windows® XP>

The Hardware Installation dialog appears. Press [Continue Anyway].

<If your computer uses Windows Vista® or Windows® 7>

The Windows Security dialog appears. Please click [Install this driver software anyway].

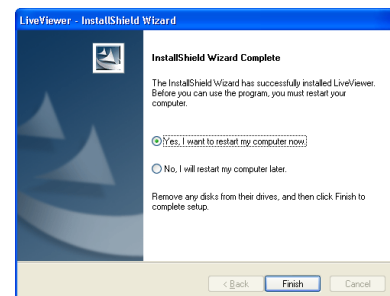
NOTE

- The dialog might appear after the second installation of the software depending on the condition of your computer.

10. After a moment, installation will complete and the Setup Complete dialog will appear as shown on the right. Click [Finish]. This completes the software installation. Please restart your computer.

If your computer uses 64-bit version of Windows®, you do not need to restart the computer.

- ✓ To confirm that the software as been properly installed, press the [start] button on the toolbar, select All Programs and then select the Projector Tools folder.
- ✓ “LiveViewer” will appear in that folder if the installation was successful.



3.2 Connecting to the network

LiveViewer provides several options for connecting to your network projector. You can choose one that best meets your system and user needs. The descriptions here are based on the case that Windows® 7 is installed in your computer.

NOTE

- Picture quality may deteriorate or audio output may be interrupted due to low data transfer rate caused by low communication band between computer and projector when multiple computers are communicating with projector.
- If you try to connect via network to the projector which another computer has been using as a USB display, it might reduce transfer rate causing deterioration of image quality or interruption of audio output.

3.2.1 Launch LiveViewer

Start the LiveViewer software in your computer, using one of the methods below:

- Double click the “LiveViewer” icon on the Desktop in your computer
- Select “start” → “All Programs” → “Projector Tools” → LiveViewer on Windows® menu.

Then, proceed to item “3.2.2 17BSelect Connection method”. (📖 10)

NOTE

- LiveViewer cannot be started if “LiveViewer Lite for USB” is running on your computer.
- A message dialog appears if a problem has occurred or to present to you information. Read and deal with the message if it appears. About the messages, refer to “Appendix A Messages” (📖 38).

3.2.2 Select Connection method

To start LiveViewer on your computer, the following menu appears. Select the option that describes the connection method you want to use.

○ Select From List

Proceed to item “3.2.2.1 Selecting from List”. (📖 11)

○ Enter Passcode

Proceed to item “3.2.2.2 Passcode connection”. (📖 11)

○ Profile

Proceed to item “3.2.2.3 Profile connection”. (📖 12)

○ History

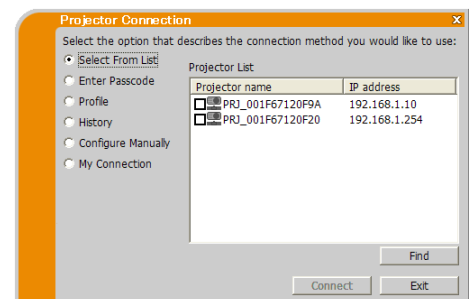
Proceed to item “3.2.2.4 History connection”. (📖 12)

○ Configure Manually

Proceed to item “3.2.2.5 Configuring manually”. (📖 13)

○ My Connection

Proceed to item “3.2.2.6 Selecting My Connection”. (📖 13)



3.2.2.1 Selecting from List

Before selecting this item, your computer and projectors need to be connected to the same network. If the connection is already established, select the “Select From List”. The Projector List, a list of the projectors connected to the network will appear in the window. Select the projectors you want to use and check their boxes. Then click [Connect]. The connecting process starts.

Proceed to item “X3.2.5X XConnection and transmissionX”. (📖 24)

You can check the status of the connection by the following icon on projector list.



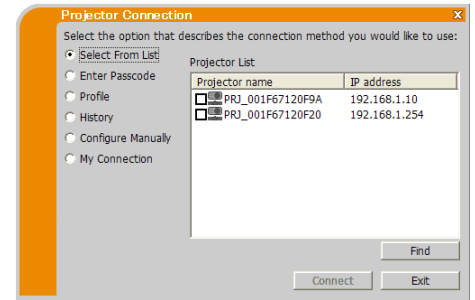
: The network connection to the projector is not established yet.



: The network connection is established, but the image transmission is on hold.



: The network connection is established and the images on the computer are being sent to the projector.



NOTE

- You can select up to 12 projectors at the same time from the list.
- When you select multiple projectors, the Multi Projector mode is selected automatically. (📖 28)
- You may not find any projector on the list under your network condition. Please click [Find].

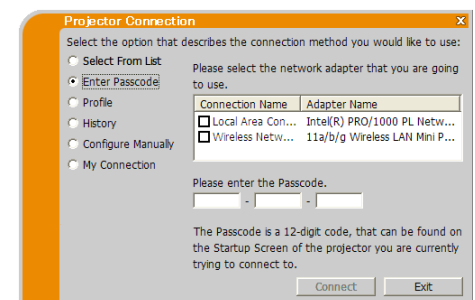
3.2.2.2 Passcode connection

If you want to use the Passcode for connecting to the projector, select “Enter Passcode”. A list of available network adapters and input boxes for Passcode will appear in the window. The Passcode is given by the projector on screen. Simply input the Passcode into LiveViewer to connect the network projector.

Select the network adapter you want to use and check its box, and enter the Passcode of the projector you are currently trying to connect to. Then click [Connect]. The connecting process starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

For more detail about Passcode, refer to “3.2.3 Passcode” (📖 14).



NOTE

- You cannot connect when there is no available network adapter on your computer.
- You may need to set IP address and other network settings manually under your network conditions.

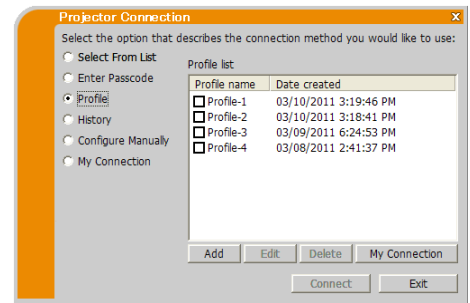
3.2.2.3 Profile connection

If you want to use the profile data for connecting to your network projector, select “Profile”. Profile list, which is a list of stored profile data will appear in the window. It is required to store the profile data in advance.

Select the ‘Profile’ data you want to use and check its box. Then click [Connect]. The connecting process starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

For more detail about profile, refer to “4.5 Profile data” (📖 36).



NOTE

- To check the setting in a profile data, follow the process below.
 - ✓ Choose a ‘Profile’ data that you want to check.
 - ✓ Move the mouse cursor to the ‘Profile’ and click the right button on the mouse to display a pop-up menu.
 - ✓ Select the “Properties” in the pop-up menu, and click the left button on the mouse.
 - ✓ The setting information of the selected ‘Profile’ data is shown.
- If the DHCP is set on in the projector, the network connection between the projector and computer may not be established since IP address may be varied. If you would like to use the profile connection, it is recommended that you set DHCP to off in the projector.

3.2.2.4 History connection

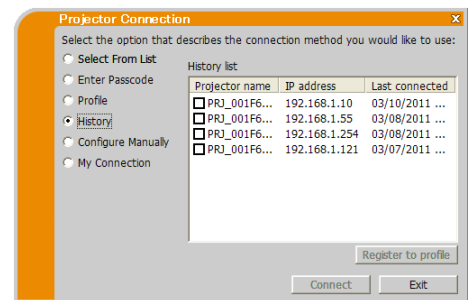
If you want to use the History data for connecting to the projector, select “History”. The History list of connection, which is a list of projectors connected in past will appear in the window.

Select the History data you want to use and check its box. Then click [Connect]. The connecting process starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

If you want to copy a History record to a profile data, select one of the History records and click [Register to profile]. The profile data cannot be erased automatically.

For more detail about profile, refer to “4.5 Profile data” (📖 36).



NOTE

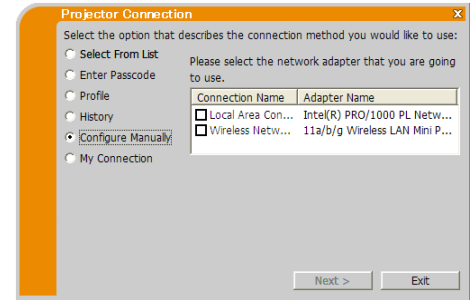
- The number of the History record is maximum 20. When the 21st data is stored, the oldest record among the 20 will be overwritten.
- The date & time information in each History record is renewed when the network is connected by using the History record.
- If the DHCP is set to on in the projector, the network connection between the projector and computer may not be established since IP address can vary. If you would like to use the History connection, it is recommended that you set DHCP to off in the projector.

3.2.2.5 Configuring manually

If you want to set the connection manually, select “Configure Manually”. A list of available network adapters will appear in the window.

Select the network adapter you want to use and check its box, and click [Next].

Proceed to item “3.2.4 Configure Network Setting Manually”. (📖 21)



NOTE

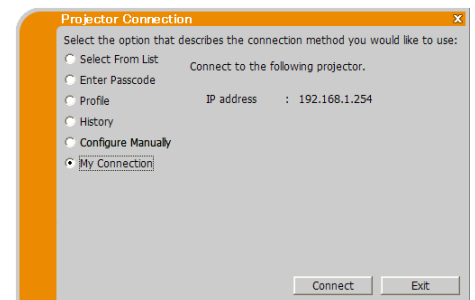
- Up to 12 projectors can be connected at the same time.
- When multiple projectors are connected, the Multi Projector mode is selected automatically. (📖 28)

3.2.2.6 Selecting My Connection

If you select the My Connection, the computer is connected to the projector through the network by using profile data that is pre-assigned to My Connection.

Select “My Connection” and click [Connect]. The computer immediately starts the connecting process to the projector.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)



NOTE

- If the DHCP is set to on in the projector, the network connection between the projector and computer may not be established since IP address can vary. If you would like to use My Connection, it is recommended that you set DHCP to off in the projector.
- If no profile data is assigned to My Connection, it cannot be used.

3.2.3 Passcode

The unique Passcode system brings you very quick and simple connection to the network. The Passcode is a code that expresses the network setting in the projector. When you input the Passcode in the LiveViewer software on your computer, the network settings of the projector and computer are matched and the connection will be established immediately. The section is intended to explain how to use the Passcode.

NOTE

- *The Passcode system does not work under the conditions below. If your system meets one of them, please set the connection manually after you input the Passcode.*
 - 1) *Encryption is used.*
 - 2) *Unique SSID is used.*

The factory default SSID are 4 of below;

<i>Factory default SSID 1:</i>	<i>wireless</i>
<i>Factory default SSID 2:</i>	<i>WLANProjector1</i>
<i>Factory default SSID 3:</i>	<i>WLANProjector2</i>
<i>Factory default SSID 4:</i>	<i>WLANProjector3</i>
 - 3) *Subnet mask is not Class A or B or C.*

Class A:(255.0.0.0), Class B:(255.255.0.0), Class C:(255.255.255.0)

3.2.3.1 Getting the Passcode

The Passcode is 12-digit code consisting of alphanumeric characters (1-9 and A-Z). The Passcode is displayed on the projector screen.

◆ Projector Models Group: B, C (except for CP-X268A and CP-X608)

There are two methods to get the Passcode from the projector.

➤ Method 1

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Go to Advanced Menu..., and press the ► cursor button.
- ✓ Use the ▲/▼ cursor buttons to select MIU, and press the ► cursor button.
- ✓ Use the ▲/▼ cursor buttons to select LIVE MODE, and press the ► cursor button.
- ✓ The Passcode will appear on the screen.

➤ Method 2

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select Go to Advanced Menu..., and press the ► cursor button.
- ✓ Use the ▲/▼ cursor buttons to select MIU, and press the ► cursor button.
- ✓ Use the ▲/▼ cursor buttons to select the INFORMATION, and use the ► cursor button to display the INFORMATION.
- ✓ The Passcode appears at the top right corner in the MIU INFORMATION window.

NOTE

- *Use Method 2 when you use the projector in the Live Mode or PC-LESS Presentation mode, or when the MIU is not selected as input source.*
- *If there is no communication between the projector and computer for five minutes, the Passcode will be changed.*

◆ Projector Models Group: D

There are two methods to get the Passcode from the projector.

➤ Method 1

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **COMPUTER** button on the remote control or **INPUT** button on the projector to select the LAN as input port.
- ✓ If there is no signal on the **LAN** port, you can find the Passcode on screen.

➤ Method 2

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select the **ADVANCED MENU** and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the **NETWORK**, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the **INFORMATION**, and use the ▶ cursor button to display the **INFORMATION**.
- ✓ The Passcode appears at the top in the **INFORMATION** window.

NOTE

- Use method 2 when you project your computer image by the LiveViewer, or when the **LAN** port is not selected as input source.
- If there is no communication between the projector and computer for five minutes, the Passcode will be changed.

◆ Projector Models Group: E

There are two methods to get the Passcode from the projector.

➤ Method 1

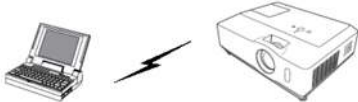
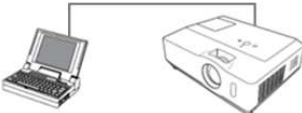
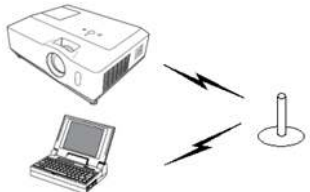
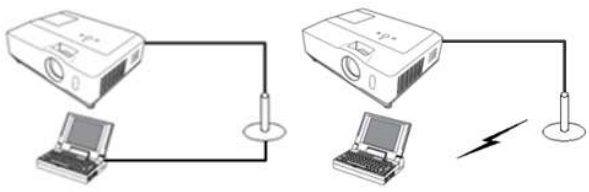
- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **COMPUTER** button on the remote control or **INPUT** button on the projector to select the LAN as input port.
- ✓ If there is no signal on the LAN port, you can find the Passcode on screen.

➤ Method 2

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select the ADVANCED MENU and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the NETWORK, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the WIRELESS INFORMATION or WIRED INFORMATION depending on the type of connection you use, and press the ▶ cursor button.
- ✓ The Passcode appears at the top in the “INFORMATION” window.

NOTE

- Use method 2 when you project your computer image by the LiveViewer, or when the LAN port is not selected as input source.
- If there is no communication between the projector and computer for five minutes, the Passcode will be changed.
- There are two types of the Passcode, PASSCODE_WIRELESS and PASSCODE_WIRED. Select proper type you want to use referring to the following images.

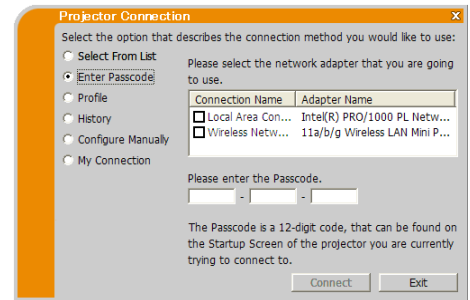
PASSCODE_WIRELESS	PASSCODE_WIRED
<p>a) Direct connection between the projector and computer</p> 	<p>a) The projector connected to computer by the wired LAN</p> 
<p>b) The projector connected to an access point by the wireless LAN</p> 	<p>b) The projector connected to an access point by the wired LAN</p> 

3.2.3.2 Entering the Passcode

After you select the network adapter you want to use, enter Passcode in the menu of LiveViewer divided 4-digit each in 3 boxes (total 12-digit).

Example: PASSCODE 1234-5678-9ABC

Refer to “3.2.2.2 Passcode connection” to proceed. (📖 11)



NOTE

- When entering the Passcode, capital and small letters are not distinguished.
- If the manual setting screen is displayed, please follow the item “3.2.3.3 Manual Configuration”. (📖 18)

3.2.3.3 Manual Configuration

After you input the Passcode (📖 17), you are required to input the network setting manually if you use any encryption code or your unique SSID or subnet mask except Class A/B/C (📖 16).

NOTE

- If you require the network setting information on the projector, follow these procedures:

◆ Projector Models Group: B, C

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select the *Go to Advanced Menu...*, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the *MIU*, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select *INFORMATION*, and press the ▶ cursor button.
- ✓ The setting will be displayed in the *MIU-INFORMATION* box.

◆ Projector Models Group: D

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select the *ADVANCED MENU*, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the *NETWORK*, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the *INFORMATION*, and press the ▶ cursor button.
- ✓ The setting will be displayed in the *NETWORK_INFORMATION* box.

◆ Projector Models Group: E

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select the *ADVANCED MENU*, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the *NETWORK*, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the *WIRELESS INFORMATION* or *WIRED INFORMATION* depending on the type of connection you use, and press the ▶ cursor button.
- ✓ The setting will be displayed in the *"INFORMATION"* window.

Wired LAN

If you use the wired LAN, proceed to item “3.2.3.7. Wired LAN”. (📖 20)

Wireless LAN

The required information depends on how you connect the projector and computer.

- Direct connection between the projector and computer.
Proceed to item “3.2.3.4 Direct connection between the projector and computer” (📖 19)
- The projector connected to an access point by the wired LAN.
Proceed to item “3.2.3.5 The projector connected to an access point by the wired LAN” (📖 19)
- The projector connected to an access point by the wireless LAN.
Proceed to item “3.2.3.6 The projector connected to an access point by the wireless LAN” (📖 20)

3.2.3.4 Direct connection between the projector and computer

- ✓ Enter the following information that is set in the projector.*¹

SSID: wireless (example)
Encryption: WEP64bit (example)
Encryption key *²: ***** (example)
Subnet mask *³: 255.255.255.128 (example)

- ✓ Click [Connect]

The connecting process via wireless LAN starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

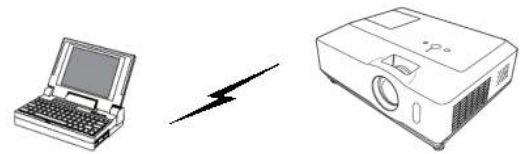
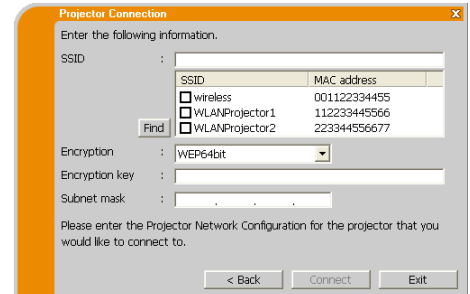


Fig.3.2.3.4: Direct connection between the projector and computer



NOTE

- *¹ To find the network setting on the projector, refer to the NOTE. (📖 18)
- Click [Find] to update SSID list.
- *² If you use an encryption, you need to set it. Contact the network administrator to check the encryption key that is set in the projector. The encryption key is always shown as “*****”.
- *³ If you use subnet mask except Class A/B/C, please set it.

3.2.3.5 The projector connected to an access point by the wired LAN

- ✓ The setting on the access point *¹.
Enter the following information.

SSID: WirelessAccessPoint (example)
Encryption: WEP64bit (example)
Encryption key *²: ***** (example)

- ✓ The setting on the projector *³.
Enter the following information.

Subnet mask *⁴: 255.255.255.128 (example)

- ✓ Click [Connect].

The connecting process via wireless LAN starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

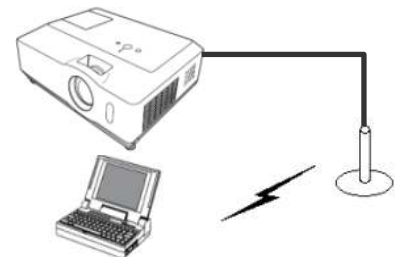
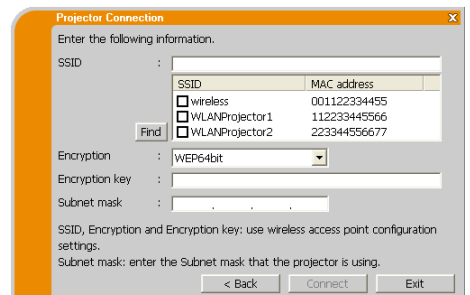


Fig.3.2.3.5: The projector connected to an access point by the wired LAN



NOTE

- *¹ Contact the network administrator to find out the setting on the access point
- Click [Find] to update SSID list.
- *² If you use encryption, you need to set it. Contact the network administrator to check the encryption key that is set in the access point. The encryption key is always shown as “*****”.
- *³ To find the network setting on the projector, refer to the NOTE. (📖 18)
- *⁴ If you use subnet mask except Class A/B/C, please set it.

3.2.3.6 The projector connected to an access point by the wireless LAN

- ✓ The setting on the access point ^{*1}.
Enter the following information.

SSID: **WirelessAccessPoint (example)**

Encryption: **WEP64bit (example)**

Encryption key ^{*2}: ******* (example)**

- ✓ The setting on the projector ^{*3}.
Enter the following information.

Subnet mask ^{*4}: **255.255.255.128 (example)**

- ✓ Click [Connect].

The connecting process via wireless LAN starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

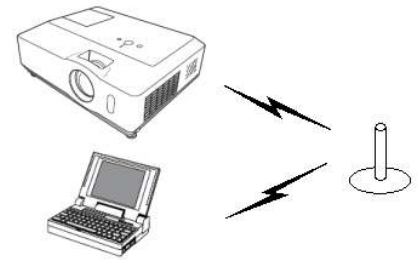
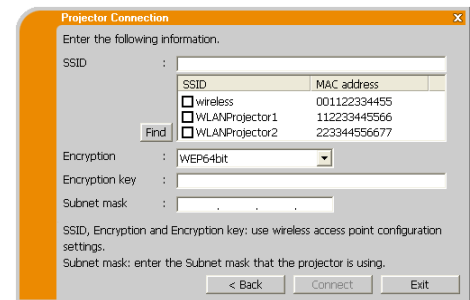


Fig.3.2.3.6: The projector connected to an access point by the wireless LAN



NOTE

- ^{*1} Contact the network administrator to find out the setting on the access point
- Click [Find] to update SSID list.
- ^{*2} If you use encryption, you need to set it. Contact the network administrator to check the encryption key that is set in the access point. The encryption key is always shown as "*****".
- ^{*3} To find the network setting on the projector, refer to the NOTE. (📖 18)
- ^{*4} If you use subnet mask except Class A/B/C, please set it.

3.2.3.7 Wired LAN

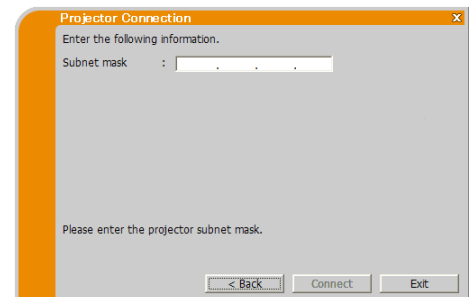
- ✓ Enter the following information for the projector.

Subnet mask ^{*1}: **255.255.255.128 (example)**

- ✓ Click [Connect].

The connecting process starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)



NOTE

- ^{*1} If you use subnet mask except Class A/B/C, please set it.

3.2.4 Configure Network Setting Manually

All the settings for the network connection between the projector and computer have to be input manually if you select “Configure Manually” in the menu of LiveViewer connection method. The information to be input for a manual configuration will vary, depending on how you want to connect the projector and computer.

Wired LAN

If you use the wired LAN, proceed to item “3.2.4.4 Wired LAN” (📖 23).

Wireless LAN

The required information depends on how you connect the projector and computer.

- Direct connection between the projector and computer.
Proceed to item “3.2.4.1 Direct connection between the projector and computer” (📖 below)
- The projector connected to an access point by the wired LAN.
Proceed to item “3.2.4.2 The projector connected to an access point by the wired LAN” (📖 22)
- The projector connected to an access point by the wireless LAN.
Proceed to item “3.2.4.3 The projector connected to an access point by the wireless LAN” (📖 23)

3.2.4.1 Direct connection between the projector and computer

- ✓ Enter the following information that is set in the projector. ^{*1}

SSID: wireless (example)
Encryption: WEP64bit (example)
Encryption key ^{*2}: ***** (example)
Mode: AD-HOC

- ✓ Click [Next].

- ✓ Enter the following information that is set in the projector. ^{*1}

IP address: 192.168.1.10 (example)
Subnet mask: 255.255.255.0 (example)

- ✓ Click [Add]. The IP address is added to the list.
- ✓ Click [Connect].

The connecting process via wireless LAN to all the projectors in the list starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

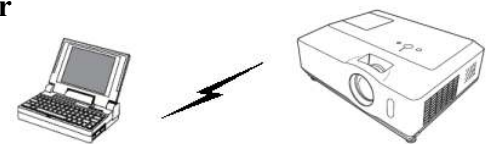


Fig.3.2.4.1: Direct connection between the projector and computer

SSID	MAC address
wireless	001122334455
WLANProjector1	112233445566
WLANProjector2	223344556677

IP address: 192.168.1.10, 192.168.1.11, 192.168.1.12
Subnet mask:

NOTE

- ^{*1} To find the network setting on the projector, refer to the NOTE. (📖 18)
- Click [Find] to update SSID list.
- ^{*2} If you use encryption, you need to set it. Contact the network administrator to check the encryption key that is set in the projector. The encryption key is always shown as “*****”.
- Up to 12 IP addresses can be registered on the list.

3.2.4.2 The projector connected to an access point by the wired LAN

- ✓ The setting on the access point ^{*1}
Enter the following information.

SSID: **WirelessAccessPoint (example)**
Encryption: **WEP64bit (example)**
Encryption key ^{*2}: ******* (example)**
Mode: **INFRASTRUCTURE**

- ✓ Click [Next].

- ✓ The setting on the projector ^{*3}
Enter the following information

IP address: **192.168.1.10 (example)**
Subnet mask: **255.255.255.0 (example)**

- ✓ Click [Add]. The IP address is added to the list.
- ✓ Click [Connect].

The connecting process via wireless LAN to all the projectors in the list starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

NOTE

- ^{*1} Contact your network administrator for the proper access point settings.
- Click [Find] to update SSID list.
- ^{*2} If you use an encryption, you need to set it. Contact the network administrator to check the encryption key that is set in the access point. The encryption key is always shown as “*****”.
- ^{*3} To find the network setting on the projector, refer to the NOTE. (📖 18)
- Up to 12 IP addresses can be registered on the list.

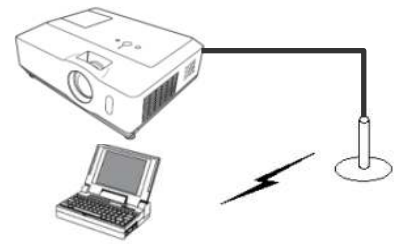


Fig.3.2.4.2: The projector connected to an access point by a LAN cable

SSID	MAC address
<input type="checkbox"/> wireless	001122334455
<input type="checkbox"/> WLANProjector1	112233445566
<input type="checkbox"/> WLANProjector2	223344556677

3.2.4.3 The projector connected to an access point by the wireless LAN

- ✓ The setting on the access point ^{*1}
Enter the following information.

SSID: **WirelessAccessPoint (example)**
Encryption: **WEP64bit (example)**
Encryption key ^{*2}: ******* (example)**
Mode: **INFRASTRUCTURE**

- ✓ Click [Next].

- ✓ The setting on the projector ^{*3}
Enter the following information.

IP address: **192.168.1.10 (example)**
Subnet mask: **255.255.255.0 (example)**

- ✓ Click [Add]. The IP address is added to the list.
- ✓ Click [Connect].

The connecting process via wireless LAN to all the projectors in the list starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

NOTE

- ^{*1} Contact the network administrator to find out the setting on the access point..
- Click [Find] to update SSID list.
- ^{*2} If you use an encryption, you need to set it. Contact the network administrator to check the encryption key that is set in the access point. The encryption key is always shown as “*****”.
- ^{*3} To find the network setting on the projector, refer to the NOTE. (📖 18)
- Up to 12 IP addresses can be registered on the list.

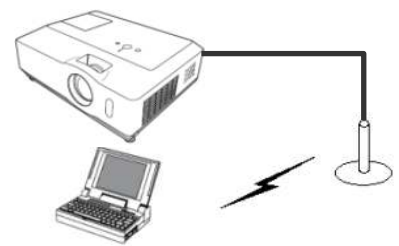


Fig.3.2.4.3: The projector connected to an access point by the wireless LAN

3.2.4.4 Wired LAN

- ✓ Enter the following information that is set in the projector. ^{*1}

IP address: **192.168.1.10 (example)**
Subnet mask: **255.255.255.128 (example)**

- ✓ Click [Add]. The IP address is added to the list.
- ✓ Click [Connect].

The connecting process via wireless LAN to all the projectors in the list starts.

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

NOTE

- ^{*1} To find the network setting on the projector, refer to the NOTE. (📖 18)
- Up to 12 IP addresses can be registered on the list.

3.2.5 Connection and transmission

3.2.5.1 Confirmation Connection status

Connection status menu appears when you click [Connect] and connecting process starts. You can check the process from the [Status] field.

When all the projectors are connected, the Connection list will appear.

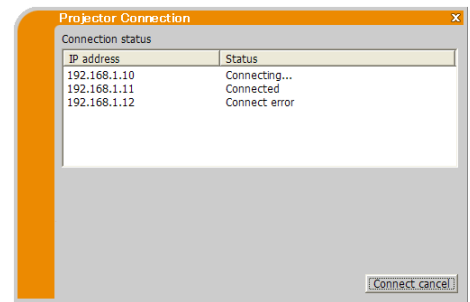
To cancel the connections, click [Connect cancel].

If there are any connections which had established before [Connect cancel] was clicked, Connection list will appear after the connecting process is canceled.

Proceed to item “3.2.5.2 Connection List”. (📖 24)

An error message will appear if there is a connection error.

Proceed to item “3.2.6 Connection error”. (📖 25)



NOTE

- The connection is canceled and time out error when it cannot connect over one minute.



3.2.5.2 Connection List

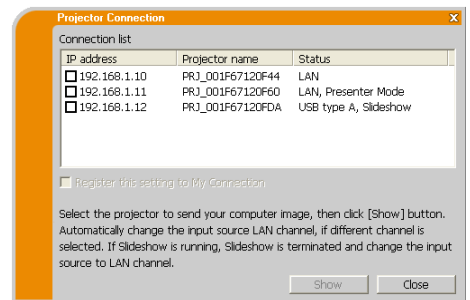
All projectors are connected, the Connection list will appear.

Click the check box of the projector you want to transmit the image to and click [Show].

The input port of the projector is automatically switched to MIU or LAN and image transmission starts.

Proceed to item “4 LiveViewer Operation” (📖 29).

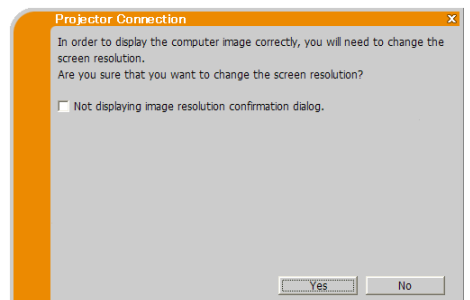
If you select [Close], then the LiveViewer main menu is displayed in stand-by mode. (Stand-by mode is the state where there is no image transmission, although the network connection is established.) The transmission starts when you click display mode button  or start capture button  on the LiveViewer main menu.



◆ Projector Models Group: B, C

If the resolution on your computer is set higher than XGA (1024x768), the message dialog to prompt you change the resolution will appear.

- ✓ To change the resolution, click [Yes].
 - If you click [Yes], the resolution on your computer is switched to XGA (1024x768).
 - If you click [No], the resolution is not changed.




NOTE

- Up to 12 projectors can be connected at the same time.
- If you want to register one of the settings of connection as My Connection, check the “Register this setting to My Connection”. After the registration of My Connection, the data will be shown in the Profile list.
- If you checked “Not displaying image resolution confirmation dialog” option, this dialog will not show up the next time. If you would like to change the setting, click option button on the LiveViewer main menu and uncheck “Not displaying image resolution confirmation dialog” option.
- When the resolution of your computer is changed, the arrangement of icons on the Desktop screen may be changed.
- Even if the resolution is changed, it will be back to the original when the LiveViewer is closed.
- If the resolution is not changed, the projector will display XGA (1024x768) portion from top left corner of your computer screen.
- Refer to the user manual for your computer or Windows® to change the resolution of your computer.

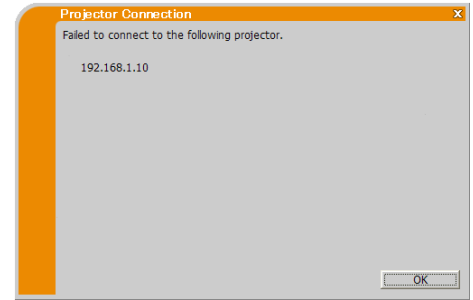
3.2.6 Connection error

When the connection to the projector could not be established, an error message, “Failed to connect to the following projector.” will be displayed.

Click [OK] then the LiveViewer main menu is displayed even though the network is not established. Click connect button  on the LiveViewer main menu to go back to “3.2.2 Select Connection method”. (📖 10)

If you tried to connect to plural projectors and there are any projectors their connection were established, the Connection list will appear after you click [OK].

Proceed to item “3.2.5.2 Connection List”. (📖 24)



NOTE

- Check the network setting in the projector especially if you use My Connection, and retry the connection from item “3.2.2 Select Connection method”. (📖 10)

3.3 Starting the Network Presentation

This chapter explains the Network Presentation feature with which you can project computer images transmitted through a network.

LiveViewer allows you to project images from one or multiple computers by connecting the projector to an existing network without using computer cables.

This Network Presentation feature helps you to smoothly make your presentations and conduct conferences.

◆ Projector Models Group: B, C

To start the Network Presentation, select MIU as the input source and set the projector to Live Mode according to “3.3.1 Setting the Live Mode (only for Projector Models Group: B, C)”. (📖 below)

◆ Projector Models Group: D, E

To start the Network Presentation, select the LAN port as the input source on the projector and click the start capture button on the LiveViewer.

3.3.1 Setting the Live Mode (only for Projector Models Group: B, C)

This section is intended to explain how to switch to Live Mode in the MIU menu of the projector.

From Web Control on a web browser:

- ✓ Click [LIVE MODE] button on the Web Remote Control window.

From the OSD menu, by using the remote control or keypad on the projector:

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select the Go to Advanced Menu..., and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select MIU, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select the LIVE MODE, and press the ▶ cursor button.

From MY BUTTON function:

- ✓ Turn on the projector, and make sure that the projector image is on screen.
- ✓ Press the **MENU** button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the menu on screen.
- ✓ Use the ▲/▼ cursor buttons to select the Go to Advanced Menu..., and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select OPTION, and use the ▶ cursor button to enter the item.
- ✓ Use the ▲/▼ cursor buttons to select MY BUTTON, and use the ▶ cursor button to enter the item.
- ✓ Choose 1 or 2 on the MY BUTTON menu using the ◀/▶ cursor buttons and using the ▲/▼ buttons sets LIVE MODE function to the button.
- ✓ Press MY BUTTON 1 or 2 you assigned LIVE MODE.

3.3.2 Display Mode

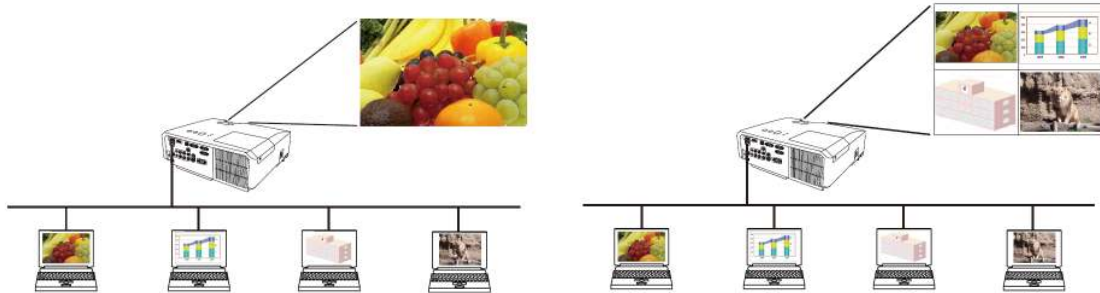
In LiveViewer, there are two display modes, Single PC mode and Multi PC mode.

➤ **Single PC mode**

The projector displays images sent by one computer. Also audio can be sent by one computer. (📖 34)

➤ **Multi PC mode**

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



NOTE

- Audio cannot be sent in the Multi PC mode.
- When multiple computers are connected and try to communicate with one projector, data transfer performance may decrease.
- When motion pictures are displayed on screen of the projector, it is not recommended to connect more than five computers with the projector.
- When multiple computers are connected to one projector, it is recommended to consult with network administrator to establish suitable connection environment with less load given to network as possible.
- Picture quality may deteriorate or audio output may be interrupted due to low data transfer rate caused by low communication band between computer and projector when multiple computers are communicating with projector.
- If you try to connect via network to the projector which another computer has been using as a USB display, it might reduce transfer rate causing deterioration of image quality or interruption of audio output.

3.3.3 Presenter Mode

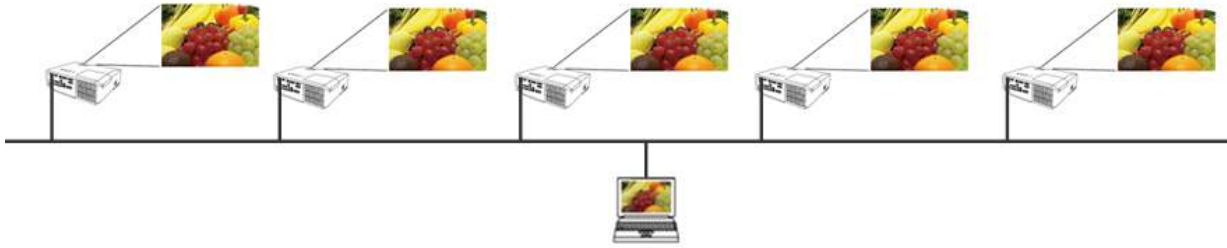
In the Single PC mode, the projector can be occupied by one computer and can block access from any other computer, if the Presenter Mode is selected in the LiveViewer. While making your presentation, you don't need to worry that the image on screen is unexpectedly switched to an image sent by another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

3.3.4 Display User Name




A user name can be set in LiveViewer, which is displayed on screen while presenting. So, viewers know whose image is currently displayed on screen.

3.3.5 Multi Projector Mode

The projectors and your computer are in Multi Projector mode when plural projectors are connected to your computer. In the Multi Projector mode, up to 12 projectors can connect with the computer via wireless or wired LAN simultaneously.

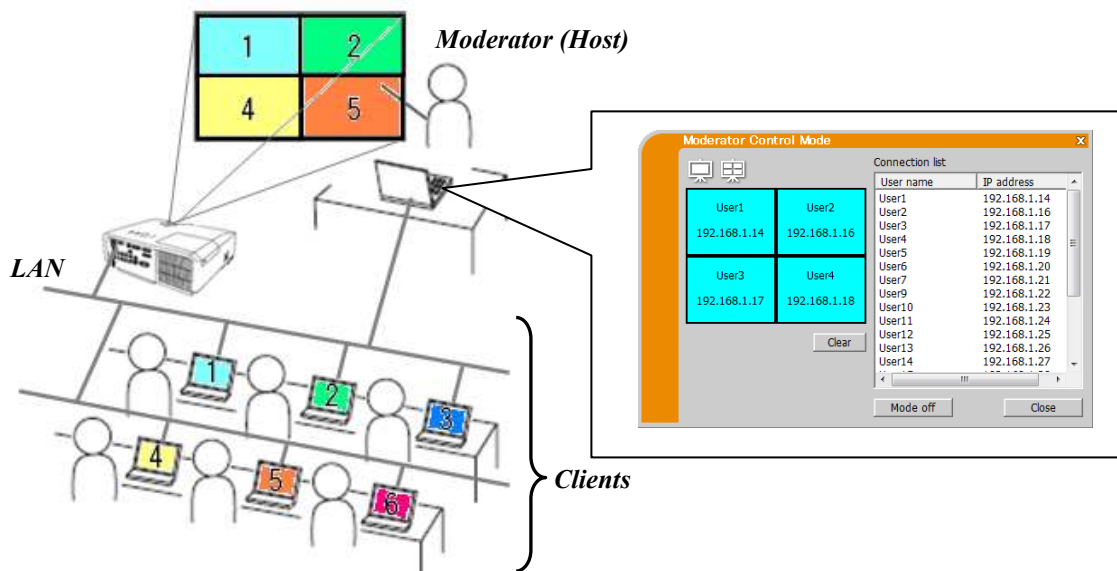


NOTE

- Audio cannot be sent in the Multi Projector mode.
- The Presenter Mode is canceled in all projectors when one of them canceled it in the Multi Projector mode.
- Multi PC mode is NOT available in the Multi Projector mode.
- Transfer performance may decrease in the Multi Projector mode.
- Display mode button  on the LiveViewer main menu is automatically changed to Multi Projector mode button  in the Multi Projector mode. ( 29)
- It is recommended to connect computer and multiple projectors wired for "Multi Projector mode".

3.3.6 Moderator Control Mode

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



NOTE

- Up to 50 computers, including the Host computer, can join one group of the Moderator Control mode.
- Only one computer can be set as Moderator.
- When a computer is set as Moderator, once all computers including the Moderator connected to the same projector stop image transmission.
- The Presenter mode is NOT available in the Moderator Control mode.
- The Moderator Control mode can be canceled by force when the network is restarted in the projector menu or Web Control on a web browser is executed.

4 LiveViewer Operation

When you get the connection between your projector and computer, the LiveViewer main menu will be shown on the computer screen. On the main menu you can configure settings and operate functions to send your images to the projector.

4.1 Main menu and Operating buttons

4.1.1 Menu Type

There are two types of the LiveViewer main menu, Easy and Advanced, which can be switched on screen. When LiveViewer is started or the connection is not established, Advanced type will be shown first.

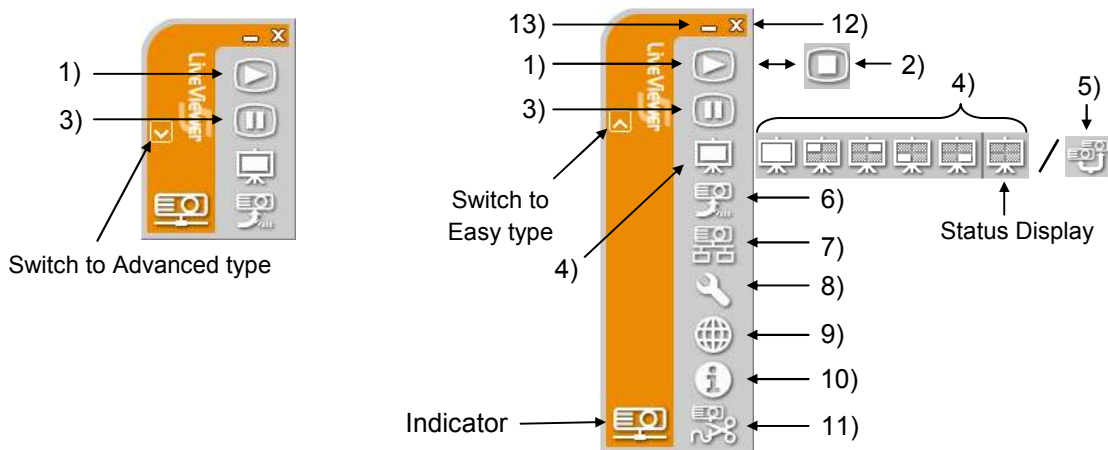


Fig.4.a LiveViewer 5.0 main menu (Easy type / Advanced type)

4.1.2 Operating buttons


1) Start capture button

The transmission to the projector is started and the images will be displayed. The display mode will be the Single PC mode at first. After that, the last display mode will be applied.

NOTE

- The start capture button cannot be operated if someone has already been Moderator.
- The primary image is displayed in multi-display environment.

2) Stop capture button

Start capture button  is automatically changed to stop capture button when image transmission starts. The image transmission is stopped.

NOTE

- Images may not be displayed on screen, if the start/stop capture buttons are clicked repeatedly.

3) Hold button

The image on screen is temporally frozen. The last image before the button is clicked remains on screen. You can revise the image data on your computer without showing it on the projector's screen.



NOTE

- The Multi Projector mode button  cannot operate until the screen unfreezes.

4) Display mode button (32)

Display mode switches between Single PC mode and Multi PC mode.
Also the image transmission can be started or stopped.

5) Multi Projector mode button



Display mode button  is automatically changed to Multi Projector mode button  in the Multi Projector mode.

The Multi Projector Control window appears. ( 32)

6) Moderator Control mode button


The computer is set to the Moderator and the Moderator Control window appears. ( 33)

NOTE

- The Moderator Control mode button  and start capture button  cannot be operated if somebody connected to same projector has already been Moderator.
- The Moderator Control mode button cannot be clicked in the Multi Projector mode.

7) Connect button

The dialog to select the connection method is displayed.

For more detail, refer to “3.2.2 Select Connection method”. ( 10)

8) Option button

The option menu is displayed.

9) Web Control button

Starts the Web browser on your computer and displays the Web Control screen to control one projector and change various settings for the projector.

NOTE

- “Web Control” cannot control multiple projectors at the same time. In the Multi Projector mode, a window with all connected projectors listed is displayed when Web Control button is clicked. Select one projector you want to control.

10) Information button

The version of LiveViewer is displayed.

11) Disconnect button

The network is disconnected.

12) Exit button

The network is disconnected and LiveViewer is closed.

13) Minimize button

The main menu is closed, and only the LiveViewer icon is displayed on the task tray in your computer.
Double-click the icon in the task tray to re-launch the main menu.

Connected



Disconnected



Not connected



Hold







Fig.4.b Task tray Icon

4.1.3 Displaying the Status






4.1.3.1 Indicator

The indicator shows the following status.

Indicator	Status	Note
	Not connected	The network connection to the projector is not established yet.
	Hold	The network connection is established, but the image transmission is on hold.
	Connected	The network connection is established and the images on the computer are being sent to the projector. The indicator blinks while the connection is in progress.
	Disconnected	The network connection to the projector is disconnected.

4.1.3.2 Status Display in Multi PC mode

The icon is displayed at the right end of the display mode buttons. One of the following icons are designed to inform you how many and which of the quarter screens are in use in Multi PC mode.

Status	Status icon
No computer is on screen	
One computer is on screen.	
Two computers are on screen.	
Three computers are on screen.	
Four computers are on screen.	

NOTE

- The status display is refreshed in every three seconds.
- If status cannot be acquired, it will not be refreshed.

4.1.4 Switching the display mode

LiveViewer has Single PC mode and Multi PC mode. These modes can be switched on the main menu.

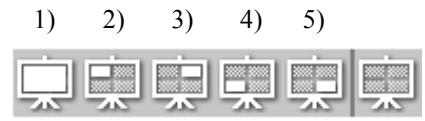
- ✓ Click the display mode button  on the main menu. The buttons below are displayed.

- ✓ Select from 1) to 5) buttons, and click it.


1) Single PC mode button: Switches to the Single PC mode.

Your image is displayed full screen.

2) - 5) Multi PC mode buttons: Switches to the Multi PC mode. Your image is displayed on a quarter screen as identified in the button.



The projector screen is switched to the mode selected above, and the transmission of your computer image will be started to display your image on the screen.

The icon of the display mode button  on the main menu is replaced by the icon you selected.

NOTE

- Image transmission will be stopped in the following situations:
 - When you click the Single PC mode button while the projector is in the Single PC mode
 - When you click one of the Multi PC mode buttons while the projector is in the Multi PC mode
- When Multi PC mode is selected, the projector screen is automatically divided into four zones.
- When the screen or one of the areas occupied by another computer is selected:
 - ◆ **Projector Models Group: B, C**
the computer which had occupied the part is disconnected.
 - ◆ **Projector Models Group: D, E**
the image transmission from that computer will be put on hold and the image of the currently specified computer will be displayed.

4.2 Multi Projector Control window

In the Multi Projector mode, up to 12 projectors can be connected and controlled individually or simultaneously.

1) Connection list

All of the connected projectors are displayed in the list.

2) Start capture button

The transmission to the projector is started and the images will be displayed

3) Stop capture button

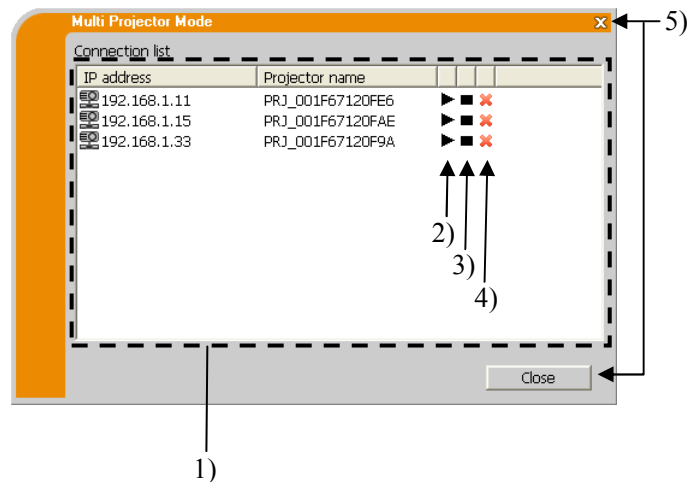
The image transmission is stopped.

4) Disconnect button

The network is disconnected. The disconnected projector disappears from the Connection list.

5) Close button

Close the Multi Projector Control window and back to the LiveViewer main menu.



You can check the status of the connection by the following icon on Connection list.



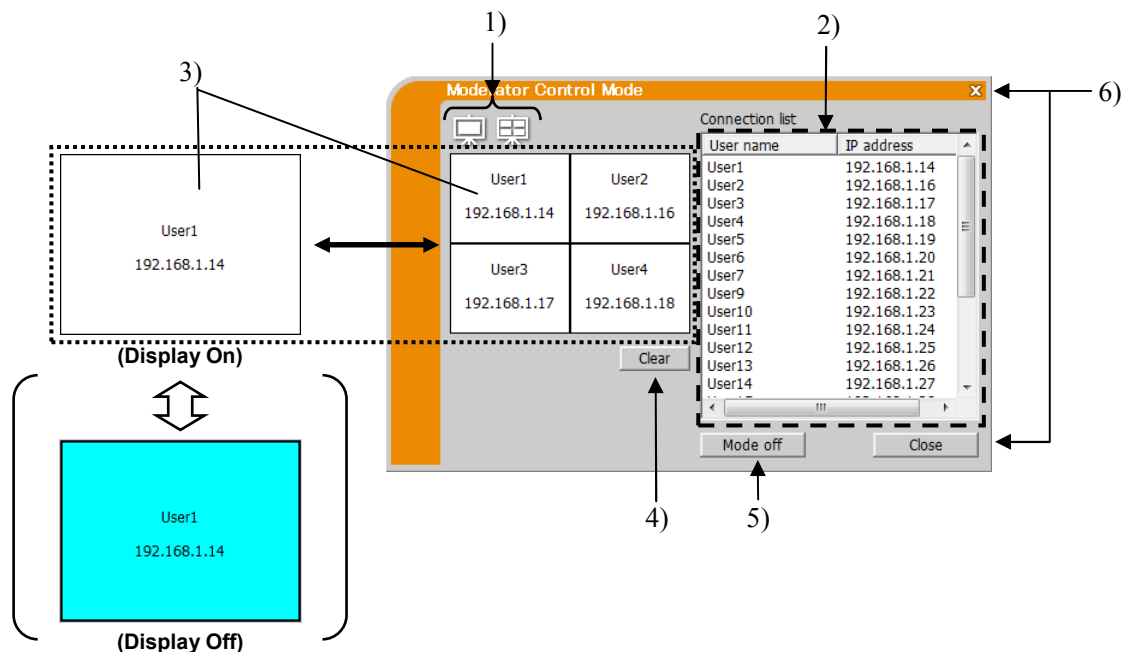
: The network connection is established, but the image transmission is on hold.



: The network connection is established and the images on the computer are being sent to the projector.

4.3 Moderator Control window

A computer can be set to Moderator (Host) that can control all other computers (Clients) connected with the projector.



1) Display mode buttons (📖 32)

Display mode switches between Single PC mode and Multi PC mode.

2) Connection list

All computers connected to the same projector as the Moderator connected to are displayed in the list.

3) Display window

The information of the computers whose images are displayed on screen of the projector is displayed. Drag and drop the computer from the Connection list onto this area to display the image on screen of the projector. Image transmission is started/stopped each time the window is clicked.

In the Multi PC mode, the window is divided into four zones the same as the screen. Each zone can be manipulate independently and the information is displayed for each.

4) Clear button

Clears the Display window and stops image transmission to the projector.

5) Mode off button

Cancels the Moderator Control mode. The Display window is cleared and image transmission to the projector stops.

6) Close button

Closes the Moderator Control window and back to the LiveViewer main menu.

4.4 Option menu

Clicking the option button displays the option menu on screen.

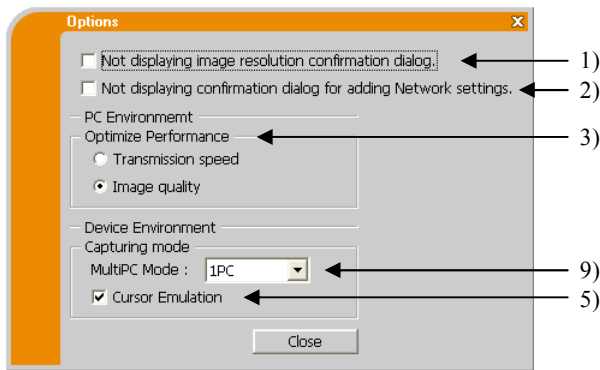


Fig. 4.c Option menu of **Projector Models Group: B**

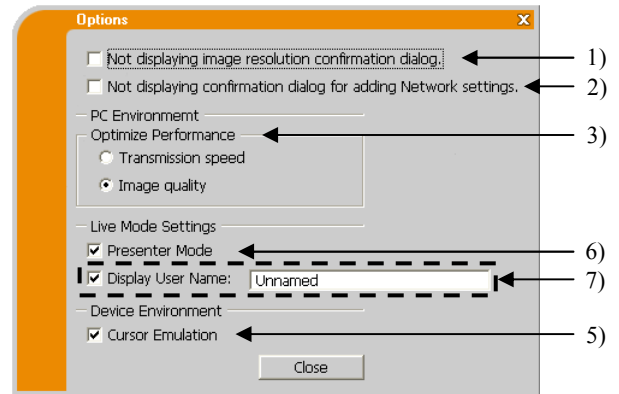


Fig. 4.d Option menu of **Projector Models Group: C**

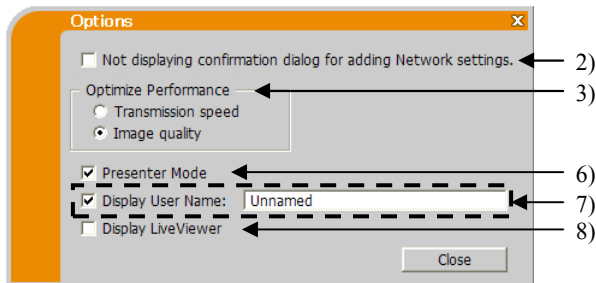


Fig. 4.e Option menu of **Projector Models Group: D**

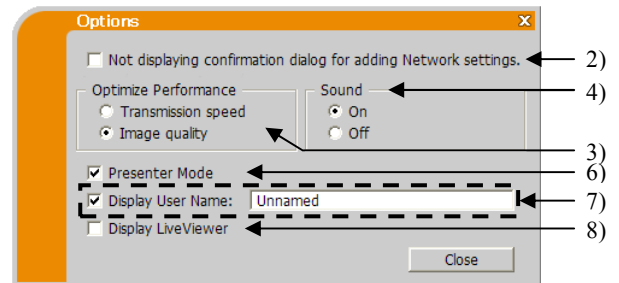


Fig. 4.f Option menu of **Projector Models Group: E**

1) Not displaying image resolution confirmation dialog. (only for **Projector Models Group: B, C**)

If checked – The confirmation dialog for screen resolution reconfiguration (📖 24) is not displayed.

If unchecked – The dialog is always displayed (Default behavior).

2) Not displaying confirmation dialog for adding Network settings.

If checked – The confirmation dialog for adding a network configuration (📖 39) is not displayed when you connect the computer to the projector.

If unchecked – The dialog is always displayed (Default behavior).

3) Optimize Performance

LiveViewer captures computer screen in JPEG data and sends the JPEG data to the projector. LiveViewer has two options that have different compression rate of JPEG data.

Transmission speed: Speed takes priority over image quality. It makes JPEG compression rate higher. The screen on the projector is rewritten quicker because the transferred data is smaller, but the image quality is worse.

Image Quality: Image quality takes priority over speed. It makes JPEG compression rate lower. The screen on the projector is rewritten slower because the transferred data is larger, but the image quality is better.

4) Sound (only for **Projector Models Group: E**)

Audio transmission can be selected valid (On) or invalid (Off). The default setting is On.

5) Cursor Emulation (only for **Projector Models Group: B, C**)

If the mouse cursor (pointer) on your computer screen is not displayed on the projector screen, check in the box.

If the cursor is on the projector screen, not check it.

6) Presenter Mode (not available to **Projector Models Group: B**)

In the Single PC mode, the projector can be occupied by one computer and can block access from any other computer, if the Presenter mode is selected in LiveViewer. While making your presentation, you don't need to worry that the image on screen is unexpectedly switched to an image sent by another computer. If you want to turn it on, put a check mark in the check box.

NOTE

- *If the Multi PC mode is selected, the setting for the Presenter mode is invalid.*
- *When switching from the Multi PC mode to the Single PC mode, the Presenter mode setting of the computer is valid.*
- *The Presenter mode is set valid in factory default setting.*

7) Display User Name (not available to **Projector Models Group: B**)

A user name that is up to 20 letters can be input by using alphanumeric characters. The user name can be displayed on the projector screen, so you can find out whose image is currently on the screen. If the check box is not marked, the information is not sent to the projector.

8) Display LiveViewer (only for **Projector Models Group: D, E**)

If you want to display LiveViewer application window to the screen of the projector, please check the box.

NOTE

- *Please check this box when you use Starboard Software with **iPJ-AW250N**. The annotation layer may not display on the projector image when this option is set to off.*

9) MultiPC Mode (only for **Projector Models Group: B**)

Select the number of computers you would like to connect to the projector (quantity 1 to 4).

4.5 Profile data

4.5.1 Outline of Profile data

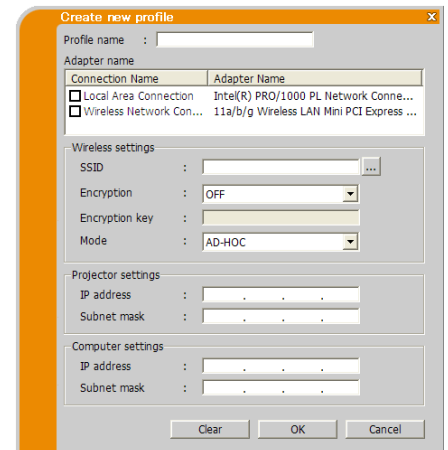
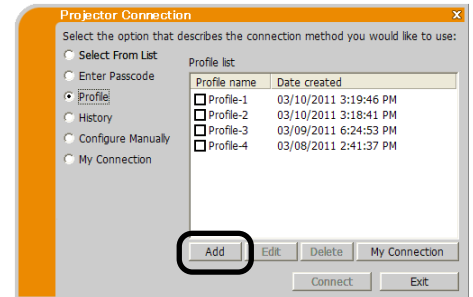
The network setting to connect the projector and computer can be stored as a profile data. Once the data is stored, all you need to do is to select the data to connect to the network. It is recommended when the same network connection is often used.

4.5.2 Making Profile data

- ✓ Select “Profile” and click [Add] in the menu of LiveViewer connection method.
- ✓ “Create new profile” will come up. If you have already made 20 profile data, you cannot make a new one, until you delete a stored data. Input all information required for your network connection. If you want to clear all information you input, click [Clear].
- ✓ Click [OK], after all information is set. If you don’t want to store it, click [Cancel].
- ✓ The new profile data is shown in the Profile list, if you click [OK].

NOTE

- When you make a new profile, it is strongly recommended to check that the new profile works properly by selecting the data at the profile connection.
- If you change a network adapter on your computer, make a new profile for the adapter.
- Up to 20 profiles can be registered. If 20 profiles already exist, the box cannot be checked
- The Profile name is assigned by LiveViewer automatically if you registered the profile data as My Connection from the Connection list. The name will be shown in the Profile list.

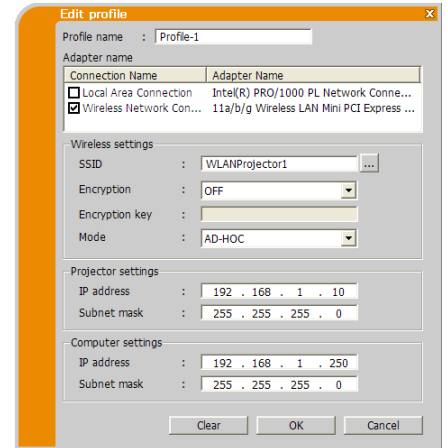
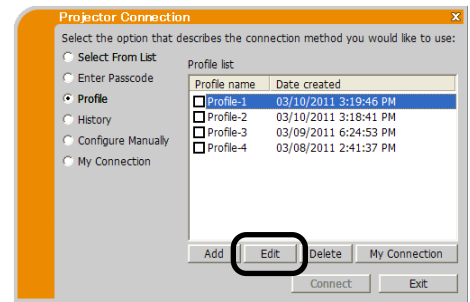


4.5.3 Editing Profile data

- ✓ Select “Profile”, and select one of the profiles listed in the menu of LiveViewer connection method.
- ✓ Click [Edit].
- ✓ The “Edit profile” screen will come up.
- ✓ Edit the information required to be revised. If you want to clear all information you input, click [Clear].
- ✓ Click [OK], after the editing is completed. If you don’t want to store it, click [Cancel].
- ✓ The edited profile data is stored and shown in the Profile list with the new Date created information, if you click [OK].

NOTE

- When you make a new profile, it is strongly recommended to check that the new profile works properly by selecting the data at the profile connection.



4.5.4 Registering My Connection

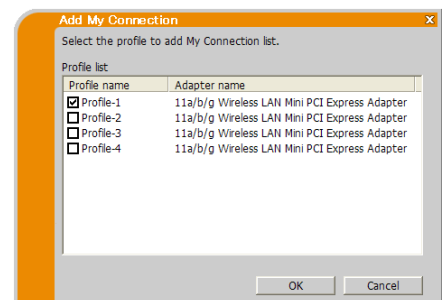
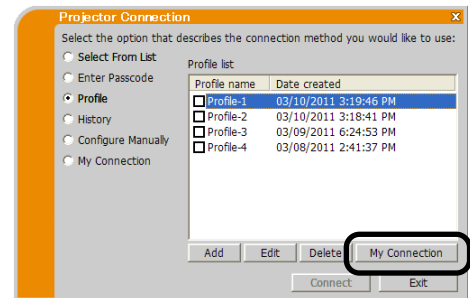
One profile can be registered as ‘My Connection’ to be often used. Once registered, all you need to do is to select My Connection to connect to the network.

- ✓ Click [My Connection].
- ✓ The “Add My Connection” screen will come up. The currently selected profile data for the My Connection is shown with a check mark in the list.
- ✓ Select one profile listed in the window and put a mark in the check box.
- ✓ Click [OK], then the window is closed. If you don’t want to select a new one, click [Cancel].

You can also register My Connection from the Connection list displayed after the network connection is established. For more detail, refer to “3.2.5.2 Connection List” (24).

NOTE

- In the list, all profile data are shown no matter which network adapter is selected. You can register a profile that is not for currently selected network adapter as My Connection.



Appendix

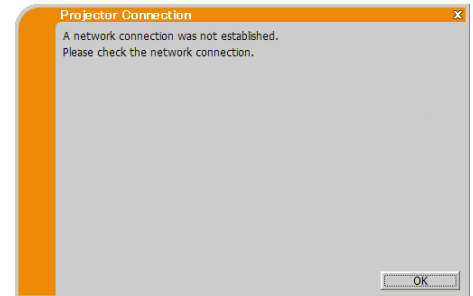
A Messages

The following message dialogs appear if a problem has occurred or to present to you information. Read and deal with the messages if they appear.

Message 1: A network connection was not established.

This message is displayed in the case that the projector is not connected with a LAN cable to your computer when wired LAN is selected. Be sure that the projector is connected with a LAN cable to your computer.

Click [OK] to return to the previous screen.



Message 2: The number of computer connection exceeds the limit (max. 50).

The projector has already reached the maximum number of network connections.

Click [OK], and the LiveViewer main menu is displayed.

Please retry after disconnecting one (or more) of the connected computers.



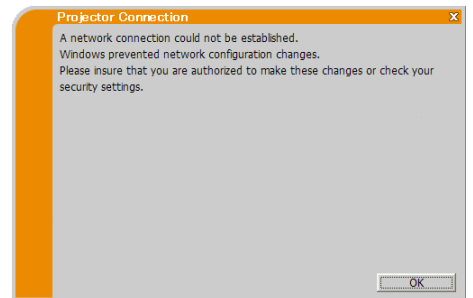
Message 3: A network connection could not be established.

Windows® prevented network configuration changes because you may have not logged into Windows® under Administrator authority.

Click [OK] to return to the previous screen.

Consult with the network administrator to log in under Administrator authority. Once log out from Windows®, log in again with Administrator authority and return to “**3 Starting with LiveViewer**”.

(📖 7)



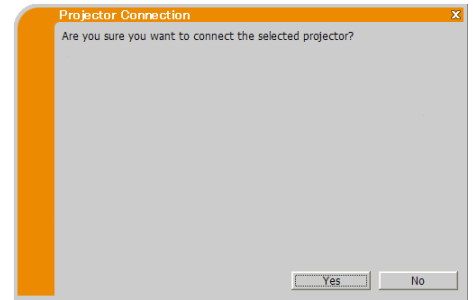
Message 4: Are you sure you want to connect the selected projector?

This message appears when the wireless adapter you selected is already in use with another network connection.

To connect, click [Yes].

Proceed to item “3.2.5 Connection and transmission”. (📖 24)

Click [No] to return to the previous screen.

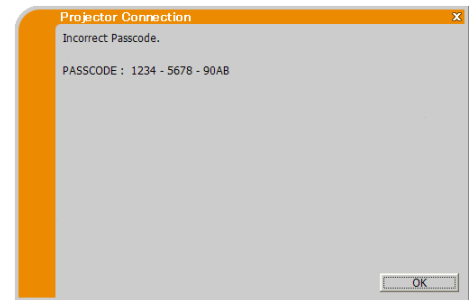


Message 5: Incorrect Passcode.

The incorrect Passcode was input.

Click [OK] to return to the “Enter Passcode” screen.

Check the Passcode on the projector screen and enter the code again.



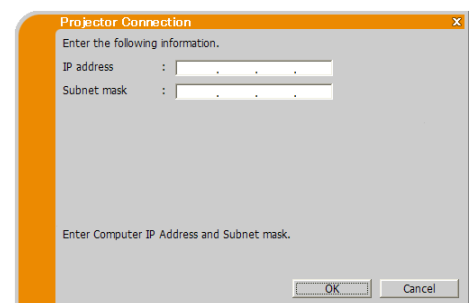
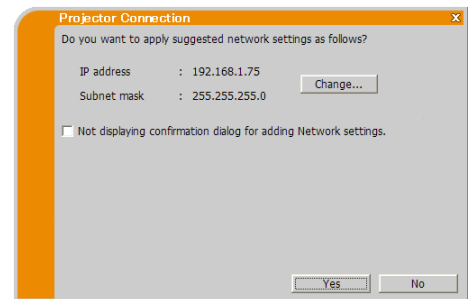
Message 6: Do you want to apply suggested network settings as follows?

This dialog will be displayed when you need to change a Network configuration on your computer in order to connect to the projector.

Confirm with your network administrator if the Network configuration on the dialog is OK. Then click [Yes].

If you don't want to apply the Network configuration on the dialog, click [No].

If you want to add the Network configuration manually, click [Change]. A new dialog will be display to add a network configuration as shown on the right hand side. Please enter IP address and subnet mask of your computer. Then click [OK].

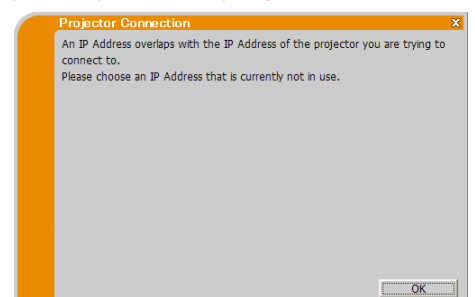


NOTE

- If you checked “Not displaying confirmation dialog for adding Network settings” option, this dialog will not show up the next time. If you would like to change the setting, click option button on the LiveViewer main menu and uncheck “Not displaying confirmation dialog for adding Network settings” option.

Message 7: An IP Address overlaps with the IP Address of the projector you are trying to connect to.

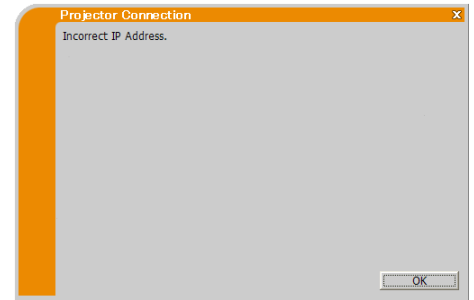
This message appears when the IP address on your computer is the same as that of the projector. Since different IP addresses are required, click [OK] and enter proper IP address.



Message 8: Incorrect IP Address.

This message appears when an incorrect IP address on your computer is set.

Click [OK] and enter proper IP address.




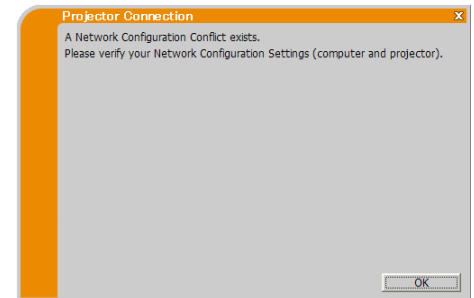
Message 9: A Network Configuration Conflict exists.

This message comes up when the network connection mode you set in the computer does not match with the mode of the projector.

Please verify your network configuration setting on the projector and computer.

Click [OK], then the LiveViewer main menu is displayed even though the network connection is not established.

Click connect button  on the LiveViewer main menu to go back to "3.2.2 Select Connection method". (📖 10)



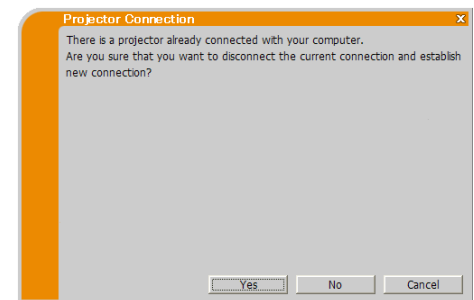
Message 10: There is a projector already connected with your computer.

This message appears when there is a projector already connected with your computer.

Click [Yes] if you disconnect the current connection. New connection is established.

Click [No] if you keep the current connection with establishing new connection. (Multi Projector mode)

Click [Cancel] if new connection cannot be established and keep current connection.



NOTE

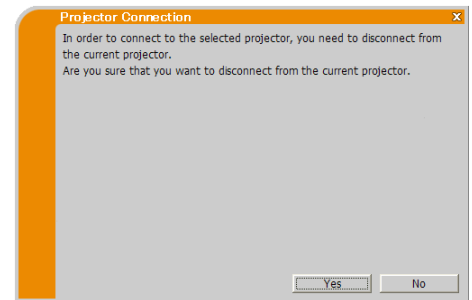
- Up to 12 projectors can be connected at the same time.
- When multiple projectors are connected to, the Multi Projector mode is selected automatically. (📖 28)
- "No" cannot be clicked when there are already 12 connected projectors.

Message 11: In order to connect to the selected projector, you need to disconnect from the current projector.

This message appears when the number of connected projectors exceeds the maximum number.

Click [Yes] if you disconnect the current connection. New connection is established.

Click [No] if new connection cannot be established and keep current connection.

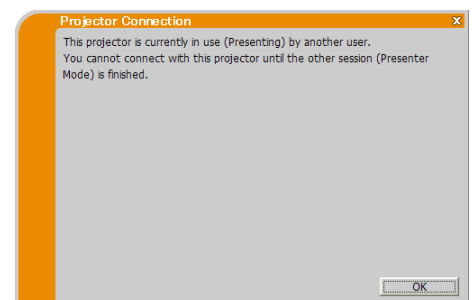


Message 12: This projector is currently in use (Presenting) by another user.

The projector you want to send your images to is occupied by another computer in the Presenter mode.

Click [OK], then the LiveViewer main menu is displayed in stand-by mode.

Retry to send your images, after the Presenter mode is off.

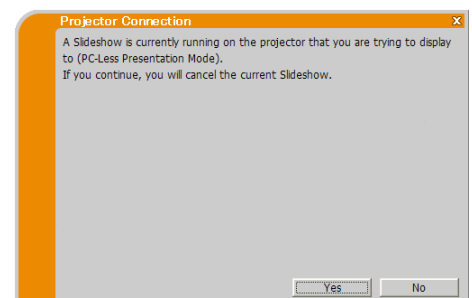


Message 13: A Slideshow is currently running on the projector that you are trying to display to (PC-Less Presentation Mode).

The projector you want to send your images to is in the Slideshow mode in the PC-LESS Presentation.

Click [Yes], then the projector will stop the Slideshow and switch the input port to MIU or LAN. Your computer starts image transmission.

Click [No], then the projector remains in the Slideshow mode, and the LiveViewer main menu is displayed in stand-by mode on your computer.

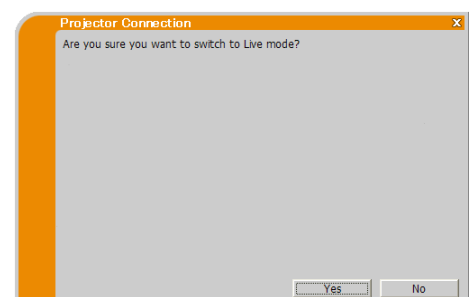


Message 14: Are you sure you want to switch to Live mode? (for Projector Models Group: B, C)

The projector is not set to Live Mode.

Click [Yes], and the projector is switched to the Live Mode.

Click [No], then the projector remains as it is, and the LiveViewer main menu is displayed in the stand-by mode on your computer.

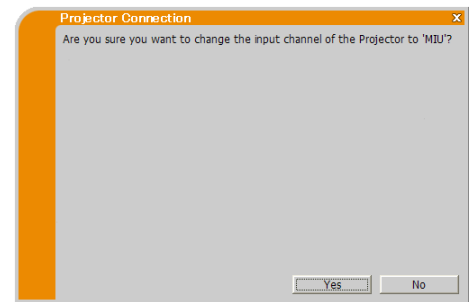


Message 15: Are you sure you want to change the input channel of the Projector to 'MIU'?
(for **Projector Models Group: B, C**)

The projector is not set to the MIU as an input signal.

Click [Yes], and the projector is switched to the MIU.

Click [No], then the projector remains as it is, and the LiveViewer main menu is displayed in the stand-by mode on your computer.

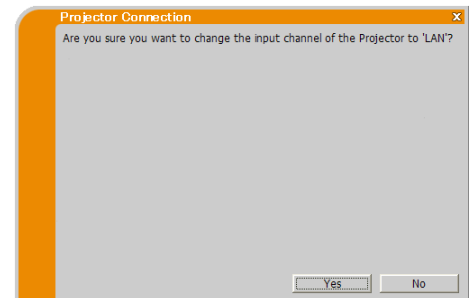


Message 16: Are you sure you want to change the input channel of the Projector to 'LAN'?
(for **Projector Models Group: D, E**)

The projector is not set to the LAN as an input signal.

Click [Yes], and the projector is switched to the LAN.

Click [No], then the projector remains as it is, and the LiveViewer main menu is displayed in the stand-by mode on your computer.

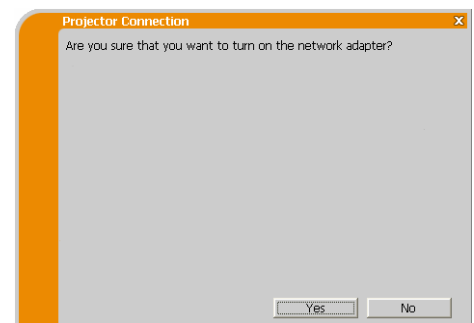


Message 17: Are you sure that you want to turn on the network adapter?

The screen is displayed in the case that the selected network adapter is invalid.

Click [Yes] to turn it on. Proceed to item “**3.2.5 Connection and transmission**”. (📖 24)


Click [No] to not turn it on. The screen is back to the previous one to select another network adapter.

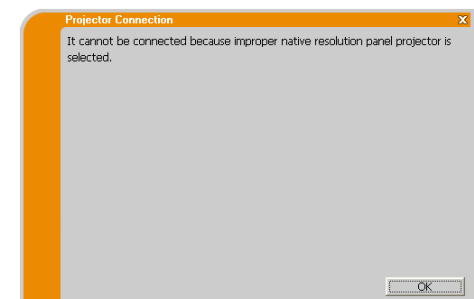


Message 18: It cannot be connected because improper native resolution panel projector is selected.

This message is displayed when the projectors with different native panel resolutions are trying to connect to same computer.

Click [OK], then the LiveViewer main menu is displayed even though the network connections with selected projectors are not established.

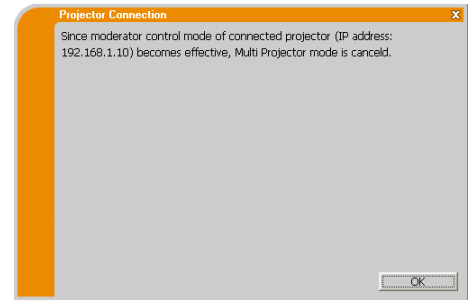
Click connect button  on the main menu to go back to “**3.2.2 Select Connection method**”. (📖 10)



Message 19: Since moderator control mode of connected projector (IP address: *.***.***.***) becomes effective, Multi Projector mode is canceled.**

This message appears when the Multi Projector mode is canceled, since Moderator Control mode of connected projector becomes effective by another computer.

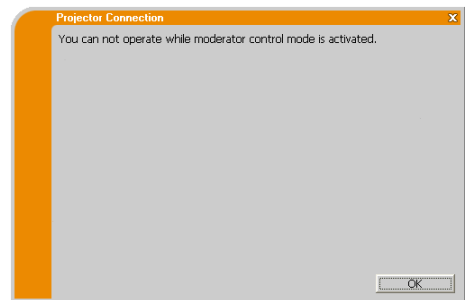
Click [OK], and the LiveViewer main menu is displayed.



Message 20: You can not operate while moderator control mode is activated.

The projector is occupied by another computer in the Moderator Control mode.

Click [OK], and the LiveViewer main menu is displayed.



B Troubleshooting for Projector Models Group: B, C

Problem			Likely Cause	Things to Check	Reference Page Number
No image			The projector is not turned on.	Is the projector's lamp on?	—
			The projector's input source isn't switched to MIU.	Is the projector switched to MIU?	—
Wireless / Wired	Live Mode	The projector that you want to connect to is not found on the list of available projectors	The computer and/or projector's network settings are not configured correctly.	Check the network configurations of the computer and projector. If you change the projector's settings, turn off the projector's AC power and then turn it on again. If you simply put the projector in standby power mode and then turn it on again, the new settings might not take effect.	18
			Weak radio signal	Bring the computer and projector closer together. Radio waves won't go through concrete and metal (steel doors, etc.)	—
			Firewall software other than Windows® Firewall is installed in your computer.	Refer to the manual for the firewall software and take one of the following actions: - Remove LiveViewer from blocking item list - Disable the firewall software while using LiveViewer	—
	Cannot communicate		The computer and/or projector's network settings are not configured correctly.	Check the network configurations of the computer and projector.	—
			The projector is not set to Live Mode.	Check the mode in the projector's MIU menu to make sure that it is in the correct mode.	26
			Cannot communicate due to configure wireless / encryption settings.	Use network utilities that may come with your computer or wireless LAN adapter to establish wireless network connection. For details refer to the manual of the computer or the adapter.	—
			Configuration network settings of LiveViewer may not be set correctly.	Be sure that the configuration settings of LiveViewer are correct for usage with your computer or wireless adapter.	—
			The wireless network utility software requires set up wireless LAN configuration of Windows®.	Use network utilities that may come with your computer or wireless LAN adapter to establish wireless network connection. For details, refer to the manual of the computer or the adapter.	—

Problem		Likely Cause	Things to Check	Reference Page Number	
Wireless / Wired	Live Mode	The projected image is rather slow compared to that of the computer	The projector isn't capable of relaying dynamic images such as PowerPoint® animation at full speed.	Switching the priority to 'Transmission Speed' under the option menu may help to improve speed.	34
			The compression rate being used for image transmission is too low.		
		No Image	Using Photo Gallery Slide Show in Windows Vista®.	LiveViewer cannot send computer screen data while using Windows Vista® Photo Gallery Slide Show. Please close Photo Gallery Slide Show before using LiveViewer.	—
			Using Photo Viewer Slide Show in Windows® 7.	LiveViewer cannot send computer screen data while using Windows® 7 Photo Viewer Slide Show. Please close Photo Viewer Slide Show before using LiveViewer.	—
		Images contain lots of interference.	The compression rate being used for image transmission is too high.	Try setting the priority to 'Image Quality' in the LiveViewer option menu. You may experience a drop in speed.	34
		Two cursors appear	Cursor of the computer and cursor of the projector are displayed in succession.	Turn off the 'Cursor Emulation' in the LiveViewer option menu.	34
		No cursor appears	Some computers may not display the cursor when using LiveViewer.	Turn on the 'Cursor Emulation' in the LiveViewer option menu.	34
		Neither transparency nor translucency effects (Glass)	LiveViewer does not support these features of Windows® Aero®.	Change the effect other than "Glass".	—
		Network connection between the computer and projector is disconnected when computer display resolution is changed during Network Presentation	The computer-projector network connection might be disconnected when computer display resolution is changed while displaying picture.	Please re-connect using connect button after changing computer display resolution, or change display resolution before connecting with LiveViewer.	29
		After you updated Operating System, the software performance becomes slower.	The capture driver may have been disabled due to updating process.	Uninstall LiveViewer, then install LiveViewer again.	—

C Troubleshooting for Projector Models Group: D, E

Problem		Likely Cause	Things to Check	Reference Page Number
No image		The projector is not turned on.	Is the projector's lamp on?	—
		The projector's input source isn't switched to LAN.	Is the projector switched to LAN?	—
Connection to the Network	The projector that you want to connect to is not found on the list of available projectors	The computer and/or projector's network settings are not configured correctly.	Check the network configurations of the computer and projector. If you change the projector's settings, turn off the projector's AC power and then turn it on again. If you simply put the projector in standby power mode and then turn it on again, the new settings might not take effect.	18
		Firewall software other than Windows® Firewall is installed in your computer.	Refer to the manual for the firewall software and take one of the following actions: - Remove LiveViewer from blocking item list - Disable the firewall software while using LiveViewer	—
	Cannot communicate	The computer and/or projector's network settings are not configured correctly.	Check the network configurations of the computer and projector.	18
		The projector input source isn't switched to LAN .	Is the projector switched to LAN ?	—
		An access point is used, and your computer is connected to the access point via wireless LAN.	Use network utilities that may come with your computer or wireless LAN adapter to establish wireless network connection. For details, refer to the manual of the computer or the adapter.	—
	Network Presentation	Using the Multi PC mode or the Multi Projector mode.	Use the Single PC mode.	27
		The projector isn't capable of relaying dynamic images such as PowerPoint® animation at full speed.	Switching the priority to 'Transmission Speed' under the option menu may help to improve speed.	34
		The compression rate being used for image transmission is too low.		

Problem		Likely Cause	Things to Check	Reference Page Number
Network Presentation	No Image	Using Photo Gallery Slide Show in Windows Vista®.	LiveViewer cannot send computer screen data while using Windows Vista® Photo Gallery Slide Show. Please close Photo Gallery Slide Show before using LiveViewer.	—
		Using Photo Viewer Slide Show in Windows® 7.	LiveViewer cannot send computer screen data while using Windows® 7 Photo Viewer Slide Show. Please close Photo Viewer Slide Show before using LiveViewer.	
		Poor communication between the computer and projector.	Click the stop capture button from the LiveViewer main menu to disconnect the computer and projector. Next, click the start capture button in the main menu to reconnect the computer and projector. If the projector still does not show any image (black screen), exit from LiveViewer and try again.	29
	Can't display movies correctly.	In some combinations of computer's video card and application software, there is a possibility that true image - especially movies played by media player - cannot be transferred to the projector with LiveViewer.	If there is a video acceleration level adjustment function in your application, please try to adjust it. For details, refer to the manual of your application.	—
	Images contain lots of interference.	The compression rate being used for image transmission is too high.	Try setting the priority to 'Image Quality' in the LiveViewer option menu. You may experience a drop in speed.	34
	Neither transparency nor translucency effects (Glass)	LiveViewer does not support these features of Windows® Aero®.	Change the effect other than "Glass".	—
	Cannot select Moderator Control mode.	Using Multi Projector mode.	Stop the Multi Projector mode.	32
		Other computer is already set to Moderator.	Cancel the current Moderator and select new Moderator.	33

Problem		Likely Cause	Things to Check	Reference Page Number
Network Presentation	No Audio	Audio is off.	Set “Sound” ‘On’ in the option menu of LiveViewer.	34
		Using the Multi PC mode or the Multi Projector mode.	Select Single PC mode.	32
		Audio not supported on some models.	Check the model name of the projector and group of the projector models. Audio transmission is available only for Projector Models Group: E .	5
		Mute or low volume is selected on the projector.	Check the audio settings on the projector.	—
		Mute or low volume is selected on your computer.	Check the audio settings on your computer.	—
		Poor communication between the computer and projector.	Once set ‘Off’ the “Sound” in the option menu of LiveViewer, then set it ‘On’ again. If the projector still does not produce any sound, restart LiveViewer.	34
		If audio output cannot be obtained even though above countermeasures are applied, install LiveViewer again.		7

Problem		Likely Cause	Things to Check	Reference Page Number
Network Presentation	Sound interruption	The computer is connected to or disconnected from peripheral equipment with HDMI™ cable, so that the audio configuration on the computer is changed while using LiveViewer.	Please restart LiveViewer.	10
		When multiple computers are communicating with the projector, low communication band between the computers and the projector makes data transfer rate lower and may interrupt the sound.	Please check your network connection.	—
		<p>USB equipment (USB storage device, USB wireless adapter, or others) is connected to USB TYPE A port of the projector.</p> <p>Sound might be interrupted till the firmware of the projector transacts driver embedding that starts just after insertion of the device.</p> <p>In addition, sound may be interrupted while the USB wireless adapter is searching SSID. The adapter searches SSID repeatedly until wireless communication is established.</p>	<p>Wait for a while. Transaction of embedding driver takes up to 30 seconds.</p> <p>Check following items in NETWORK - WIRELESS SETUP menu of the projector, too if you inserted USB wireless adapter. Refer to the User's Manual of the projector for the details of WIRELESS SETUP menu.</p> <p>WIRELESS SETUP confirmation items</p> <ul style="list-style-type: none"> - MODE - ENCRYPTION - SSID <p>Please disconnect the USB wireless adapter when the access point or computer connected to is not working or wireless LAN is not used.</p> <p>Even though the issue is not resolved, reconnect LiveViewer.</p>	—

Problem		Likely Cause	Things to Check	Reference Page Number
Network Presentation	Noise comes from the speakers in the projector even though computer does not output sound.	Mute function in audio playback software like Windows® Media Player is used.	When computer does not output audio, making LiveViewer “Sound” ‘Off’ decreases noise.	34
		USB equipment (USB storage device, USB wireless adapter and so on) is connected to USB TYPE A port of the projector.		
			Iris feature of the projector is activated.	When computer does not output audio, making LiveViewer “Sound” ‘Off’ decreases sound noise. When active iris is not used, set “ACTIVE IRIS” to “OFF” using projector menu. Refer to the User’s Manual of the projector for the detail of “ACTIVE IRIS”.
Others - Information displayed in the screens of LiveViewer is incorrect. - The projector does not respond. - Image on screen is frozen.		Communication between the projector and computer is not working well. Network functions of the projector are not working well.	Click the stop capture button from the LiveViewer main menu to disconnect the computer and projector. Next, click the start capture button in the main menu to reconnect the computer and projector. If the projector image is still frozen, exit from LiveViewer and try again.	29