

LiveViewer for Mac OS User's Manual

Hitachi Consumer Electronics Co., Ltd.

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1 Compatibility

1.1 Minimum PC hardware and software requirements

OS	Mac OS 10.5(Intel) Mac OS 10.6(Intel) Mac OS 10.7(Intel) Mac OS 10.8(Intel) This application software is not available for PowerPC.
CPU	1.8GHz or higher Intel Core processor
Display	VGA 640x480 or higher 65,536 simultaneous colors or higher
Available Hard Disk Space	100MB or higher
Web browser	Safari® (4.0 or higher)
Ethernet port	

NOTE

- *Improper OS version or driver software for Network Adaptor on your PC 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 PC you are using, the projector may not be able to communicate properly with your PC, even if the PC you are using is equipped with built-in wireless LAN functionality. If communication problems occur, please use a Wi-Fi certified wireless network device.*
- *Your PC needs to meet the minimum hardware requirement of your OS.*
- *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 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 for Mac OS" and the latest information for this product from our website.*
- *Depending on the specification of your computer, the computer may slow down due to high CPU usage when the "LiveViewer for Mac OS" is running.*
- *If any additional application software having a firewall function is installed into your PC, disable the firewall function (check your software manual for additional instructions).*
- *Set your PC resolution to XGA or less. Refer to the user manual for your Macintosh. If it is larger than XGA, the transmission speed will be reduced*

1.2 Supported Projector

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 for Mac Version	Group of Projector Models		
	Group D	Group E	Group F
	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.	CP-X2015WN CP-X2515WN CP-X3015WN CP-X4015WN CP-WX2515WN CP-WX3015WN and etc.
1.00	✓	-	-
1.01	✓	✓	-
1.10	✓	✓	✓

1.3 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-dm.cn/>

<http://www.hitachi.co.jp/proj/>

2 Starting with “LiveViewer”

This section explains the process of using the “LiveViewer for Mac”. The outline of the process is as follows:

1. Install the “LiveViewer” application (📖 5)

2. Connect to the network (📖 6)

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

- Passcode connection
- Manual connection
- History record connection
- Select projector



Fig. 2.a LiveViewer Main menu

3. Select the projector (📖 13)

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

4. Start Network Presentation (📖 14)

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

2.1 Install “LiveViewer”

In order to use the “LiveViewer”, you first need to install the “LiveViewer” onto all PCs that you want to connect to your network projector.

1. Download the “LiveViewerForMacOS_vxxxxxx.dmg”.
2. “LiveViewerForMacOS” disk image will appear.
3. Double click the “LiveViewerForMacOS_vxxxxxx.pkg” icon inside the “LiveViewerForMacOS” disk image.
4. Installation begins. Follow the instructions on screen and install the software.

“x” in the version means 0 or greater.

NOTE

When a window for inputting a [Name] and [Password] appears, input the [Admin (administrator)]’s name and password.

2.2 Connect to the network

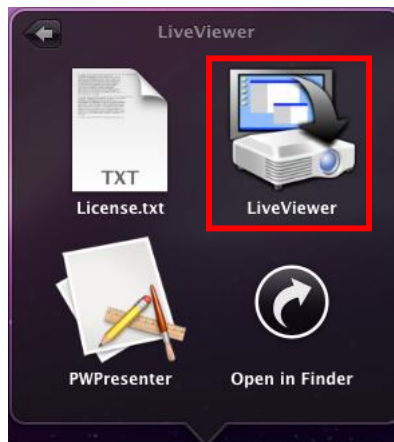
“LiveViewer” provides several options for connecting to your network projector. You can choose one that best meets your system and user needs.

NOTE

- Up to 30 computers can be simultaneously connected to the projector through a network.

2.2.1 Launch “LiveViewer”

To start the “LiveViewer” software on your PC, Double click the “LiveViewer” icon in your PC.

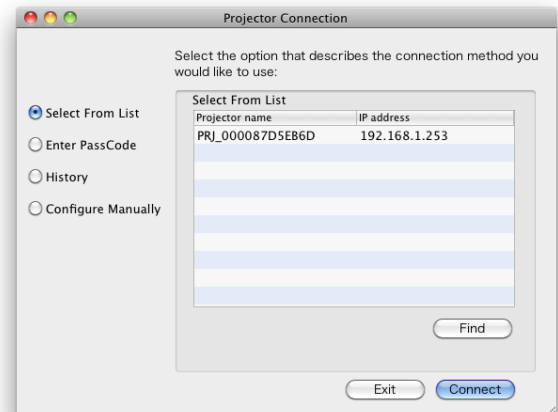


2.2.2 Configure network parameters

There are several options to configure network parameters on your computer.

- Select from List
- Enter Passcode
- History
- Configure manually

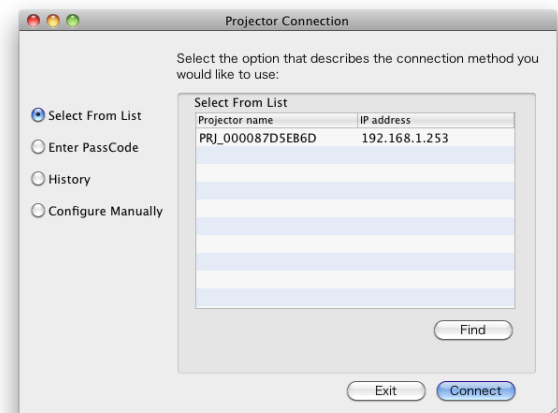
Select the method that best meets your requirements.



2.2.3 Select From List

Before selecting this item, your PC and network projectors need to be connected to the same network. If the connection is already established, choose [Select From List]. A list of the projectors connected to the network will appear. Select which projector you would like to send your images to.

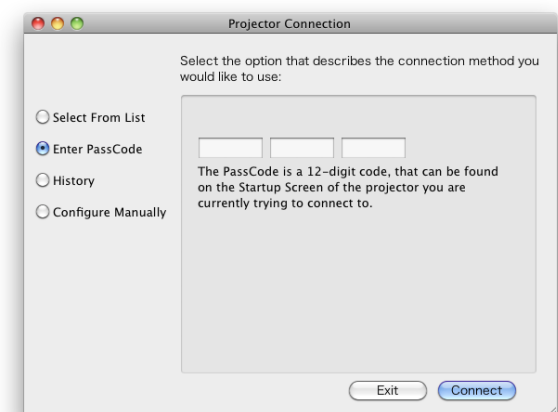
Proceed to the “2.5 Select the projector”. (📖 13)



2.2.4 Enter Passcode

Select “Enter PassCode”. Then enter the Passcode and click the [Connect].

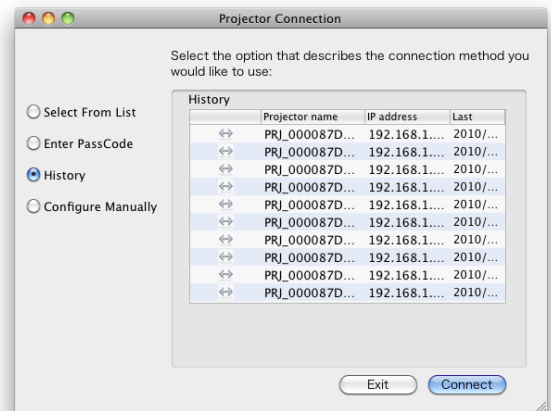
Refer to the item “2.3 Passcode”. (📖 9).



2.2.5 History connection

Select History data to connect to the network projector. It is required to store the History data in advance.

- ✓ Select the projector 'History' listed in the window.
- ✓ Click [Connect]
- ✓ Proceed to the item “2.5 Select the projector”. (📖 13)

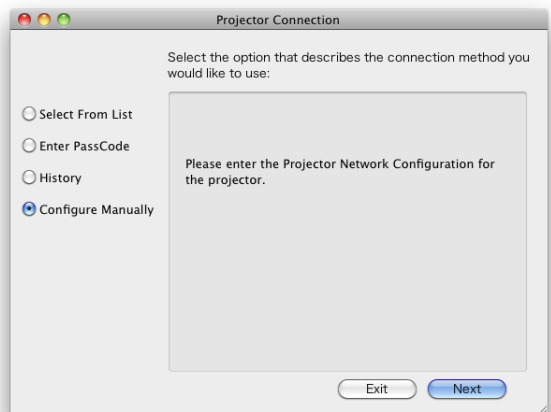


NOTE

- The number of the history record is maximum 10 for each network adapter. When the 11th data is stored, the oldest record among the 10 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 on in the projector, the network connection between the projector and computer may not be established since IP address may be varied.

2.2.6 Configure manually

Select “Configure manually” and click [Next]. Proceed to the item “2.4 Configure Network Setting Manually”. (📖10) .



2.3 Passcode

The unique Passcode system brings you a very quick and simple method for connecting to your network projector. The Passcode is a code that contains the network settings of the projector. When you input the Passcode in the “LiveViewer” on your PC, the network settings of the projector and PC are matched and the connection will be established immediately. The section is intended to explain how to use the Passcode.

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.

Example: Passcode 1234-5678-9ABC

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 displayed on screen.
- ✓ Press the source button on the remote control or the 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 displayed on screen.
- ✓ Press the MENU button on the remote control or the ▲/▼/◀/▶ buttons on the projector to show the on screen menu.
- ✓ Use the ▲/▼ cursor buttons to select the Advanced Menu, and use the ▶ cursor button to enter.
- ✓ Use the ▲/▼ cursor buttons to select NETWORK, and use the ▶ cursor button to enter.
- ✓ Use the ▲/▼ cursor buttons to select the Network Info, and use the ▶ cursor button to display the Network Info.
- ✓ The Passcode appears at the top right corner in the Network Info window.

NOTE

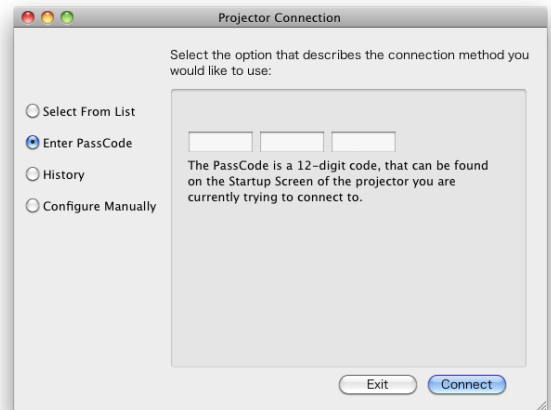
- *The Passcode system does not work under the conditions below. If your system meets one of these conditions, please set the connection manually.*
 - Subnet mask is not Class A or B or C.*
 - The Passcode system accepts Class A, B and C only.*
 - Class A:(255.0.0.0), Class B:(255.255.0.0), Class C:(255.255.255.0)*
- *Use Method 2, when you project your computer image by the "LiveViewer for Mac", or when the LAN port is not selected as the input signal.*
- *If there is no communication between the network projector and PC in 5 minutes, the Passcode will be changed.*

2.3.2 Entering the Passcode

Simply input the Passcode (12-digits divided by 3 boxes).

Example: PASSCODE 1234-5678-9ABC

- ✓ Enter the Passcode
- ✓ Click [Connect]
- ✓ Proceed to the item “2.5 Select the projector”.
(📖 13)



NOTE

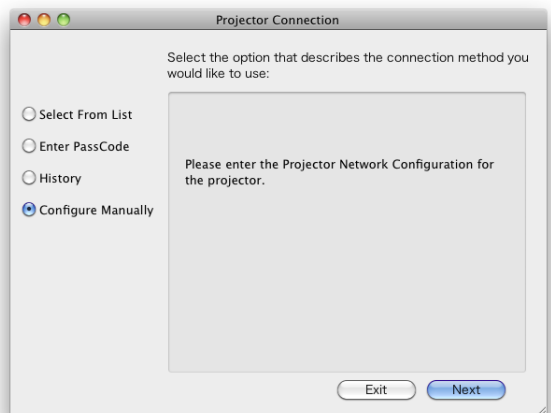
- When entering the Passcode, capital and small letters are not distinguished.

2.4 Configure Network Setting Manually

All setting for the network connection between the projector and PC is input manually.

- ✓ Click the [Next].

The information to be input for a manual configuration will vary, depending on how you want to connect the projector and PC.



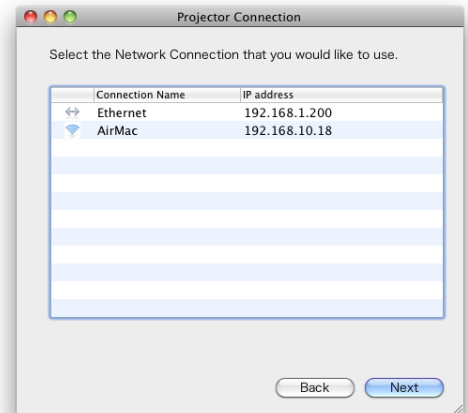
Wired LAN

If you use the wired LAN, proceed to the item “2.4.1 Wired LAN”. (📖11).

Wireless LAN

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

- The projector connected to an access point by a LAN cable. “2.4.2 Wireless LAN”. (📖12).



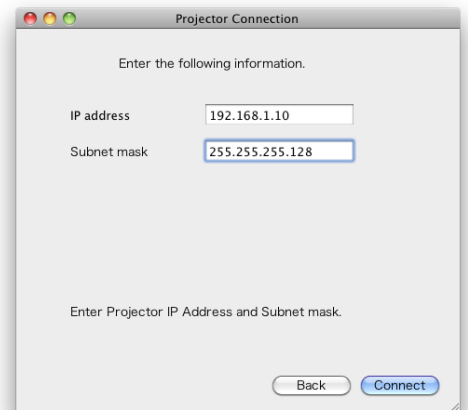
2.4.1 Wired LAN

- ✓ Enter the following information for the projector. *1

IP address: **192.168.1.10(example)**

Subnet mask: **255.255.255.128 (example)**

- ✓ Click [Connect]
- ✓ The network connection will be established.
- ✓ Proceed to the item “2.5 Select the projector”. (📖13)



NOTE

- *1 To find the network setting on the projector, refer to the NOTE. (📖)

2.4.2 Wireless LAN

- ✓ Settings of the access point^{*1}. Enter the following information.

SSID: **WirelessAccessPoint (example)**

Encryption: **WEP (example)**

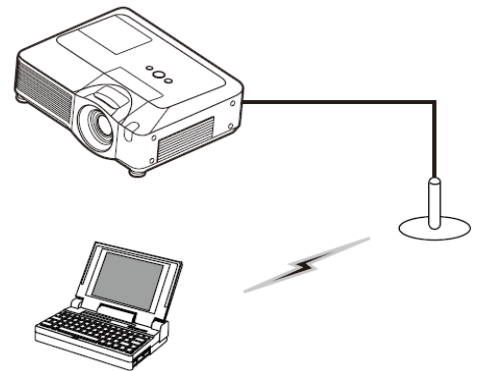
Encryption key^{*2}: **●●●●●●●● (example)**

Mode: **INFRASTRUCTURE**

IP Address: **192.168.1.10 (example)**

Subnet mask: **255.255.255.0 (example)**

- ✓ Click [Connect].
- ✓ The wireless connection will be established.
- ✓ Proceed to the item “2.5 Select the projector”.
([13](#))

A screenshot of a software window titled "Projector Connection". The window contains two sections: "Access Point" and "Projector". The "Access Point" section has fields for SSID (WirelessAccessPoint), Encryption (WEP), Encryption key (a series of dots), and Mode (Infrastructure). Below these fields is a label "Enter Wireless Access Point Configuration information.". The "Projector" section has fields for IP address (192.168.1.10) and Subnet mask (255.255.255.0). Below these fields is a label "Enter Projector IP Address and Subnet mask.". At the bottom right of the window are "Back" and "Connect" buttons.

NOTE

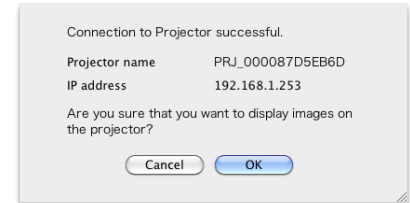
- ^{*1} Contact your network administrator for the proper access point settings.
- ^{*2} If you are using encryption, you need to input the encryption key. Contact your network administrator to find the encryption key that is set in the projector. The encryption key is always shown as “●●●●●●●●”.
- ^{*3} To find the network setting on the projector, refer to the NOTE. ([19](#))

2.5 Select the projector



2.5.1 Connection and transmission

When the network connection is established, the “Connection to Projector successful” screen is displayed. Make sure that the correct projector that you want to send your image to is selected, by checking the projector name and IP address as shown in the screen.

To send images to the projector, click [OK]. The transmission will be started. In order to display the transmitted images to the projector, it is first required that you:



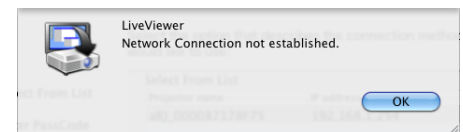
- ✓ Select the LAN port as input source on the projector

Refer to the item “3 Start “LiveViewer”” (15). If you select [Cancel], the “LiveViewer for Mac” main menu is displayed in Stand-by mode. (Stand-by mode is the condition when the wireless connection is established, but the images are not transmitted.) The transmission can be started by clicking the  or  button on the “LiveViewer for Mac” main menu.

2.5.2 Connection error

When connection to the projector can not be established, an error message, “Network Connection not established”, will be displayed.

Click [OK], to display the “LiveViewer” main menu.)



2.6 Starting the Network Presentation

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

The “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.

To start the Network Presentation, select the **LAN** port as the input source on the projector and click the Starting Capture button on the “LiveViewer for Mac”.

2.6.1 Display Mode

There are two display modes, Single PC mode and Multi PC mode.

- Single PC mode

The projector displays images sent by one PC.

- Multi PC mode

The projector screen is divided to 4 zones. The projector displays images of an individual PC in each zone, allowing the projector to display images of up to 4 PCs at the same time.



2.6.2 Presenter mode

In the Single PC mode, the projector can be occupied by one PC and can block access from any other PC (if Presenter mode is set to ON in “LiveViewer for Mac”). 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 PC. Presenter mode can be set to ON in the Option menu in the “LiveViewer for Mac” Main menu.

2.6.3 Display User Name

A User Name can be set in “LiveViewer for Mac”, which will be displayed on screen while presenting. This makes it easy to keep track of whose image is currently displayed on screen.

3 Start “LiveViewer”

Once you have established a connection between your network projector and PC, the “LiveViewer for Mac” main menu will be shown on the PC screen. From the main menu you can configure settings and operate the functions needed to send images to the projector.

3.1 Main menus and operating buttons

3.1.1 Menu Type

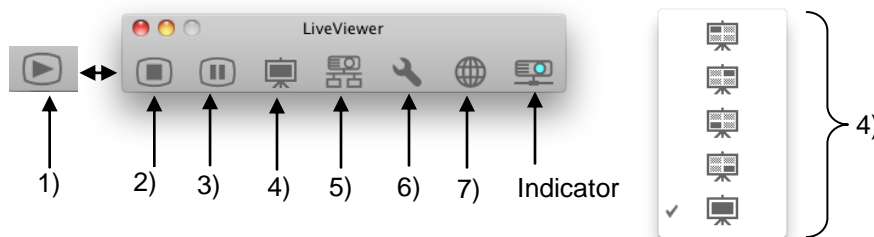


Fig. 3.b “LiveViewer for Mac” Main Menu

3.1.2 Menu button

1) Start Capture button

The transmission to the network projector is started and images will be displayed. The initial Display mode is Single PC mode.

2) Stop Capture button

The transmitted image is stopped.

NOTE

- Images may not be displayed on screen, if the Start/Stop 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. This allows you to change the image data on your PC without showing it on the projector’s screen.

4) Display mode button (🖥️17)

It allows you to switch between Single PC mode and Multi PC mode.

5) Connect button

The screen to select the connection mode is displayed. Go to the item "2.2.2 Configure network parameters" (📖 7)

6) Option button





The option screen is displayed.

7) Web control button

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

3.1.3 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 PC are being sent to the projector. The indicator is blinks while the connection is in progress.
	Disconnected	The network connection to the projector is disconnected.

NOTE

- The status display is refreshed in every 3 seconds.
- If status cannot be gotten from the projector, it will not be refreshed.

3.1.4 Multi PC display mode

“LiveViewer” has both Single PC mode and Multi PC display modes. These modes can be switched from the main menu.

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

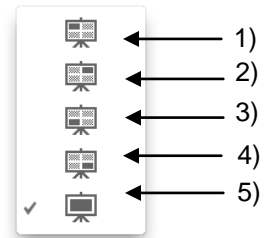
Select from 1) to 4) buttons, and click it.


1) – 4) Multi PC mode:

Your image is displayed on a quarter screens as identified by the icon


5) Single PC mode:

Your image is displayed full screen.



- ✓ The projector screen is switched to the mode selected above, and your PC image will be displayed on the screen.
- ✓ The icon  on the main menu is replaced by the icon you selected.

NOTE

- Image transmission is stopped when: you click the Single mode button while the projector is in the Single PC mode or you click one of the Multi mode buttons while the projector is in the Multi PC mode
- When Multi PC mode is selected, the projector screen is automatically divided to 4 zones.
- When the Presenter mode is enabled in Single PC mode, the  button will be ignored if you have not the right to controll Presenter mode (someone is in the Presenter mode).
- If someone occupied one of quarter screen section and you select that section, the previous occupant will put into the background and switch over the section to you.

3.1.5 Optional settings

Clicking the Option button displays the option menu on screen.

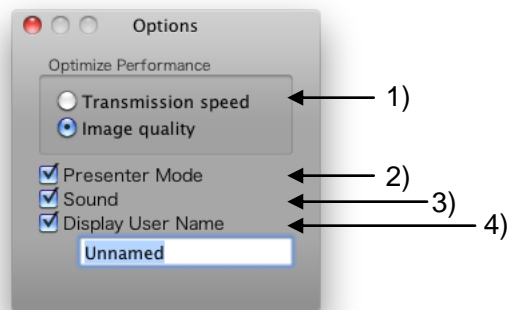


Fig. 3.c Option Menu

1) Optimize Performance

“LiveViewer for Mac” captures PC screen in JPEG mode and send the JPEG data to the projector. “LiveViewer for Mac” has two options that have different compression rate of JPEG data.

Transmission speed: Speed takes priority over Image quality. JPEG compression rate is higher. The displayed image on the projector is rewritten quicker because the transferred data is more compressed, but the image quality is lessened.

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

2) Presenter Mode

In Single PC mode, the projector can be occupied by one PC and can block access from any other PC, if the Presenter mode is set to ‘On’ in “LiveViewer for Mac” 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 PC. If you want to use Presenter Mode, put a check mark in the check box.

NOTE

- When Multi PC mode is selected, the setting for the Presenter mode is invalid.
- When switching from Multi PC mode to Single PC mode, Presenter mode setting of the PC is valid.
- The default setting is ‘ON’.

3) Sound(only for **Projector/Switcher Models Group: E, F**)

If the check box is selected, audio transmission is valid.

4) Display User Name

A user name (up to 20 letters) can be input by using alphanumeric characters. The user name can be displayed on the projector screen, so it’s easy to tell whose image is currently on the screen. If the check box is not selected, the information is not sent to the projector.

Appendix

A Messages

Message 1: A network connection was not established

This screen is displayed in the case that the projector is not connected with a LAN cable to your PC (when wired LAN is selected). Be sure that the projector is connected with a LAN cable to your PC. Click [OK], and you will be returned to the previous screen (select the network connection mode).



The Projector has already reached the maximum number of Network Connections. The projector can connect up to 5 PCs at the same time.

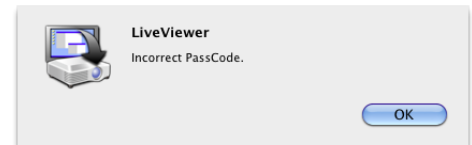
- ✓ Click [OK], the “LiveViewer” main menu is displayed.

Please retry after disconnecting one of the connected PC's

Message 2: Incorrect Passcode

An incorrect Passcode was input.

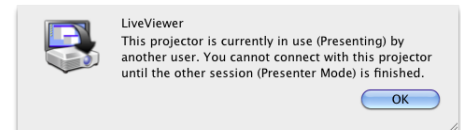
- ✓ Click [Back] to return to the “Enter Passcode” screen.
- ✓ Check the Passcode on the projector screen and enter the code again.



Message 3: The projector is currently in use with another user.

The projector you want to display to is occupied by another computer in the Presenter mode.

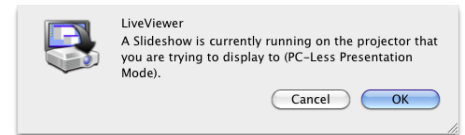
- ✓ Click [OK], then the “LiveViewer for Mac” main menu is displayed in stand-by mode.
- ✓ Once the Presenter has finished, retry to send your images.



Message 4: A Slideshow is currently running on the projector that you are trying to display to.

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

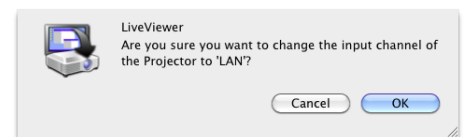
- ✓ Click [Yes], then the projector is switched from the Slideshow mode to the Live mode.
- ✓ Click [No], then the projector remains in the Slideshow mode, and the “LiveViewer for Mac” main menu is displayed (Stand-by mode) on your PC.



Message 5: Are you sure you want to change the input channel of the Projector to 'LAN'?

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

- ✓ Click [Yes], and the projector is switched to the LAN.
- ✓ Click [No], and the projector will remain as is, the “LiveViewer for Mac” main menu is displayed in the Stand-by mode on your PC.



B Troubleshooting

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/switcher's input source isn't switched to LAN.	Is the projector/switcher switched to LAN?	-
		The input source of the projector that is connected to switcher is not set to HDMI.	Is the projector connected to the switcher set to HDMI?	-
Connection to the Network	The projector/switcher that you want to connect to is not found on the list of available projectors/switchers	The computer and/or projector/switcher's network settings are not configured correctly.	Check the network configurations of the computer and projector/switcher. If you change the projector/switcher's settings, turn off the projector/switcher'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.	エラー! ブックマークが定義されていません。
	Cannot communicate	The computer and/or projector/switcher's network settings are not configured correctly.	Check the network configurations of the computer and projector/switcher.	-
		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	The projected image is rather slow compared to that of the computer	Using the Multi PC mode.	Use the Single PC mode.	17
		The projector/switcher isn't capable of relaying dynamic images.	Switching the priority to 'Transmission Speed' under the option menu may help to improve speed.	18
		The compression rate being used for image transmission is too low.		

Problem		Likely Cause	Things to Check	Reference Page Number
Network Presentation (continued)	No Image	Poor communication between the computer and projector/switcher.	Click the stop capture button from the LiveViewer main menu to disconnect the computer and projector/switcher. Next, click the start capture button in the main menu to reconnect the computer and projector/switcher. If the projector/switcher still does not show any image (black screen), exit from LiveViewer and try again.	15
	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.	18

Problem		Likely Cause	Things to Check	Reference Page Number
Network Presentation (continued)	No Audio	Audio is off.	Set “Sound” ‘On’ in the option menu of LiveViewer.	18
		Using the Multi PC mode or the Multi Projector/Multi Display mode.	Use the Single PC mode.	17
		Audio not supported on some models.	Check the model name of the projector/switcher and group of the projector/switcher models. Audio transmission is available only for Projector/Switcher Models Group: E, F.	4
		Mute or low volume is selected on the projector/switcher.	Check the audio settings on the projector/switcher.	-
		Mute or low volume is selected on your computer.	Check the audio settings on your computer.	-
		Poor communication between the computer and projector/switcher.	Once set ‘Off’ the “Sound” in the option menu of LiveViewer, then set it ‘On’ again. If the projector/switcher still does not produce any sound, restart LiveViewer.	18
		If audio output cannot be obtained even though above countermeasures are applied, install LiveViewer again.		-

Problem		Likely Cause	Things to Check	Reference Page Number
Network Presentation (continued)	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.	-
		When multiple computers are communicating with the projector/switcher, low communication band between the computers and the projector/switcher 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/switcher.</p> <p>Sound might be interrupted till the firmware of the projector/switcher 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/switcher, too if you inserted USB wireless adapter. Refer to the User's Manual of the projector/switcher 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 (continued)	Noise comes from the speakers in the projector or those attached to the switcher even when computer does not output sound.	Mute function in audio playback software is used.	When computer does not output audio, making LiveViewer “Sound” ‘Off’ decreases noise.	18
		USB equipment (USB storage device, USB wireless adapter and so on) is connected to USB TYPE A port of the projector/switcher.		
			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/switcher does not respond. - Image on screen is frozen.		Communication between the projector/switcher and computer is not working well. Network functions of the projector/switcher are not working well.	Click the stop capture button from the LiveViewer main menu to disconnect the computer and projector/switcher. Next, click the start capture button in the main menu to reconnect the computer and projector/switcher. Even though the issue is not resolved, reconnect LiveViewer.	-