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Multimedia Projector

EasyMP Network Projection Operation Guide

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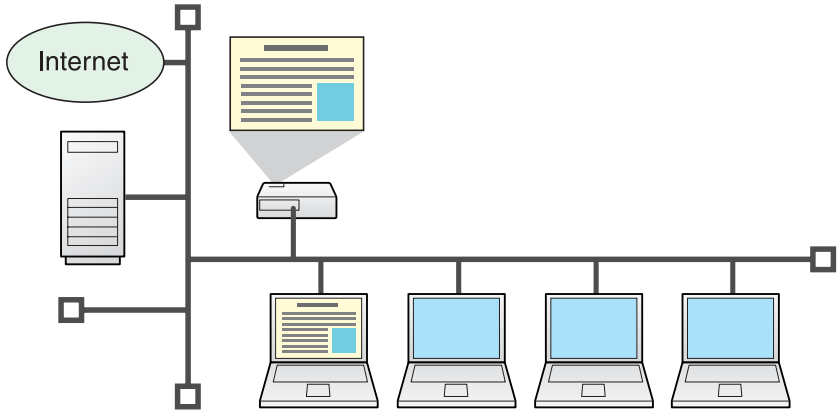
Before Use

This chapter describes useful functions for EasyMP Network Projection and how to install the software.

Functions of EasyMP Network Projection

You can use EasyMP Network Projection to project your computer screen from the projector via a network. Sharing the projector over the network and using various screen transfer functions allow you to hold effective meetings and presentations



Sharing the Projector

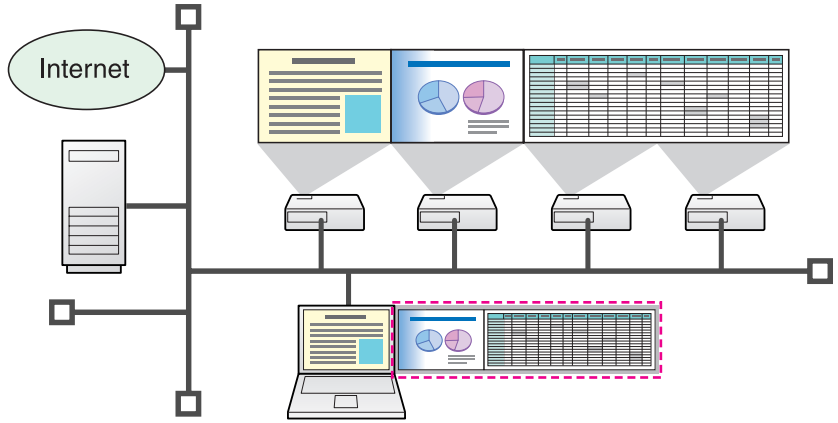
If the projector is connected to a network, you can share the projector from computers on the network. When projecting data from different computers during a meeting or presentation, you can progress smoothly without changing the signal cable between each computer.
Even a distance between the projector and the computer does not cause any problems.

Various Screen Transfer Functions

You can use the following screen transfer functions.

- Multi-screen display ☛ p.26

  You can project different images from up to four projectors from one computer, allowing you to project landscape images such as spreadsheets as one continuous image.



- Movie file transfer (Movie Sending Mode) ☛ p.24

  You can send movie files directly to the projector to play them back. This enables smooth movie playback.

- Audio transfer

  You can play back by transferring the computer's audio to the projector when you are connecting to a single projector.

- Presentation Mode ☛ p.23

  Presentation Mode lets you project a PowerPoint slide show. You can give stylish presentations by projecting a black screen while making preparations and not displaying the slide show.

- Distribution function

  The screen being displayed by a remote computer can be simultaneously displayed by up to four projectors on the same network.

- Switching function

  By using the meeting switching function, if EasyMP Network Projection is installed on all of the computers, the presenters can take turns and project their own images without changing cables.

Installing the Software

The EasyMP Network Projection software is contained in the supplied EPSON Projector Software CD-ROM. Install the software on the computer you are using.

Software Requirements

EasyMP Network Projection runs on computers that meet the following requirements.

OS	Windows series (32-bit versions only) • Windows 2000 (Service Pack 4) • Windows XP • Windows XP (Service Pack 1 or later) • Windows Vista • Windows Vista (Service Pack 1 or later) • Windows 7
	Mac OS X series • Mac OS X 10.3.x • Mac OS X 10.4.x • Mac OS X 10.5.1 or later* • Mac OS X 10.6.x Recommended: Mac OS X 10.3.9/10.4.11/10.5.5
CPU	Mobile Pentium III 1.2GHz or faster Power PC G3 900MHz or faster Recommended: Pentium M 1.6GHz or faster CoreDuo 1.5GHz or faster
Amount of Memory	256MB or more Recommended: 512MB or more
Hard Disk Free Space	20MB or more
Display	Resolution of no less than XGA (1024x768) and no higher than UXGA (1600x1200) Display color of 16-bit color or greater (approx. 32000 display colors)

* Operation is not guaranteed in Mac OS X 10.5.0 because the Firewall settings are not set correctly when the version is updated.

Installing

Make sure you check the following points before starting installation.

- When using a computer running Windows, you must have administrator authority to install EasyMP Network Projection.
- Make sure that you close all running applications before starting installation.
- When the language selected for the installation varies from that of the OS being used, the screens may not be displayed correctly.

For **EMP NS Connection users**

The EMP NS Connection name has changed.

Before change: EMP NS Connection

After change: EasyMP Network Projection

When using the same function as EMP NS Connection on the projector, install EasyMP Network Projection after uninstalling EMP NS Connection. You cannot connect to the projector correctly using EMP NS Connection.

Procedure

For Windows

1 Turn on your computer.

2 Insert the EPSON Projector Software CD-ROM into the computer.

The installer starts automatically.

3 Follow the on-screen instructions to install the software.

When the window to add or remove EPSON Virtual Display appears, click OK. To use Multi-screen display you need to setup EPSON Virtual Display. If you do not want to set it up now, you can do so later. ☛ p.28

For Mac OS

1 Turn on your computer.

2 Insert the EPSON Projector Software CD-ROM into the computer.

3 Double-click the "Install Navi" icon in the EPSON window.

Installation starts.

4 Follow the on-screen instructions to install the software.

- *When installation does not start automatically (Windows only)*
  Open the CD-ROM drive folder from My Computer or Computer and double-click the InstallNavi icon.
- *Uninstalling*

  For Windows

  *Select **Start** - **Settings** - **Control Panel** - **Add-Remove Programs** or **Add or Remove Programs** and then remove EasyMP Network Projection.*

  For Mac OS

  *From **Applications**, delete the EasyMP Network Projection folder.*

EasyMP Network Projection Summary

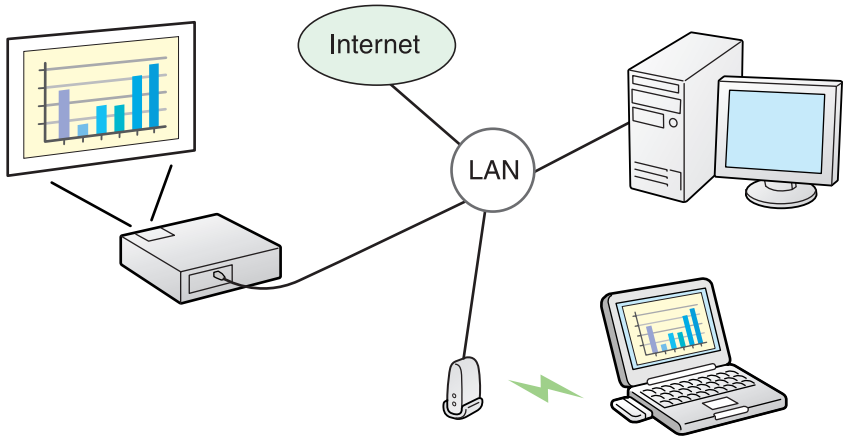
This chapter explains how to connect the computer and the projector via a network, and the procedure for projecting images from your computer's screen with the projector.

Two Connection Modes

There are two methods of connecting a computer and the projector via a network by using EasyMP Network Projection.

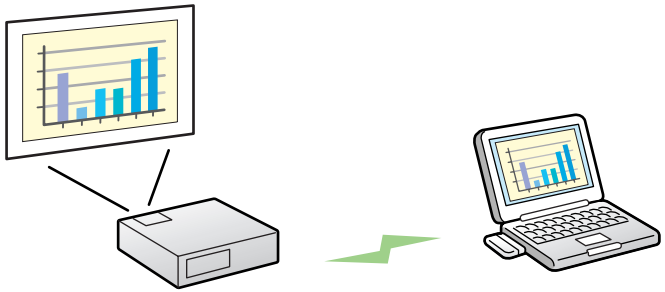
Advanced Connection Mode

Advanced Connection Mode is an infrastructure connection, and connects to an existing network system.
When connecting to a network via Wired LAN, connect the projector to the network hub with a commercially available LAN cable.
If you install the optional Wireless 802.11g/b/a Module in the projector, you can connect to the network via a wireless LAN access point.



Quick Connection Mode (Only when the Optional Wireless 802.11g/b/a Module is installed)

Quick Connection Mode only runs when you install the optional Wireless 802.11g/b/a Module in the projector.
Quick Connection Mode temporarily assigns the projector's SSID to a computer creating an ad hoc connection, and restores the computer's network settings after disconnecting. ☛ p.13



- You can easily connect to a computer and project images from the computer without making network settings.
- This lets you connect easily without a connector cable, and you can even connect if the projector and the computer are at remote locations.

Steps for Connecting

Use the following steps to connect the computer to the projector and project in EasyMP Network Projection.

You need to perform steps 1 to 4 only the first time you connect.

1. Install EasyMP Network Projection on the computer to be connected. ☛ p.8

2. Make sure your computer is connected to the network. ☛ p.13

3. **For Quick Connection Mode:** Install the optional Wireless 802.11g/b/a Module.

   For Advanced Connection Mode: Enable the Wired LAN or Wireless LAN adapter in Port Configurations. See your computer's documentation for more information.

4. Select network settings on the projector and connect it to the network. See your *User's Guide* for more information.

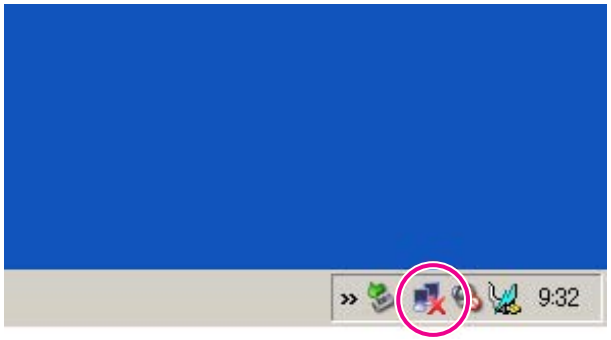
5. Start EasyMP Network Projection on the computer and connect with the projector. ☛ p.14

Preparing to Connect

Use the following procedure to set up the computer for connection.

For Windows

Make network settings for the computer by using the utility software supplied with the LAN adapter. For more information on the utility software, see the User's Guide supplied with your LAN adapter.
For example, as shown in the following illustration, when a red cross (×) is displayed over the network icon on the taskbar, you cannot connect to the projector.



For Mac OS

Set the network port and communication status. For more details on setting the communication status, see the User's Guides for your computer or the AirPort card.

Operating the Projector

Before connecting, put the projector into connection standby status. Make sure the projector network settings are complete, and the projector is connected to network equipment such as a network hub via a commercially available network cable.

Procedure

1. **Press the [⏻] button on the remote control to turn the power on.**

2. **Switch the projected image to LAN. See your User's Guide for more information.**

   The LAN standby screen is displayed.

An event ID will be displayed as shown below if problems occur while connecting.

Event ID : 04xx

See your *User's Guide* for information on interpreting the Event ID.

Operating the Computer

In the following explanations, unless otherwise noted, Windows screen shots are used. Similar screens are displayed for Mac OS.

Procedure

1. **Start EasyMP Network Projection.**

   For Windows

   Select **Start** - **Programs** (or **All Programs**) - **EPSON Projector** - **EasyMP Network Projection** - **EasyMP Network Projection V2.XX**.

   For Mac OS

   Double-click the Applications folder of the hard drive volume in which EasyMP Network Projection is installed, and then double-click the EasyMP Network Projection icon.

2. **Select "Quick Connection Mode" (only available when the optional Wireless 802.11g/b/a Module is installed) or "Advanced Connection Mode", and then click "OK."**

   The projector search results are displayed. To always connect using the same Connection Mode, select **Set the selected Connection Mode as the default mode for future connections.**

3 **Select the projector you want to connect to, and then click "Connect".**

If the projector you want to connect to is not displayed in the search results, click the **Automatic search** button. The search takes about 30 seconds.
For details on the connection screen, see "Using the Connection Screen". ☛ p.16

In Quick Connection Mode, you can only select multiple projectors with the same SSID.

You cannot connect to multiple projectors if a projector is selected for which **Automatic** is displayed for the SSID.

4 **When Projector Keyword is set to "On" from the projector, the Keyword entry screen is displayed. Enter the keyword displayed on the LAN standby screen, and then click "OK".**

When the connection is complete, the computer screen is projected. The following EasyMP Network Projection toolbar is displayed on the computer screen. You can use this toolbar to operate the projector and make settings, and to disconnect the network connection. For details on the toolbar, see "Using the Toolbar". ☛ p.19

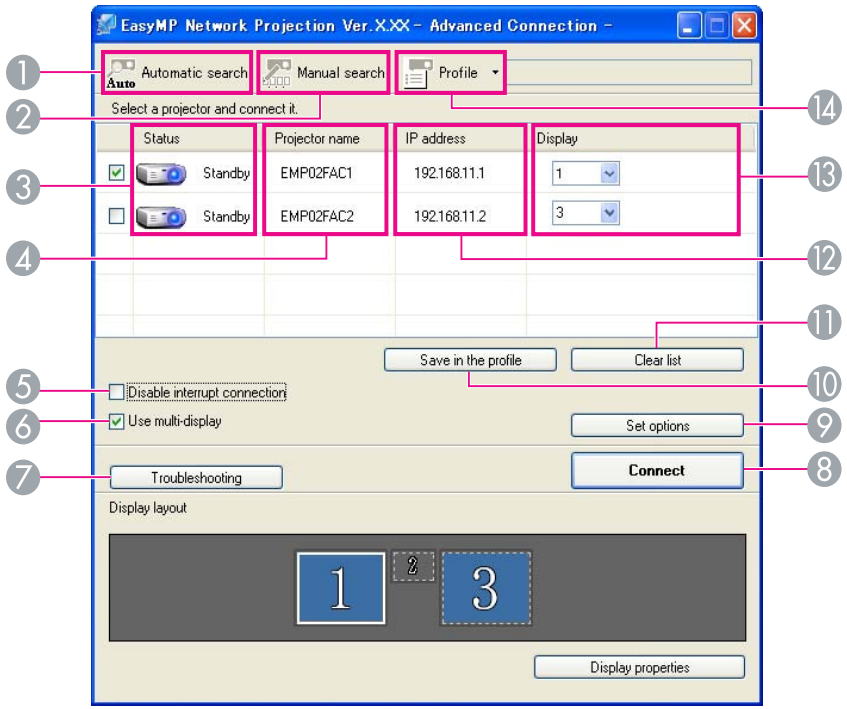
When connecting from another computer, such as when changing presenters, start EasyMP Network Projection from the computer you want to connect. The computer that is currently connected is disconnected, and the projector is then connected with the computer that is trying to connect now.

If a connection is made while **Disable interrupt connection** is set, the connection is not switched to another computer.

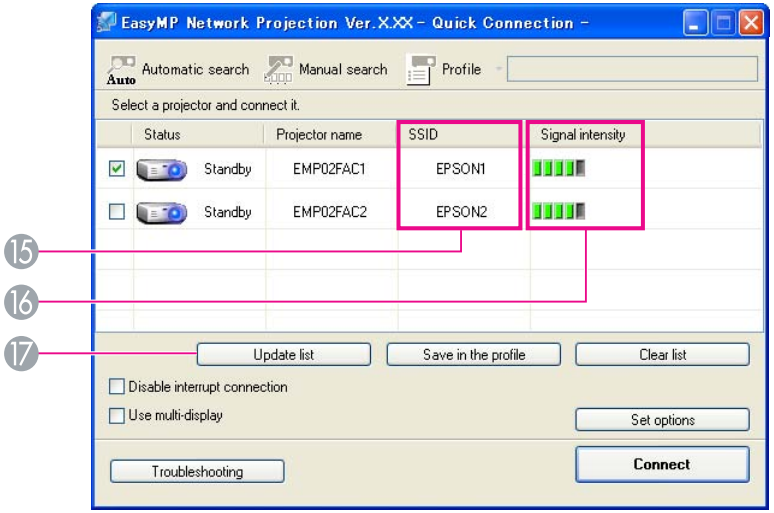
Using the Connection Screen

Start EasyMP Network Projection to display the following screen. The operation of each button or item is described in the following table.

When the system starts in **Advanced Connection Mode.**



When the system starts in **Quick Connection Mode.**



❶ **Automatic search**

In Advanced Connection Mode, you can search for available projectors on the network system to which the computer is connected.

In Quick Connection Mode, you can search for the projector based on the SSID.

❷ **Manual search**

In Advanced Connection Mode, you can search for a projector based on a specified IP address or projector name.

In Quick Connection Mode, you can search for the projector based on the SSID selected from a list.

❸ **Status**

The following six icons indicate the status of the detected projectors.

	Standby	Select for connecting.
	Busy	Select for connecting. When you click **Connect**, the computer currently connected is disconnected and your computer is connected.
	Busy (Disable interrupt connection)	Cannot be selected. **Disable interrupt connection** is set on another computer which is already connected.
	Currently in use by another application	Cannot be selected. The projector's network setting display is open. Or, another projector application is using the projector.
	Searching	Displayed while running Manual search or Profile.
	Not found.	Displayed when a projector cannot be found as a result of Manual search or Profile.

❹ **Projector name**

The projector's name is displayed.

❺ **Disable interrupt connection**

Check the box to prevent an interrupt connection by other computers while connected to the selected projector.

❻ **Use multi-display**

Check the box to use the Multi-screen display function. When this is selected, Display layout and Display properties are displayed at the bottom of the screen. ☛ p.26

❼ **Troubleshooting**

If there is a problem and you cannot have a connection, press this button to open the EasyMP Network Projection Troubleshooting screen.

❽ **Connect**

Connect to the projector you selected from the search results list. When a connection is made with a projector, a toolbar is displayed.

❾ **Set options**

You can make general setting options such as the processing method when starting up EasyMP Network Projection. For Set options, see ☛ p.41

❿ **Save in the profile**

Saves the results of a network projector search as a Profile. ☛ p.37

⓫ **Clear list**

Deletes all search results.

⓬ **IP address** (Advanced Connection Mode only)

The projector's IP address is displayed.

⓭ **Display**

Select the number displayed (when **Use multi-display** is selected). ☛ p.33

⓮

Profile

You can search for a projector on the network using a Profile saved using **Save in the profile**. ☛ p.36

⓯ **SSID** (Quick Connection Mode only)

The projector's SSID is displayed. If the **SSID Auto Setting** is set to **On** in the projector's Network menu, **Automatic** will be displayed before the SSID.
The currently detected SSID will be displayed grayed out.

⑯ **Signal intensity**

This is displayed when the connection is made in Quick Connection Mode. As the Signal intensity increases, so does the number of lit indicators.

⑰ **Update list** (Quick Connection Mode only)

Updates Status and Signal intensity.

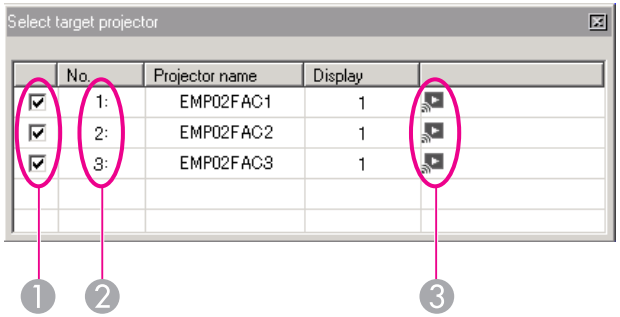
Using the Toolbar

The toolbar is displayed on the computer screen after EasyMP Network Projection starts and a connection is made with the projector. You can use this toolbar to operate and make settings for the projector.

Select target projector

Click to limit the projectors operated from the toolbar when projecting from multiple projectors using the distribution function or Multi-screen display. The indication below the icon shows the projectors that can be controlled.
ALL indicates that all of the connected projectors can be controlled.
For example, when "1, 3" is displayed, projectors No. 1 and No. 3 can be controlled.

Click to display the following screen.



❶ Select the projector to be controlled.

❷ Indicates the No. of an allocated projector. This No. indicates the No. of the projector that you can control from the toolbar.

❸ Indicates the status of the projector.

Stop

Stops projection while connected to the projector. A black screen is projected while stopped.

Show

Releases Stop or Pause.

Pause

Pauses projected images while connecting to the projector.

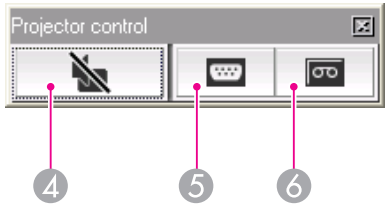
Presentation Mode

Each time this is clicked, Presentation Mode switches between enabled/disabled. ☛ p.23

Projector control

While the projector is connected to the network, the projector's A/V Mute, Switch PC source and Switch video source functions can be controlled from the toolbar.

Click to display the following toolbar.



4 A/V Mute

The same function as the [A/V Mute] button on the Remote Control.

See your *User's Guide* for more information.

5 Switch PC source

Changes to the image from the Computer or USB device.

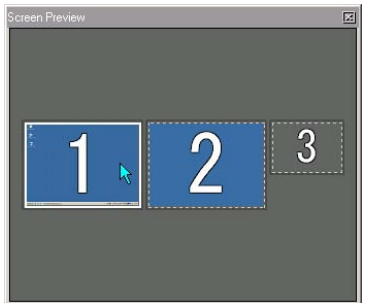
6 Switch video source

Changes to images from the video equipment or HDMI input port.

Screen Preview

Displays the multi-screen preview screen.

Click to display a preview with the settings you have made. Click each display to enlarge each Screen Preview to full-screen.



Set options

Transmission performance during the transfer of computer images can be adjusted. ☛ p.41

Movie Sending Mode

Used to immediately play back a movie file. ☛ p.24

Disconnect

Disconnects the connection to the projector.

Signal intensity

This is displayed when a connection is made in Quick Connection Mode. As the Signal intensity increases, so does the number of lit indicators.

Switch toolbar display

The toolbar display is switched as follows. The toolbar display remains as is until switched again.

Full

Normal

Simple

Functions and Settings for EasyMP Network Projection

This chapter explains those functions that may be useful during meetings or when making a presentation, such as the ability to send a movie file directly to a projector for playback (Movie Sending Mode) or that which allows you to send images to multiple projectors from a single computer (Multi-Screen Display).

Projecting Only a PowerPoint Slide Show (Presentation Mode)

In Presentation Mode, the images are only displayed when performing a PowerPoint Slide Show on a computer. When you stop Slide Show, the projector displays a black screen. This is useful when you only want to display the Slide Show.
In addition to PowerPoint, Keynote is compatible with Presentation Mode for Mac OS.

Procedure

1. **If necessary, select the projector you want to control.**
☛ p.19

2. **Click the button on the toolbar.**
Presentation Mode begins.

3. **Click the button again to exit Presentation Mode.**

Projecting Movies from a Computer (Movie Sending Mode)

In Movie Sending Mode, movie files can be sent directly to a projector. As a result, a movie can be projected much more smoothly than when it is being sent from an application running on a PC.

You can play multiple files repeatedly and in order.

- *Movie Sending Mode is valid for one projector only.*
  It is not possible to apply Movie Sending Mode to more than one projector.
- *Depending on the communication method and the available reception, the image and sound may skip or stall.*

Supported File Types

The file types supported by Movie Sending Mode are listed in the following table.

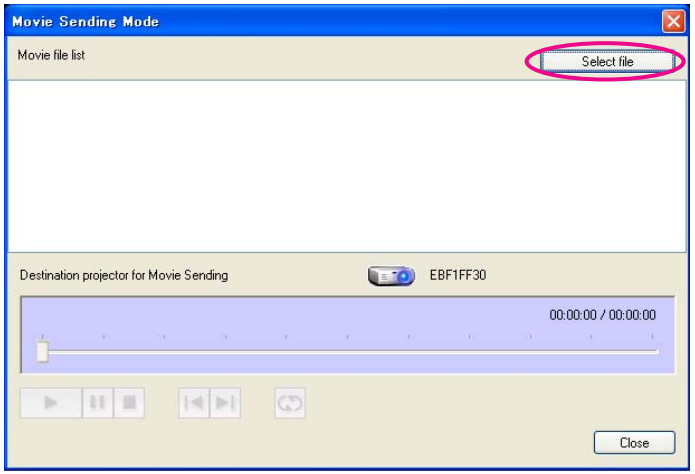
File Type (Extension)	Video Codec	Audio Codec	Recording Quality
.mpg .mpeg	MPEG-2	MPEG-1 Layer2 MPEG contents with no sound can be played back. Linear PCM and AC-3 audio cannot be played back.	Highest frame rate: 30 fps Maximum resolution: 720 x 576
.mp4	MPEG-4 ASP MPEG-4 AVC	MPEG-4 AAC-LC	
.wmv .asf	WMV8 WMV9	WMA	

Files with DRM (Digital Rights Management) applied cannot be projected.

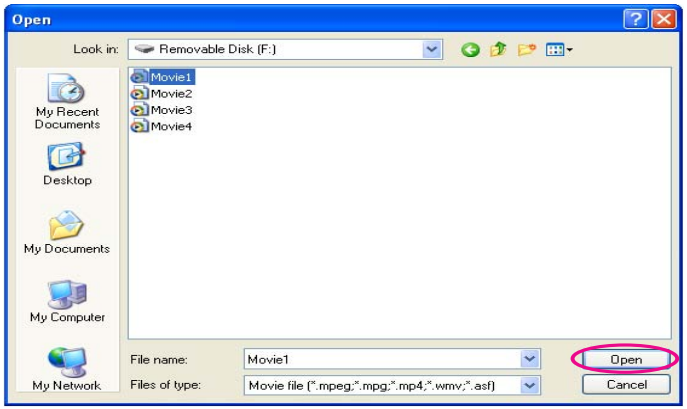
Playing Back a Movie

Procedure

1. **Click the button on the toolbar.**
   The projector selection screen is displayed.
2. **Select the projector you want to use to play back the movie and click "OK".**
   The Movie Sending Mode screen appears.
3. **Click "Select file".**



4 **Select the movie file(s) you want to play back and then click "Open".**



The Movie Sending Mode screen reappears. The selected files are displayed in the Movie file list.

If you click **Select file** again, the Movie file list changes after you make your selection.

5 **Play and stop the movie files from the Movie Sending Mode screen.**

Play Back Head

Drag & Drop to the point in the file where you want to start play back.

Play

Plays back the file.

Pause

Pauses play back.

Stop

Stops play back.

Back

Plays back from the beginning of the file that is playing.

Next

Plays back from the beginning of the next file.

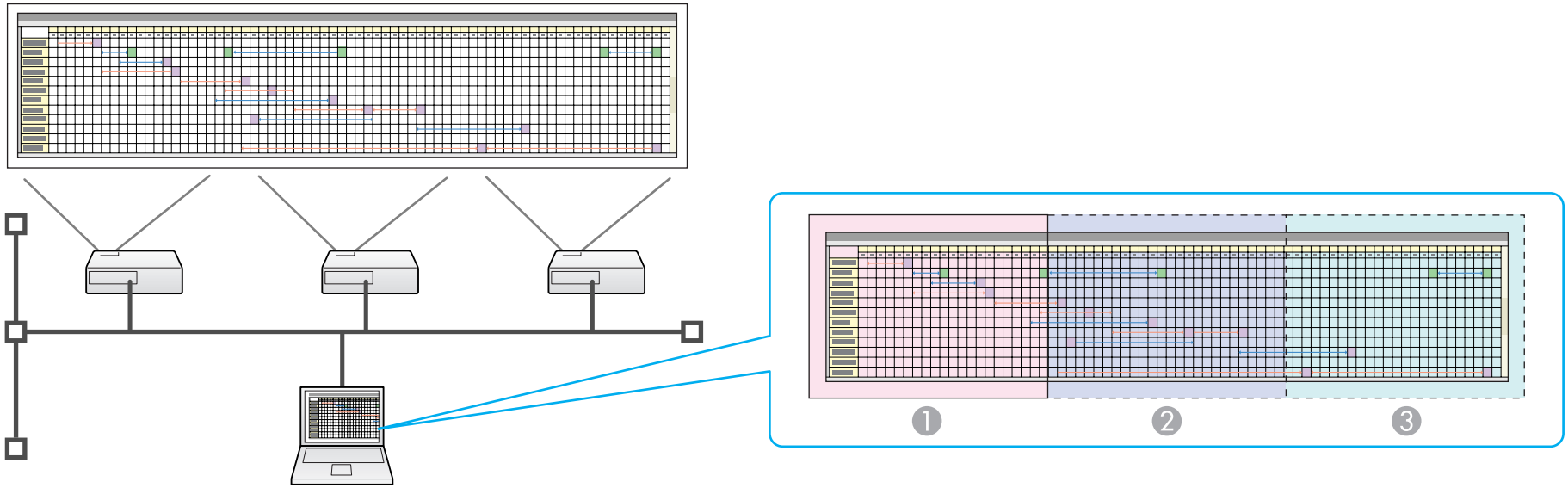
Repeat

Repeatedly plays back the file list in order. When there are multiple files in the list, it is not possible to repeatedly play back only some of those files.

6 **Click "Close" to end Movie Sending Mode.**

Using Multi-Screen Display

Multi-screen display mode allows you to project different images from multiple projectors that are connected to a single computer.
With Windows, multiple virtual display drivers can be set in the computer, and each image can be projected by the projector. This function cannot be used in Windows Vista and Windows 7 because it is not compatible.
For Mac OS, an external monitor needs to be connected to the computer to enable this function. While the following explanation refers to virtual display, for Mac OS the operation relates to the screens displayed on the physically connected monitor.



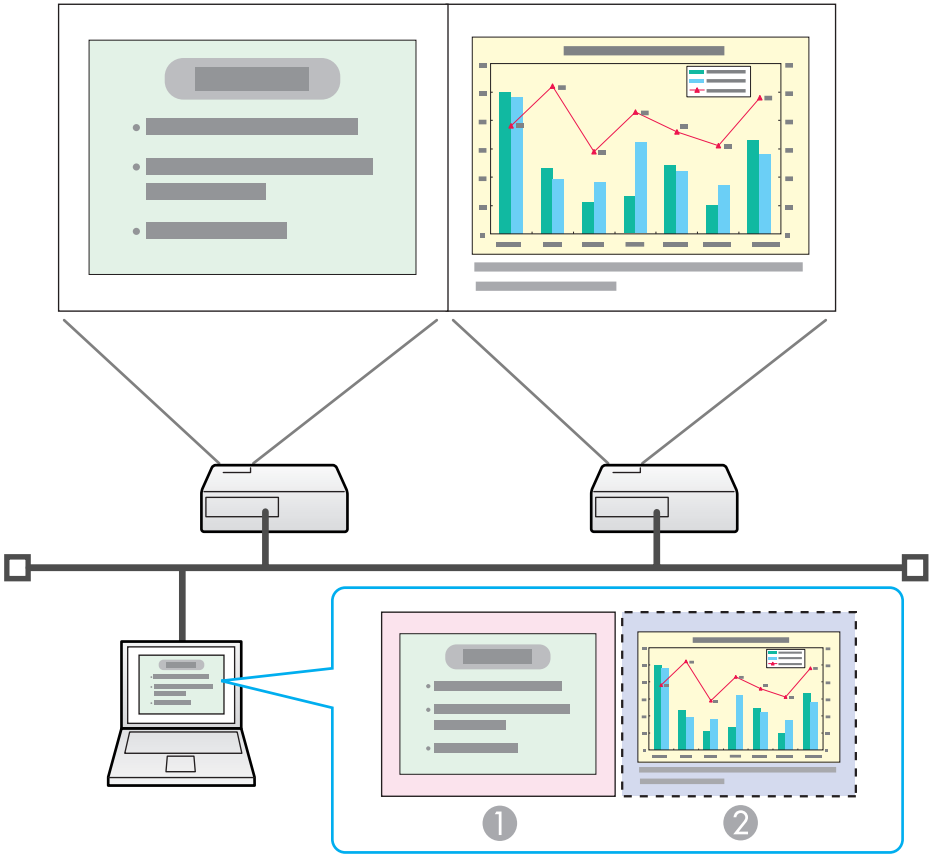
❶ Actual monitor image
❷ Image of virtual display 1
❸ Image of virtual display 2

The Multi-screen Display cannot be used if **Automatic** is displayed for the SSID in the Quick Connection screen.

Example of Adjusting the Virtual Display

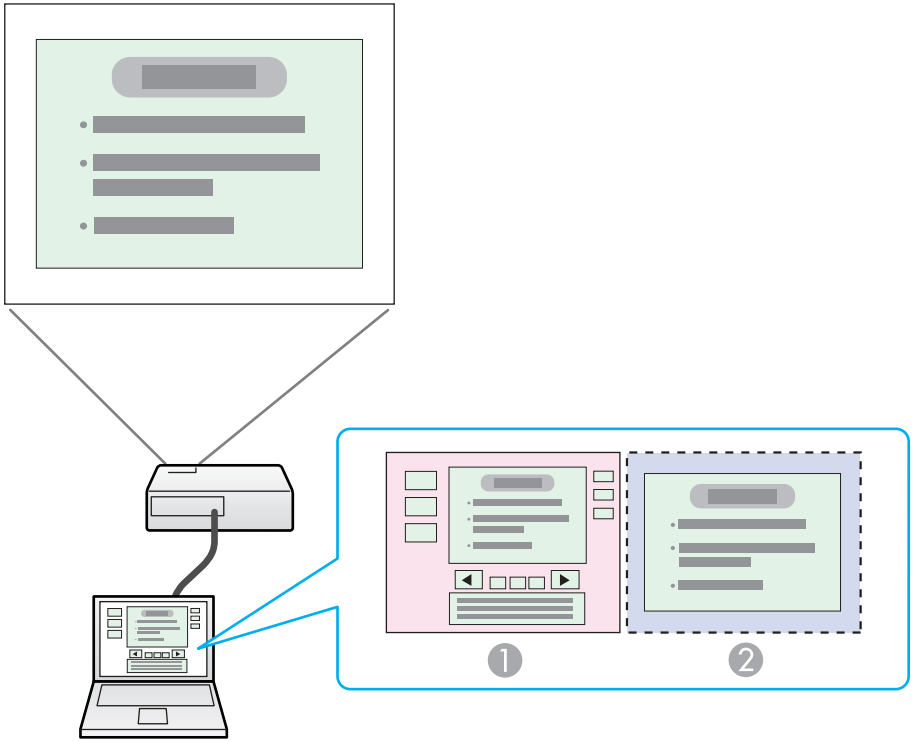
By arranging the virtual display allocation, you can project only the image that you want to show or project different images from left to right in a presentation.

Arrangement example 1



❶ **Actual monitor image** PowerPoint file
❷ **Image of virtual display** Excel file

Arrangement example 2



❶ **Actual monitor image** PowerPoint file presenter tools
❷ **Image of virtual display** Slide Show using a PowerPoint file

Procedure Before Using the Multi-screen Display Function

1. **Setting the Virtual Display** ☛ p.28

   In a Windows environment, enable the virtual display driver as necessary. Also, for both Windows and Mac OS, set up the virtual display arrangement.

2. **Allocating the image to be projected** ☛ p.32

   Open the file to be projected, and then move the screen to the virtual display according to the actual projection arrangement.

3. **The allocated image is projected** ☛ p.33

   Allocate a virtual display number to a projector that is connected through the network, and then start projection.

Setting the Virtual Display

This section explains the virtual display for arrangement example 1. ☛ p.27

Enable the virtual display driver (Windows only)

Enable the virtual display driver. Those users listed below do not have to perform this operation and should skip to ☛ "Adjusting the virtual display" p.29.

- Those users who have enabled virtual displays installing EasyMP Network Projection
- Mac OS users

Procedure

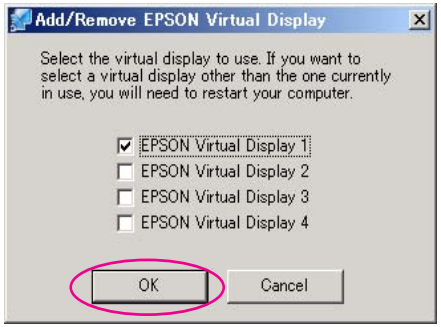
1. **Start Windows on the computer, and then select "Start" - "Programs" (or "All Programs") - "EPSON Projector" - "EasyMP Network Projection" - "Add-Remove EPSON Virtual Display".**

   The Add-Remove EPSON Virtual Display screen is displayed.

2. **Select the virtual display you want to use.**

   Up to four monitors can be added. In this example, a single virtual display is to be used. When setting multiple virtual displays, select as many displays as is necessary.
   Any one of the displays can be selected.

3. **Click "OK."**



When you click **OK**, the drivers for the virtual display are enabled. At this point, it is normal for the display to flicker. Wait for the Add-Remove EPSON Virtual Display screen to close.

Adjusting the virtual display

After starting EasyMP Network Projection, the procedure for setting up the virtual displays differs for Windows and Mac OS. The procedures are explained separately below.

Check the following points before starting EasyMP Network Projection when connecting via Wireless LAN. If the following points are not set correctly, Multi-screen display cannot be used.

- *When you use Quick Connection Mode, the SSID for the computer and each projector must be the same.*
- *The wireless LAN system for the computer and each projector must be the same.*
  You can modify the SSID and Wireless LAN system for the projector from the Network menu in the projector's Configuration menu. See your User's Guide for more information.

Procedure

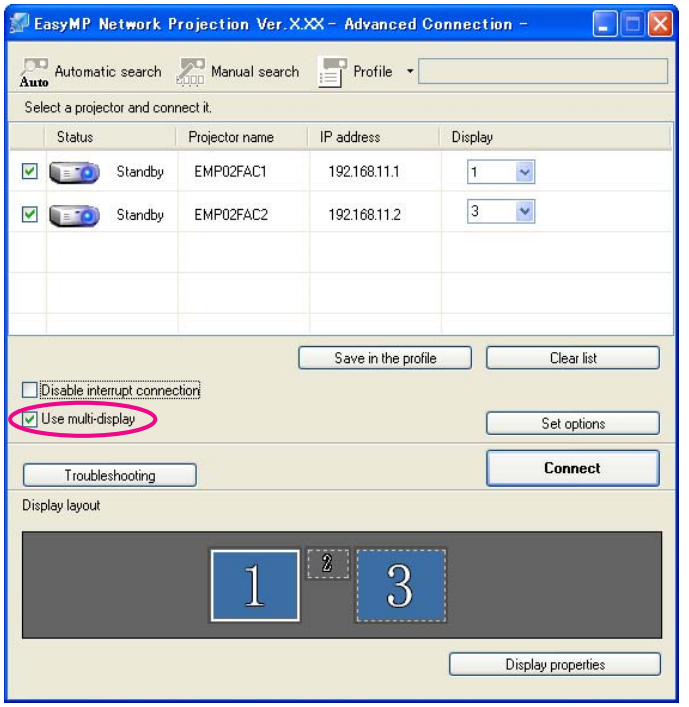
For Windows

1. **Select "Start" - "Programs" (or "All Programs") - "EPSON Projector" - "EasyMP Network Projection" - "EasyMP Network Projection V2.XX" to start EasyMP Network Projection.**

2. **If necessary, select "Quick Connection Mode" (only available when the optional Wireless 802.11g/b/a Module is installed) or "Advanced Connection Mode", and then click "OK."**

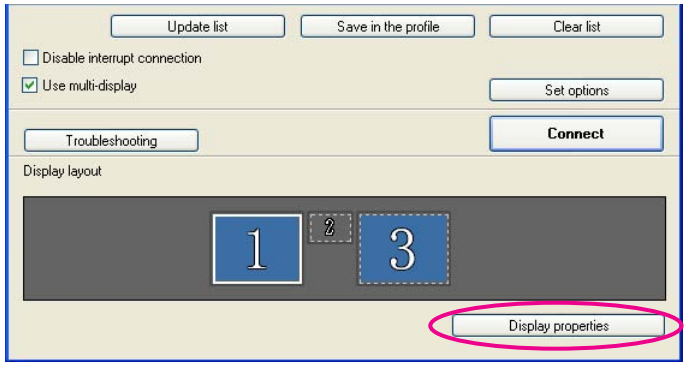
   The projector search results are displayed. To always connect using the same Connection Mode, select **Set the selected Connection Mode as the default mode for future connections.**

3. **Select the "Use multi-display" check box.**



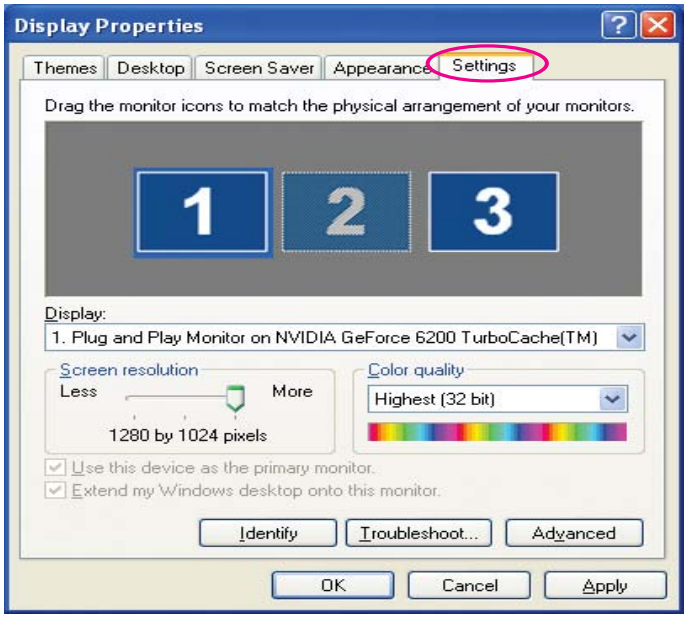
Display layout and Display properties are added at the bottom of the screen.

4 Click "Display properties."



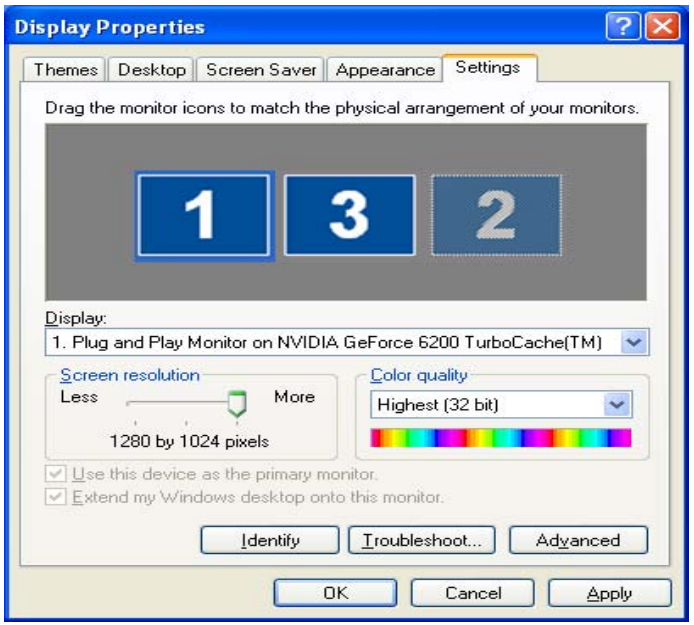
Display Properties window is displayed.

5 Click the "Settings" tab.



6 Drag the displayed monitor icon and place it where desired.

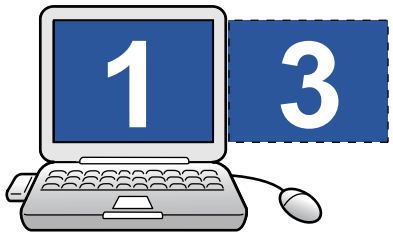
Here, the actual monitor (1) is placed on the left, while the virtual monitor (3) is placed on the right.
When the PC has multiple display output terminals, the numbers assigned to the virtual terminals will be sequential to those of the physical terminals.



- *When an external monitor is connected as a secondary monitor, the image for that screen cannot be projected.*
- *Depending on the hardware, the number of the secondary monitor may be other than (2). When the monitor icon is displayed on the screen, click the icon and confirm that the monitor type shown under Display is other than secondary.*

- *For the Screen Resolution settings, see the following.* ☛ *p.45*

When the monitor icon is arranged, a virtual display is connected as the image like below.



7 Click the "OK" button to close the Display Properties window.

Next, allocate the images you want to project. ☛ p.32

For Mac OS

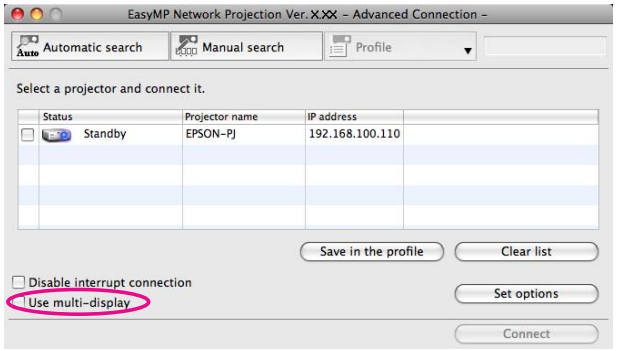
1 Start EasyMP Network Projection. Double-click the Applications folder of the hard drive volume in which EasyMP Network Projection is installed, and then double-click the EasyMP Network Projection icon.

In this example, we select and start in **Advanced Connection Mode**.

2 If necessary, select "Quick Connection Mode" (only available when the optional Wireless 802.11g/b/a Module is installed) or "Advanced Connection Mode", and then click "OK."

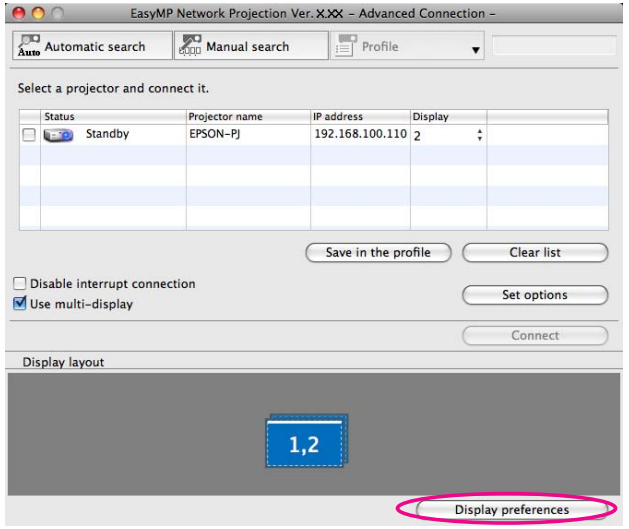
The projector search results are displayed. To always connect using the same Connection Mode, select **Set the selected Connection Mode as the default mode for future connections.**

3 Select the "Use multi-display" check box.



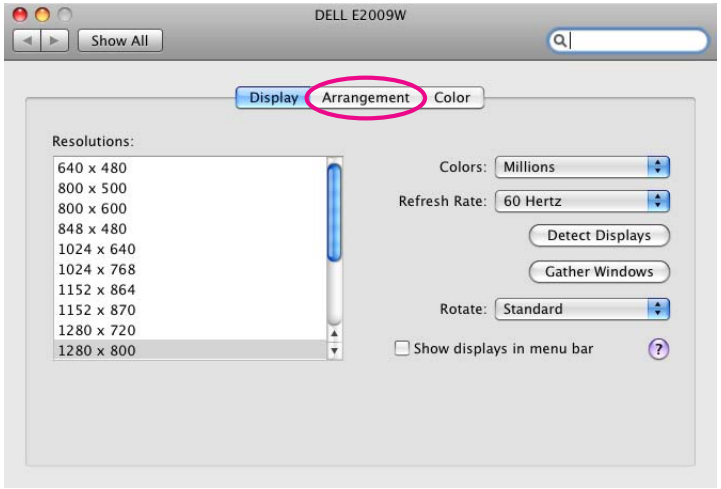
Display layout and Display preferences are added at the bottom of the screen.

4 Click "Display preferences."

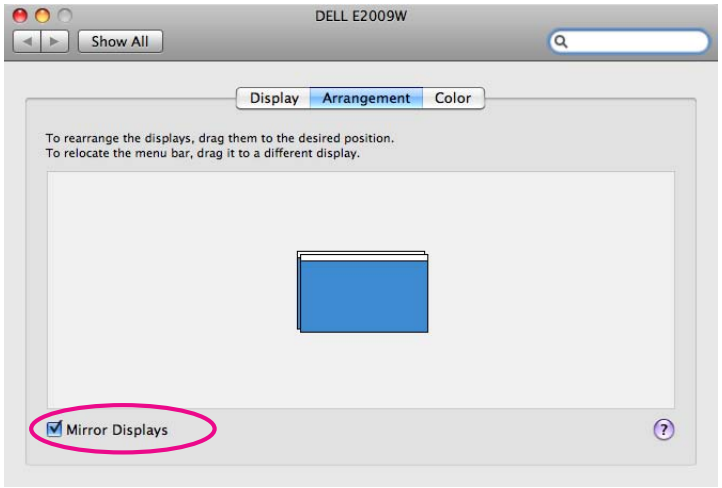


The display setting window is displayed.

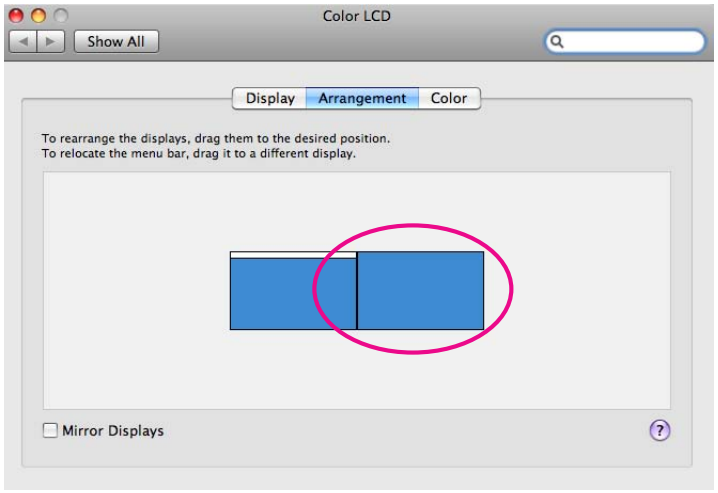
5 **Click "Arrangement".**



6 **De-select "Mirror Displays."**



7 **Drag the displayed monitor icon and place it where desired.**



8 **Close the display setting window.**

Allocating the Image to be Projected

This section explains the virtual display for arrangement example 1.
☛ p.27

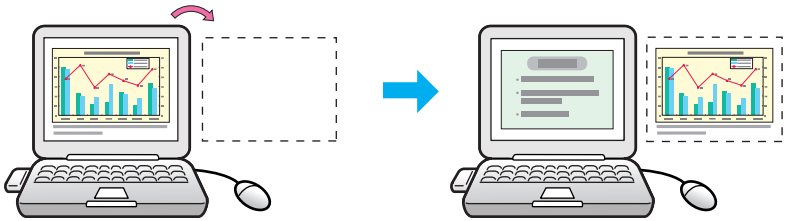
Procedure

1 **Open the file to be projected.**

Start the PowerPoint and Excel files.

2 Drag the window to the desired virtual display monitor, and allocate it where the image is to be projected.

Drag the Excel window to the right until it cannot be seen. As a result, the PowerPoint window appears on the actual monitor, while the Excel window appears on the virtual display on the right.

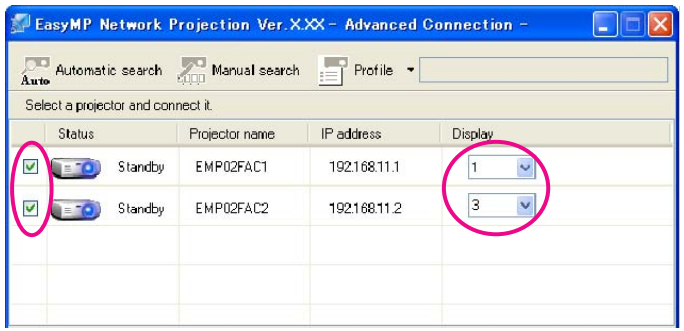


Projecting the Allocated Images

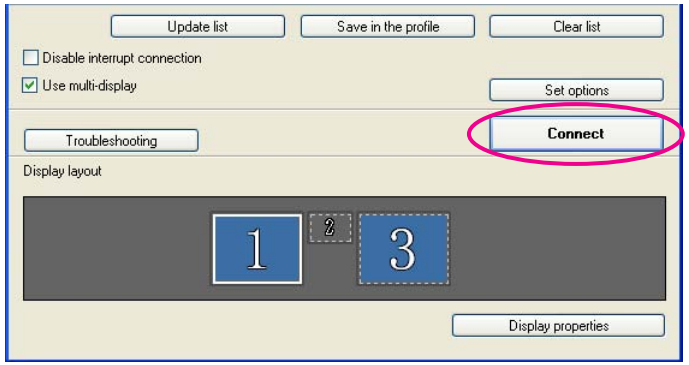
This section explains the virtual display for arrangement example 1.
☛ p.27

Procedure

1 Select the number of the virtual display to allocate on the "Display", and set which image to be projected from which projector.



2 **Click "Connect".**



The image allocated to each projector is projected.

In a Windows environment, you cannot view the image being sent to a virtual display on the computer. To adjust the image on the virtual display, you must do so while viewing the projected image. To perform mouse-based operations on the virtual display, move the mouse pointer in the direction of the virtual display, such that the pointer appears on the virtual display.

3 **To end projection for multi-screen display, click "Disconnect" on the toolbar.**

- *In a Windows environment, if the virtual display driver has been enabled such that the mouse pointer can be moved outside the limits of the screen, there may be occasions when you lose track of the location of the pointer. When you are not using a virtual display, clear the check mark against the virtual display under Add-Remove EPSON Virtual Display, so that the mouse pointer cannot be moved outside the limits of the screen. To subsequently use multi-display again, place a check mark against the required display under Add-Remove EPSON Virtual Display.*
  To clear a check mark, see the following. ☛ *p.28*
- *You can adjust each projector's color tone. See your User's Guide for more information.*

Connecting to a Projector on a Different Subnet

This chapter explains how to connect a computer to a projector on a different sub-net via a Wired LAN or a wireless LAN access point on an existing network system.

By default, this application only searches for projectors on the same subnet as the computer. Therefore, even if you perform a search for projectors on the network, projectors on a different subnet will not be found.
You can, however, identify and connect to a projector on a different subnet as follows:

- In advanced connection mode, specify either an IP address or Projector name and perform a search.

  The IP Address can be input directly. Also, provided the Projector name to be connected has been registered on the DNS server, you can perform a search simply by inputting that Projector name.

- Performing a search based on a Profile

  Once you have performed a search for a projector on a different subnet by specifying either an IP Address or a Projector name, you can save the search as a Profile with an easy-to-remember name, and then use that Profile whenever you subsequently want to search for a projector on a different subnet. ☛ p.36

If a search fails to find a projector, the most likely causes are as follows. Proceed as appropriate, depending on the cause of the failure.

- *For both Windows and Mac OS:*

  If there is no wireless LAN signal or if the signal is weak, check whether there is anything that could be interfering with the signal.

- *When the optional Wireless 802.11g/b/a Module is installed in the projector and you are connecting to a wireless LAN with Mac OS:*

  Check whether AirPort is set to On. Or, check whether an appropriate access point has been selected.

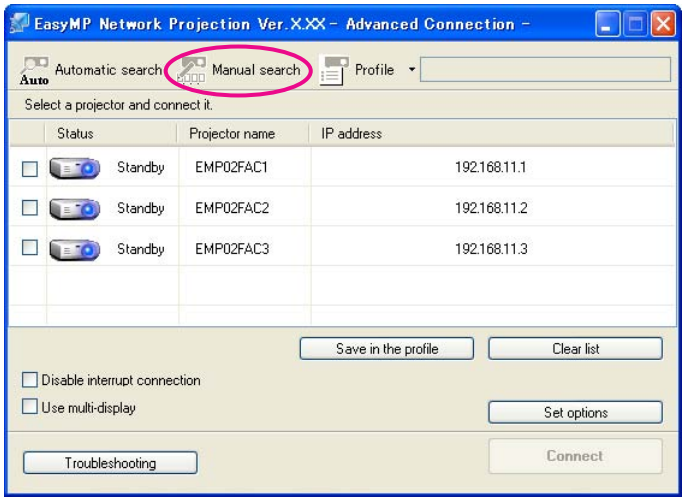
- *When you use Manual search in Quick Connection Mode, you can specify the SSID. When there are a lot of projectors you can narrow the search field by using SSID.*

Specifying Either an IP Address or Projector Name and Performing a Search (Advanced Connection Mode Only)

In the following explanations, unless otherwise noted, Windows screen shots are used.
Similar screens are displayed for Mac OS.

Procedure

1 Click "Manual search" on the EasyMP Network Projection projector selection screen.

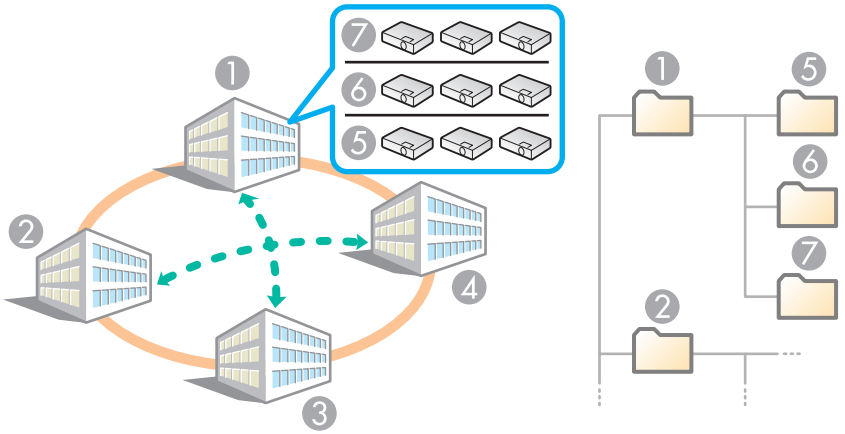


2 **Enter the IP address or the projector name for the projector you want to connect to, and click "OK".**

The search results are displayed on the EasyMP Network Projection projector selection screen.
Provided the target projector has been identified, select that projector, and then click **Connect** to establish a connection.
When you will always be using that projector, save the search as a Profile, so that you do not have to specify the relevant details every time you perform a search.

Performing a Search with a Profile

You can save a search for a frequently used projector as a Profile. A "Profile" is a file containing all of the information pertaining to a given projector, such as the projector name, its IP address, and SSID. If you specify that information from the next time you perform a search, there will be no need to specify the IP address or projector name each time you perform a search. For example, by creating a group of Profiles for each place where a projector is setup and managing them with folders, the target projector can be found quickly.



❶ Building A
❷ Building B
❸ Building C
❹ Building D
❺ Floor 1
❻ Floor 2
❼ Floor 3

This section explains how to create and edit a Profile.

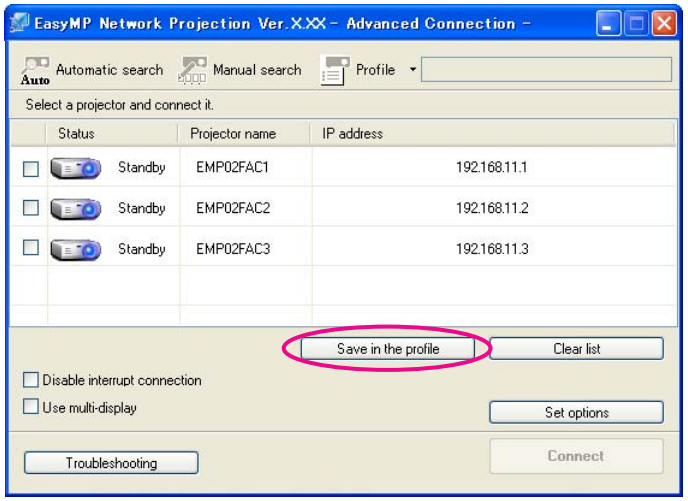
Making a Profile

Profiles are made by saving search results.

For details on how to edit a previously saved Profile, see the following section. ☛ p.39

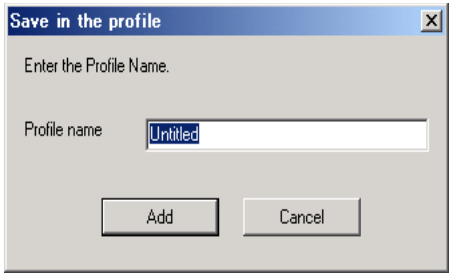
Procedure

1. **While the projector is displayed on the EasyMP Network Projection projector selection screen, click "Save in the profile".**



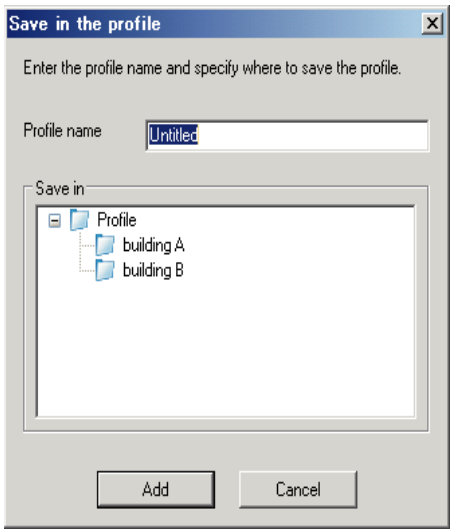
The Save in the profile window is displayed.

2 **Enter a Profile name, and then click "Add".**

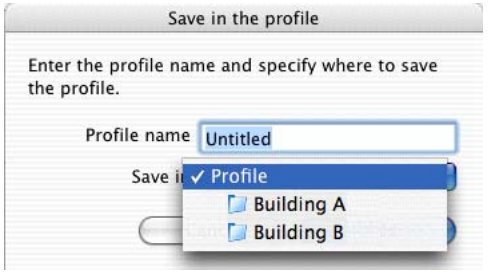


Projector information is registered in the Profile.
If you have previously saved a Profile, you are prompted to confirm whether or not to overwrite. To save a Profile with a different name, select **Save as**. If you have created a folder for a Profile, the following window is displayed. After entering the Profile name and selecting the **Save in** destination, click **Add**.

For Windows



For Mac OS



For details on how to create a folder for a Profile, see the following section.
p.39

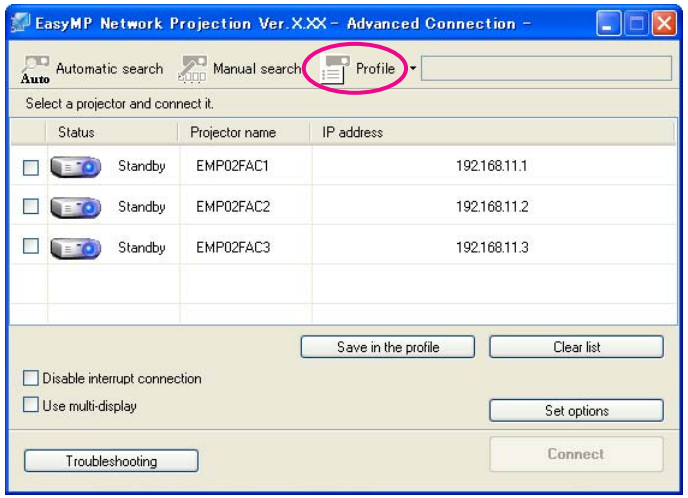
Searching by specifying a Profile

You can search by specifying the Profile you created.

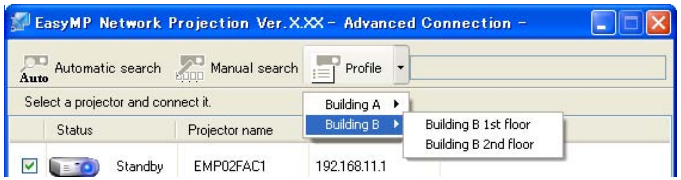
Procedure

1 Click "Profile" on the EasyMP Network Projection projector selection screen.

If no Profile is registered, you cannot select **Profile**.



2 From the menu that is displayed, select the projector you want to connect to.



The search results are displayed on the EasyMP Network Projection projector selection screen.
When the target projector has been identified, select that projector, and then click **Connect** to establish a connection.

Managing a Profile

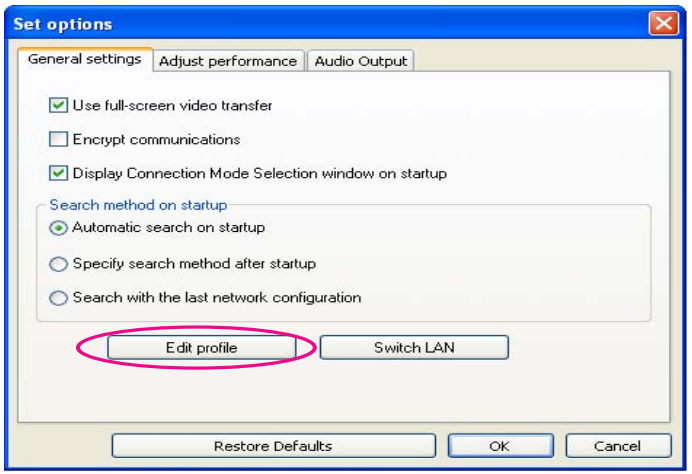
You can change the name and the hierarchical structure of the Profile.

Procedure

1 Click "Set options" on the main screen of EasyMP Network Projection.

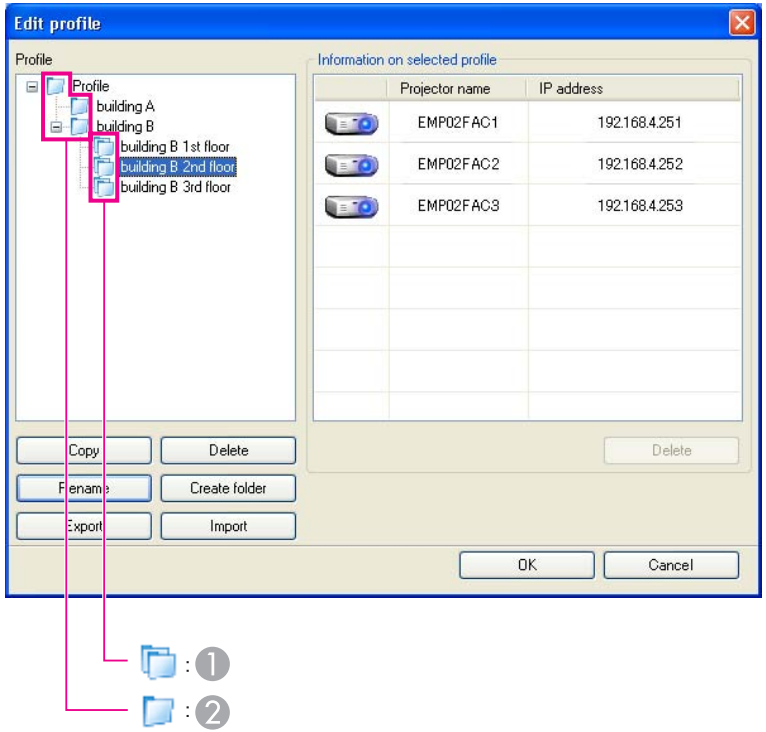
The Set options screen is displayed.

2 Click "Edit profile."



The Edit profile screen is displayed.

3 Edit the contents registered in the Profile.



❶ : Indicates a folder.

❷ : Indicates a Profile.

Profile	
Item	**Function**
Profile	You can display the registered Profile. You can manage it by creating a folder. You can change the order of the Profile or the folder by dragging & dropping.

Profile	
Item	**Function**
Copy	You can copy the Profile. The copied Profile is saved in the same folder as the original with the same name.
Delete	You can delete the Profile and the folder.
Rename	You can display the Rename dialog box and rename the folder or the Profile. You can enter up to 32 characters in the Rename dialog box.
Create folder	You can create a new folder.
Export	Exports a created Profile allowing you to import and use that Profile.
Import	Used when you want to read and use an exported Profile.

Information on selected profile	
Item	**Function**
Projector name, IP address	You can display the projector information registered in the Profile.
Delete	You can delete the information for the selected projector. When all projector information is deleted, the profile is also deleted.

4 Click "OK".

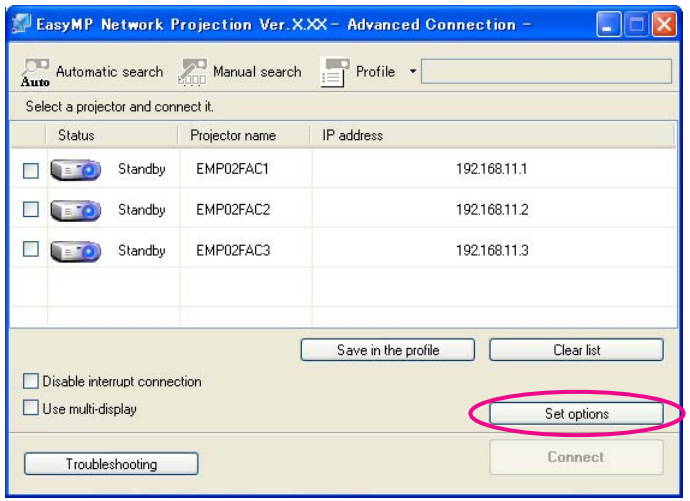
Saves your edits and closes the Edit profile screen.

Using Set options

You can select options such as the processing method when EasyMP Network Projection starts.

Procedure

1 **Click "Set options" on the main screen of EasyMP Network Projection.**



The Set options screen is displayed.

2 **Set each of the items.**

Confirm the details of the set items in the next section. When you have made all the necessary settings, click **OK** to close the Set options screen.

Selecting Settings

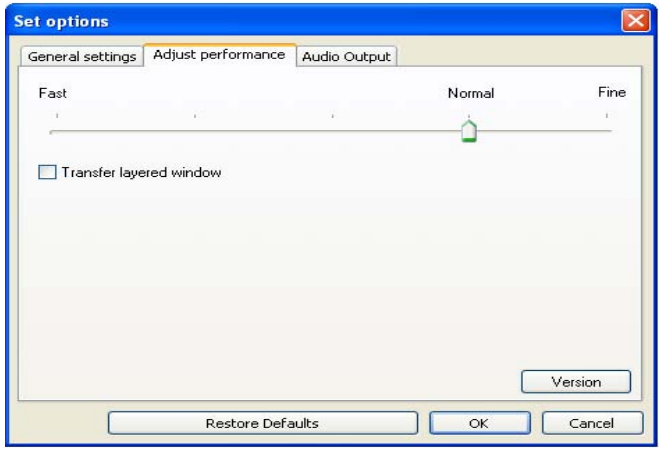
Select settings from the General settings tab, the Adjust performance tab, and the Audio Output tab.

General settings tab

Use full-screen video transfer	Windows 2000, Windows XP only Select this checkbox when you want to display Windows Media Player in full screen. However, clear this check box if the movie does not play back smoothly.
Encrypt communications	Select to Encrypt and transmit data. Even if data is intercepted, it cannot be decrypted. When using Quick Connection Mode, make sure you always select this checkbox.

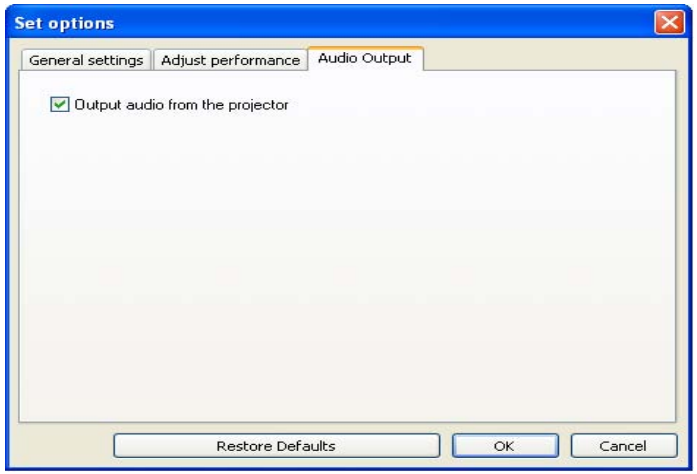
Display Connection Mode Selection window on startup	Set whether or not the Quick Connection Mode/Advanced Connection Mode screen is displayed when EasyMP Network Projection starts. Clear this checkbox once you have settled on a regular startup method.
Search method on startup	Select from the following projector search methods executed when EasyMP Network Projection is started. **Automatic search on startup** **Specify search method after startup** **Search with the last network configuration**
Edit profile	The Edit profile dialog box is displayed. ☛ p.39
Switch LAN	Windows only The Switch Network Adapter dialog box is displayed. This is used when it is necessary to switch the network adapter to be used for a search when a computer has multiple adapters. By default, all of the network adapters are used to perform a search. When a Wired LAN is always used as the connection method, select a Wired LAN adapter.
Restore Defaults	You can reset all adjustment values on the Set options to their default settings, except for Edit profile and Switch LAN.

Adjust performance tab



Performance adjustment slider	The performance can be set to **Fast**, **Normal**, and **Fine**. Set to **Fast** when movie projections are interrupted.
Transfer layered window	Windows 2000, Windows XP only Set whether or not to transfer a layered window. The layered window is in use when contents such as messages displayed on the computer are not projected by the projector. Select this checkbox to project contents such as messages that use the layered window. Clear this checkbox if you do not want the mouse pointer to flicker on the screen.
Restore Defaults	You can reset all adjustment values on the Set options to their default settings, except for Edit profile and Switch LAN.

Audio Output tab



Output audio from the projector	Set whether or not to transfer the computer's audio to the projector and output. De-select to output audio from the computer. However, when projecting a movie with audio in Movie Sending Mode, audio is output from the projector regardless of this item's setting.
Restore Defaults	You can reset all adjustment values on the Set options to their default settings, except for Edit profile and Switch LAN.

Appendix

Connection Limitations

When projecting computer images while running EasyMP Network Projection, the following restrictions apply. Confirm these points.

Supported Resolutions

The following computer screen resolutions can be projected. You cannot connect to a computer with a resolution greater than UXGA.

- VGA (640x480)
- SVGA (800x600)*
- XGA (1024x768)*
- SXGA (1280x960)
- SXGA (1280x1024)*
- SXGA+ (1400x1050) *
- WXGA (1280x768)
- WXGA (1280x800)
- WXGA+ (1440x900)
- UXGA (1600x1200)

* Supported resolutions when multi-screen display function is on.

If the computer monitor has a special horizontal-vertical ratio, the resolution will be adjusted according to the number of pixels of the computer monitor and projector to maximize image quality.
When this is done, a blank space may appear horizontally or vertically across the screen, depending on the resolution.

Display Color

The number of colors for computer screens that can be projected.

Windows	Mac OS
16-bit color	About 32,000 colors (16-bit)
32-bit color	About 16.7 million colors (32-bit)

The operational guarantee for multi-screen display is 16-bit and 32-bit color.

Number of Connections

You can connect up to four projectors to one computer and project simultaneously.
You cannot connect multiple computers to one projector simultaneously.

Others

- If the transmission speed of the Wireless LAN is low, the network might be cut off unexpectedly.
- Audio can only be transferred to one projector. Audio cannot be transferred when connected to multiple projectors.
- When videos are played back, they do not play back as smoothly as when displayed on the computer.
- Applications that use DirectX functions may not be displayed correctly. (Windows only)
- Cannot project full screen MS-DOS prompts. (Windows only)

- There are times when the image on the computer screen and the image projected by the projector may not match exactly.

When Using Windows Vista or Windows 7

Note the following points when using EasyMP Network Projection on a computer running Windows Vista or Windows 7.

Limitations when projecting from Windows Photo Gallery

Note the following two limitations when launching Windows Photo Gallery when PC Free is running.

- Slide Show is played back in simple mode when projecting from Windows Photo Gallery.

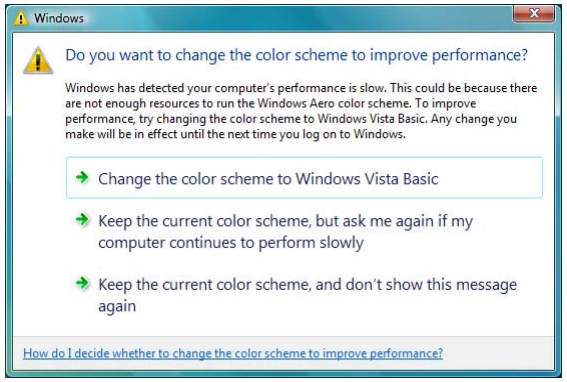
  Because the toolbar is not displayed, you cannot make changes while playing a Theme (effects), regardless of the Windows Experience Index rating.
  Once simple mode has started, you cannot change modes while Windows Photo Gallery is running even if you close EasyMP Network Projection. Restart Windows Photo Gallery.
- You cannot play movies.

Limitations in Windows Aero

Note the following two limitations when the window design for your computer is Windows Aero.

- Layered windows are projected regardless of the Transfer layered window setting in Set options in EasyMP Network Projection.
- A few minutes after you connect a computer to the projector over a network with EasyMP Network Projection, the following message is displayed.

  It is recommended that you select **Keep the current color scheme, and don't show this message again**. This selection is enabled until the computer is restarted.



Limitations when projecting from Windows Media Center

You cannot project images in full screen display using Windows Media Center. Switch to the window display mode to project the images.

Troubleshooting

If any of the following problems occur, refer to the pages given for each problem.

Problems concerning EasyMP Network Projection

"Cannot connect using EasyMP Network Projection" ☛ p.48

"When a connection is made using EasyMP Network Projection, the projected image remains as it is, and a connection cannot be made from another computer." ☛ p.48

"The projector is not found when EasyMP Network Projection is started." ☛ p.49

"Cannot connect in Advanced Connection Mode or Wired LAN connection" ☛ p.50

"Cannot select or change the connection mode." ☛ p.50

"The Slide Show cannot be displayed on the desired display when the multi-screen display function is being executed." ☛ p.51

"Applications are no longer displayed from the computer screen when the multi-screen display function is executed." ☛ p.51

"The mouse cursor is not displayed on the computer screen." ☛ p.51

"The mouse cursor is flickering." ☛ p.51

"The image and sound for movies in EasyMP Network Projection are not displayed, the image is slow to appear, or either the video or audio stop" ☛ p.52

"No audio from the projector when connecting with EasyMP Network Projection" ☛ p.52

"When a connection is made using EasyMP Network Projection, a PowerPoint Slide Show cannot be started." ☛ p.53

"When a connection has been made using EasyMP Network Projection, the screen will not be refreshed when using an Office application." ☛ p.53

"Error message when starting up EasyMP Network Projection" ☛ p.53

"Network settings are not restored after cutting the connection to the computer with EasyMP Network Projection." ☛ p.55

Problems concerning EasyMP Network Projection

Cannot connect using EasyMP Network Projection

Check the message on the screen and then apply the following countermeasures.

Error Messages	Remedy
Cannot connect to the projector using this version of EasyMP Network Projection. Install the latest version of EasyMP Network Projection.	Install the current version of EasyMP Network Projection from the EPSON Projector Software CD-ROM supplied with the projector. The most recent version of EasyMP Network Projection can be downloaded from the following website. www.epson.com/support (U.S. support) or www.epson.ca/support (Canada)

When a connection is made using EasyMP Network Projection, the projected image remains as it is, and a connection cannot be made from another computer.

Check	Remedy
Did the presenter leave the conference room without cutting off the network connection?	With EasyMP Network Projection, the connection with the computer that was previously connected can be cut off when another computer tries to connect with the projector, and it connects with the computer that is trying to connect. Therefore, when a Projector Keyword is not set for the projector, or if you know the Projector Keyword, you can cut off the current connection and, if you perform a connection operation, you can connect to the projector. When a Projector Keyword is set for the projector, if you do not know the Projector Keyword, restart the projector and reconnect.

The projector is not found when EasyMP Network Projection is started.

Check	Remedy
Is the optional Wireless 802.11g/b/a Module connected? **For Wireless LAN**	Check that the Wireless LAN unit is securely connected.
Is the Network Configuration screen displayed on the projector?	Close network settings on the projector, and return to the LAN standby screen.
Are the computer's LAN card and the built-in LAN function available?	Check that LAN is valid by checking Control Panel - System - Hardware in the device manager and so on.
Is the SSID the same as that of the access point? **Quick Connection Mode**	Set an SSID that is different from that of the access point. See your *User's Guide* for more information.
Is the DHCP function for Wired LAN turned On? **Quick Connection Mode**	Turn **Off** the **DHCP** setting for **Wired LAN** from the Configuration Menu. See your *User's Guide* for more information.
Was the network adapter used selected correctly with EasyMP Network Projection?	If the computer has multiple LAN environments, it cannot connect unless the network adapter is selected correctly. When using a computer running Windows, start EasyMP Network Projection and select the network adapter you are using from **Set options** - **Switch LAN**. ☛ p.41
For Wireless LAN connection, is the Wireless LAN setting enabled when the computer is in power save mode?	Enable the Wireless LAN.
Are there any obstacles between the access point and the computer or projector? **For Wireless LAN**	Sometimes interference prevents the projector from being found in a search. Check for any obstacles between the access point and the computer or projector, and change their position to lessen potential interference.
Is the computer's Wireless LAN electromagnetic wave strength set to low?	Set the electromagnetic wave strength to maximum.
Does the Wireless LAN conform to 802.11g, 802.11b, or 802.11a?	The optional Wireless 802.11g/b/a Module is only compatible with standards 802.11g, 802.11b, and 802.11a, and not with other standards such as 802.11.
Is the firewall turned off, or has the firewall been registered as an exception?	When you do not wish to turn off the firewall or register the firewall as an exception, make the necessary settings to open the ports. The ports used by EasyMP Network Projection are "3620", "3621", and "3629".
Is the network cable connected correctly? **For Wired LAN**	Check that the network cable is connected correctly. Reconnect it if it is not connected or not connected properly.

Check	Remedy
Is Wireless LAN Power set to Off in the projector's Wireless LAN menu? **For Wireless LAN**	Set the **Wireless LAN Power** to **On**. See your *User's Guide* for more information.

Cannot connect in Advanced Connection Mode or Wired LAN connection

Check	Remedy
Are the SSID settings for the computer, access point, and projector different?	Set the computer, the access point, and the projector to the same SSID. See your *User's Guide* for more information.
Are the WEP keys set properly?	When selecting **WEP** from **Security**, set the access point, the computer, and the projector to the same WEP key. See your *User's Guide* for more information.
Are the connection denial functions, such as MAC Address restrictions and port restrictions, set correctly at the access point?	Set the projector to allow connections from the access point.
Are the IP address, the Subnet Mask, and the Gateway Address for the access point and the projector set correctly?	When not using a DHCP, adjust each setting. See your *User's Guide* for more information.
Are the access point and the projector's subnet different?	Select **Manual search** from EasyMP Network Projection, specify the IP address, and connect. ☛ p.35

Cannot select or change the connection mode.

Check	Remedy
Is the projector already set to start in the same connection mode?	Select **Set options** and select the **Display Connection Mode Selection window on startup** option on the **General settings** tab page. The Connection Mode Selection window will be displayed when EasyMP Network Projection is started again. ☛ p.41

The Slide Show cannot be displayed on the desired display when the multi-screen display function is being executed.

Check	Remedy
Are you using PowerPoint 2002 or an earlier version? **For Windows**	To set and use two or more virtual displays, use PowerPoint 2003 or later, or limit the number of virtual displays to one before displaying the Slide Show.

Applications are no longer displayed from the computer screen when the multi-screen display function is executed.

Check	Remedy
Is another application running on the virtual display? **For Windows**	When EPSON Virtual Display is installed, another application sometimes runs on the virtual display. In this case, set EPSON Virtual Display to "Off" in "Screen properties".

The mouse cursor is not displayed on the computer screen.

Check	Remedy
Is EPSON Virtual Display installed? **For Windows**	The mouse cursor was moved onto the virtual display. When the virtual display checkbox is cleared on the Add-Remove EPSON Virtual Display screen, the mouse pointer returns to the screen display area.

The mouse cursor is flickering.

Check	Remedy
Is the Transfer layered window option selected? **For Windows**	De-select the Transfer layered window option on the Adjust performance tab page. p.42

The image and sound for movies in EasyMP Network Projection are not displayed, the image is slow to appear, or either the video or audio stop

Check	Remedy
Did you try to play back movies with Media Player or try to operate the screen saver preview?	Depending on the computer, the movie playback screen in Media Player may not be displayed, and the screen saver preview may not be displayed normally.
Is WEP encryption enabled, or are multiple projectors connected?	The display speed decreases when WEP encryption is enabled or multiple projectors are connected.
Have you enabled DHCP?	When DHCP is set to **On** in Advanced Connection Mode, if an available DHCP server is not found it may take some time to enter LAN standby status.
Was EasyMP Network Projection started while a movie was playing, or were the resolution and color number changed? **For Macintosh**	When playing back movies, start EasyMP Network Projection first before starting play back. If EasyMP Network Projection is started during movie play back and the display screen resolution and color number are changed, try moving the movie playback window, minimizing it, or resizing it.
Is Wireless LAN 802.11b/g being used in Quick Connection Mode?	There are times when the image and sound for movies may stop due to interference. When using the movie sending function, use Advanced Connection Mode or Wireless LAN 802.11a in Quick Connection Mode.
Are you using a computer that does not meet the recommended specifications?	When using a computer that does not meet the recommended specifications, images and audio for movies may stop. ☛ "Software Requirements" p.8

No audio from the projector when connecting with EasyMP Network Projection

Check	Remedy
Are multiple projectors connected to one computer?	Audio can only be transferred to one projector. Disconnect the current connections and connect only one projector on the connection screen.
Is audio set to output from the computer in Set Options?	Select **Output audio from the projector** on the Set options Audio Output tab.☛ p.43

When a connection is made using EasyMP Network Projection, a PowerPoint Slide Show cannot be started.

Check	Remedy
Was EasyMP Network Projection started while PowerPoint was running? **For Windows**	When connecting with EasyMP Network Projection, make sure you close PowerPoint first. Slide Show might not run if connecting while PowerPoint is running.

When a connection has been made using EasyMP Network Projection, the screen will not be refreshed when using an Office application.

Check	Remedy
Is the mouse moved continuously?	When you stop moving the mouse cursor, the screen is updated. If the screen does not update quickly, stop moving the mouse cursor.

Error message when starting up EasyMP Network Projection

Error Messages	Remedy
Connection to the projector failed.	Try to connect again. If it still does not connect, check the network settings on the computer and the network settings for the projector.
The keyword does not match. Re-enter the keyword displayed on the projector screen.	Check the Projector Keyword displayed on the LAN standby screen, and enter the Projector Keyword.
The selected projector is busy. Do you want to continue the connection process?	You tried to connect to a projector that is connected to another computer. When **Yes** is clicked, it connects to the projector. The connection between the projector and the other computer is cut off. When **No** is clicked, it does not connect to the projector. The connection between the projector and the other computer is maintained.
EasyMP Network Projection initialization failed.	Restart EasyMP Network Projection. If the message still appears, uninstall EasyMP Network Projection and then reinstall it again. ☛ p.7

Error Messages	Remedy
Connection failed due to keyword mismatch.	When connecting to a projector for which a Projector Keyword has been set, the wrong Projector Keyword is entered. Check the Projector Keyword that is displayed on the projector's connection standby screen. After the connection is disconnected and then reconnected, enter the Projector Keyword on the keyword entry screen that is displayed. ☛ p.14
Network adapter information could not be obtained.	Check the following: Is a network adapter installed on the computer? Is the driver for the network adapter used installed on the computer? After checking, restart the computer and connect again. If you still cannot connect, check the network settings on the computer and the network settings on the projector.
One or more connected projectors do not support resolutions greater than SXGA. Reduce the screen resolution and reconnect.	There is a PowerLite 735c projector in the connection destination. Change the computer screen resolution to SXGA (1280x1024) or less.
One or more projectors are not responding.	You cannot connect to multiple projectors simultaneously. Check the network settings on the computer and the network settings on the projector.
Enter the keyword displayed on the projector screen.	Check the Projector Keyword displayed on the LAN standby screen, and enter the Projector Keyword.
To output audio from the projector, restart applications such as PowerPoint or Windows Media Player.	Sound will be output from the projector when PowerPoint or the Media Player is restarted.
To output audio from the computer, restart applications such as PowerPoint or Windows Media Player.	Sound will be output from the computer when PowerPoint or the Media Player is restarted.
You need to restart your computer to enable Audio Output. Select "Yes" to restart now, or select "No" to restart later.	To transfer audio to the projector and play back, select **Yes** and restart the computer.
Cannot start this application while Quick Wireless Connection is running.	Close Quick Wireless Connection and then start EasyMP Network Projection.
The wireless LAN is off. Turn on the wireless LAN, and then try searching again.	Turn on the wireless LAN switch on the computer and then search for the projector again.

Network settings are not restored after cutting the connection to the computer with EasyMP Network Projection.

Check	Remedy
Are you manually connecting to a Wireless LAN when the computer starts up? **Quick Connection Mode**	Try connecting to the Wireless LAN manually.

Glossary

This section briefly explains the difficult terms that are not explained in the text of this guide. For details, refer to other commercially available publications.

MAC Address	An abbreviation of Media Access Control. The MAC Address is an ID number unique to each network adapter. A unique number is assigned to each network adapter, and data is transmitted between network adapters based on this identification.
VGA	A type of video signal with a resolution of 640 (horizontal) × 480 (vertical) dots that is used by IBM PC/AT-compatible computers.
SVGA	A type of video signal with a resolution of 800 (horizontal) ×600 (vertical) dots that is used byIBM PC/AT-compatible computers.
XGA	A type of video signal with a resolution of 1,024 (horizontal) × 768 (vertical) dots that is used by IBM PC/AT-compatible computers.
SXGA	A type of video signal with a resolution of 1,280 (horizontal) × 1,024 (vertical) dots that is used by IBM PC/AT-compatible computers.
UXGA	A type of video signal with a resolution of 1,600 (horizontal) × 1,200 (vertical) dots that is used by IBM PC/AT-compatible computers.
Ad hoc	A method of Wireless LAN connection that communicates with wireless LAN clients without using an access point. It is not possible to communicate with two or more devices simultaneously.
Virtual display	The screen for one computer is output to multiple displays. A large virtual screen can be created by using multiple displays.

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Illustrations in this guide and the actual projector may differ.

About Notations

Microsoft® Windows® 2000 operating system
Microsoft® Windows® XP Professional operating system
Microsoft® Windows® XP Home Edition operating system
Microsoft® Windows Vista® operating system
Microsoft® Windows® 7 operating system

In this guide, the operating systems above are referred to as "Windows 2000," "Windows XP," "Windows Vista," and "Windows 7". Furthermore, the collective term Windows may be used to refer to Windows 2000, Windows XP, Windows Vista, and Windows 7, and multiple versions of Windows may be referred to as, for example, Windows 2000/XP/Vista, with the Windows notation omitted.

Mac OS X 10.3.x
Mac OS X 10.4.x
Mac OS X 10.5.x
Mac OS X 10.6.x

In this guide, the operating systems above are referred to as "Mac OS X 10.3.9," "Mac OS X 10.4.x," "Mac OS X 10.5.x," and "Mac OS X 10.6.x". Furthermore, the collective term "Mac OS" is used to refer to them.

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