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Multimedia Projector

# EasyMP Network Projection Operation Guide

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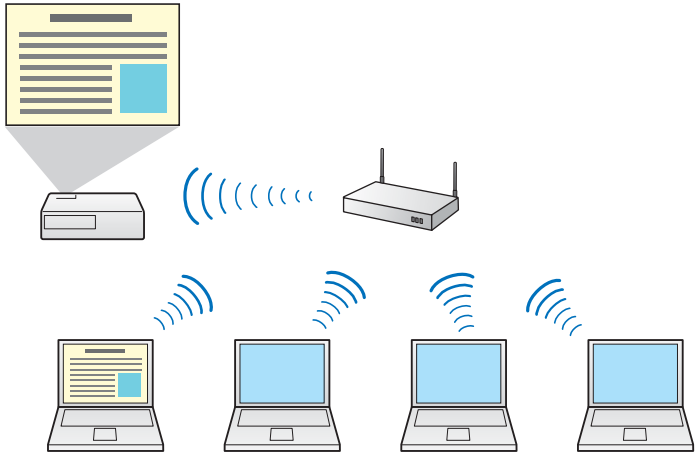
# About EasyMP Network Projection

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

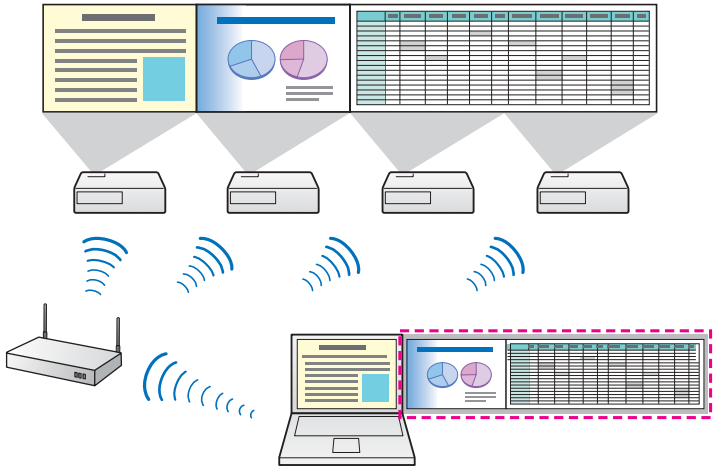
You can use EasyMP Network Projection to project your computer screen from the projector via a network. Sharing the projector over the network allows you to project data from different computers without changing the signal cable. Even if the projector is away from the computer, you can still project data via a network.



## Various Screen Transfer Functions

You can use the following screen transfer functions.

- Multi-screen display
  ☛ "Using Multi-Screen Display" p.26
  You can use up to four projectors to project a different image from one computer. This allows you to project data such as a report on a landscape screen.



- Movie Sending Mode (supported models only)
  ☛ "Playing Movies" p.24
  You can send movie files directly to a projector which allows movies to be played smoothly.
- Presentation Mode
  ☛ "Projecting Only a PowerPoint Slide Show (Presentation Mode)" p.23
  By using Presentation Mode, you can project only the PowerPoint Slide Show running on your computer. A black screen is projected when the Slide Show is not playing. You can start presentations smoothly without projecting unnecessary images.
- Distribution function
  The screen being displayed by a computer can be simultaneously displayed by up to four projectors on the same network.
  You cannot connect multiple computers to one projector simultaneously.

You can find EasyMP Network Projection on the 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.

**For Windows**

| | | |
|---|---|---|
| OS | Windows 2000*1 | |
| | Windows XP*2 | Professional 32-bit<br>Home Edition 32-bit<br>Tablet PC Edition 32-bit |
| | Windows Vista | Ultimate 32-bit<br>Enterprise 32-bit<br>Business 32-bit<br>Home Premium 32-bit<br>Home Basic 32-bit |
| | Windows 7 | Ultimate 32/64-bit<br>Enterprise 32/64-bit<br>Professional 32/64-bit<br>Home Premium 32/64-bit<br>Home Basic 32-bit<br>Starter 32-bit |
| CPU | Mobile Pentium III 1.2 GHz or faster<br>Recommended: Pentium M 1.6 GHz or faster | |
| Amount of Memory | 256 MB or more<br>Recommended: 512 MB or more | |
| Hard Disk Space | 20 MB or more | |
| Display | Resolution of no less than XGA (1024x768) and no higher than WUXGA (1920x1200).<br>Display color of 16-bit color or greater (approx. 32000 display colors) | |

*1 Windows 2000 Service Pack 4 only.

*2 Except for Windows XP without any service packs installed, and Windows XP Service Pack 1.

**For Mac OS X**

| | |
|---|---|
| OS | Mac OS X 10.4.x 32-bit<br>Mac OS X 10.5.1 or later* 32-bit<br>Mac OS X 10.6.x 32/64-bit<br>Mac OS X 10.7.x 32/64-bit<br>Recommended: Mac OS X 10.4.11/10.5.8/10.6.6/10.7.0 |
| CPU | PowerPC G3 900 MHz or faster<br>Recommended: CoreDuo 1.83 GHz or faster |
| Amount of Memory | 256 MB or more<br>Recommended: 512 MB or more |
| Hard Disk Space | 20 MB or more |
| Display | Resolution of no less than XGA (1024x768) and no higher than WUXGA (1920x1200).<br>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.

- 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 name of the software 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. Depending on the model, you may not be able to connect to the projector correctly using EMP NS Connection.

**For Windows**

You need administrator authority to install EasyMP Network Projection.

1. Turn on your computer.
2. Insert the EPSON Projector Software CD-ROM into the computer.
   The installer starts automatically.

   If the installer does not start automatically, open the CD-ROM drive from **My Computer** (or **Computer**), and then double-click **InstallNavi.exe** or **EMP_NSCInst.exe**.
3. Follow the on-screen instructions to install.

**For Mac OS X**

1. Turn on your computer.
2. Insert the EPSON Projector Software CD-ROM into the computer.
3. Double-click the **EMP_NPInstaller.mpkg** icon in the EPSON window.
   Installation starts.
4. Follow the on-screen instructions to install.

You can download the latest version of EasyMP Network Projection from the following Web site.

http://www.epson.com/

# Connecting the Computer and Projector

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.

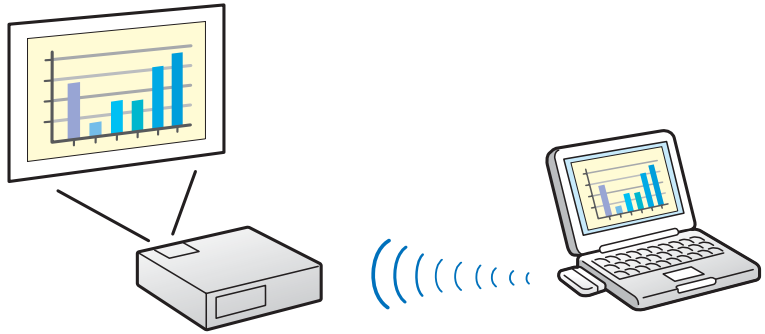
There are two methods of connecting a computer and the projector via a network by using EasyMP Network Projection.

- Depending on the projector model, either wired LAN connection or wireless LAN connection may not be available.
- To use the wireless LAN connection, you need the Wireless LAN unit for the projector.
  If the Wireless LAN unit is not supplied with your projector, please purchase the optional accessory. See the following manual for details on optional accessories.
  ☛ *User's Guide*

## Quick Connection Mode

Quick Connection Mode is only available when you install the Wireless LAN unit in the projector.

In Quick Connection Mode, you can connect the projector and the computer directly using wireless communication. This allows you to project the computer screen without making any complicated network settings.

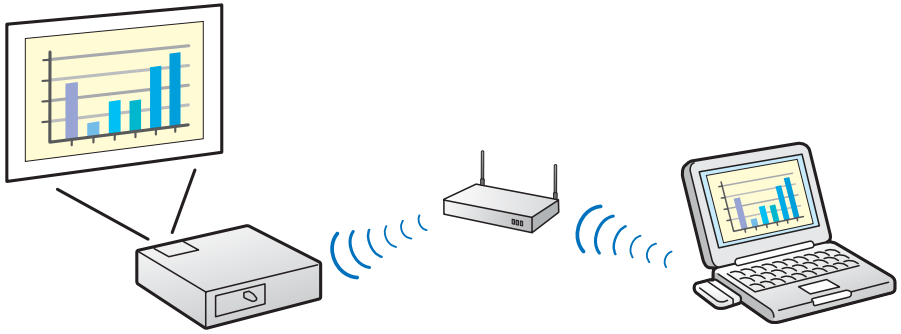


## Advanced Connection Mode

Advanced Connection Mode connects to an existing network system.

In Advanced Connection Mode, you can connect the projector and the computer via a LAN access point.

When connecting to a network via Wired LAN, connect the projector to the network hub with a commercially available LAN cable.



## Preparing to Connect

Follow the steps below to connect the computer and the projector via a network using EasyMP Network Projection.

**1** Install EasyMP Network Projection on the computer to be connected.

☛ "Installing" p.7

**2** Make network settings on the computer and put it into network connection status.

See the documentation supplied with your the computer, LAN adapter, or AirPort card for details on network settings.

When the computer you are using is normally connected to the network, you do not need to make network settings on the computer.

**3** **For Quick Connection Mode**

Install the Wireless LAN unit to the projector.

**For Advanced Connection Mode**

Make network settings on the projector and put it into network connection status.

You can make network settings from the projector's **Network** menu.

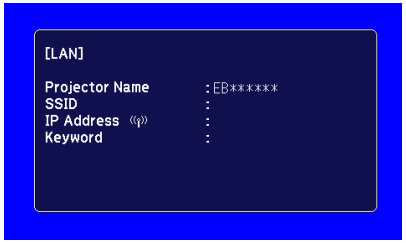
See the following manual for details.

☛ *User's Guide*

**4** Press the [LAN] button on the remote control.

The LAN standby screen is displayed.

If there is no signal for the current input source, it automatically switches to the LAN source. If it does not automatically switch to the LAN source, press the [LAN] button.




**5** Start EasyMP Network Projection on the computer and connect with the projector.

☛ "Connecting to a Projector on a Network and Projecting" p.11

If a connection error occurs, a number indicating the type of error is displayed as follows.

Event ID: 04xx

See the following manual for details on Event ID.

☛ *User's Guide*

## Operating the Computer

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

**1** Start EasyMP Network Projection.

**For Windows**

Click **Start**, select **Programs** (or **All Programs**), **EPSON Projector**, **EasyMP Network Projection**, and then click **EasyMP Network Projection V2.XX**.

**For Mac OS X**

Double-click **EasyMP Network Projection** from the **Applications** folder.

**2** Select **Quick Connection Mode** or **Advanced Connection Mode**, and then click **OK**.

☛ "Two Connection Modes" p.9

The projector search results are displayed. To always connect using the selected 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.
See the following section for details on the connection screen.

☛ "Using the Connection Screen" p.12

**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. See the following section for details on the toolbar.

☛ "Using the Toolbar" p.14

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.

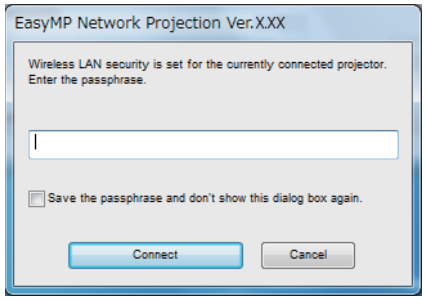
If a connection is made while **Disable interrupt connection** is set, the connection is not switched to another computer.

### Security dialog displayed when connecting

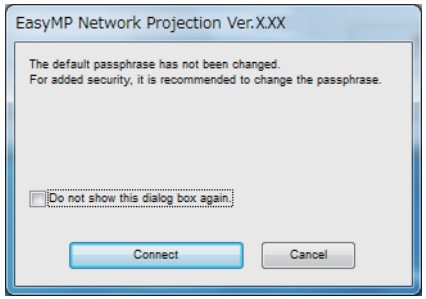
In Quick Connection Mode, the following dialog box may be displayed when connecting to a projector with security settings enabled.

**For Windows Vista/Windows 7**

- Enter the passphrase set on the projector. If you select **Save the passphrase and don't show this dialog box again.** the projector's SSID and passphrase are saved on the computer and this dialog box is not displayed the next time you connect. You do not have to enter the passphrase again.




- The following dialog box is displayed if the projector's passphrase has not been changed from the default. Change the passphrase from the projector's **Network** menu.



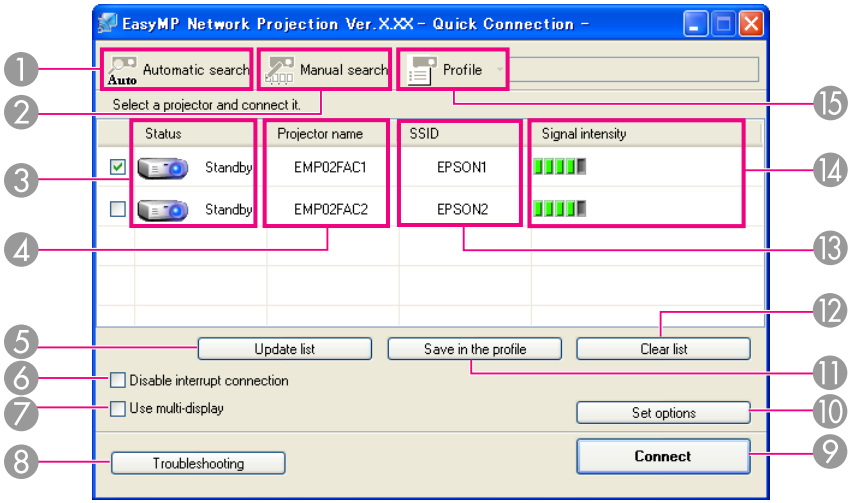

**For Windows 2000/XP**

You cannot connect to a projector with security settings enabled. Set **Security** to **Off** in the projector's Configuration menu.

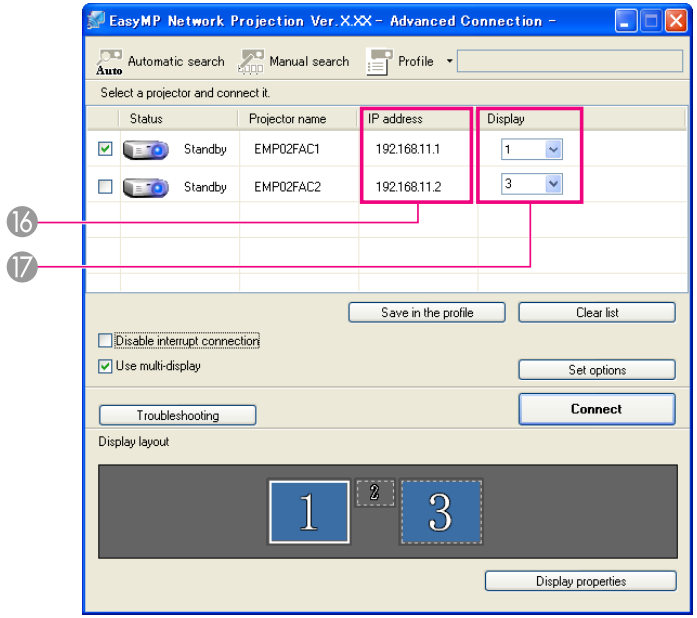
## Using the Connection Screen

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 Quick Connection Mode.**



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




1 **Automatic search**

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

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

2 **Manual search**

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

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

3 **Status**

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

| | | |
|---|---|---|
| | Standby | Available. |
| | Busy | Available. 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 | The projector's Configuration menu is open. You can select it after closing the Configuration menu and running the search again. |
| | 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. |
| | Not acquired | Available. Displayed when a projector with security settings enabled is found in Quick Connection Mode. |

4 **Projector name**

The projector's name is displayed.

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

Updates Status and Signal intensity.

6 **Disable interrupt connection**

Select this to prevent an interrupt connection by other computers while connected to the selected projector.

7 **Use multi-display**

Select this when using the Multi-screen display function. When this is selected, Display layout and Display properties are displayed at the bottom of the screen.

☛ "Using Multi-Screen Display" p.26

8 **Troubleshooting**

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

9 **Connect**

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

⑩ **Set options**

You can make option settings such as the processing method when EasyMP Network Projection starts.

☛ "Set options" p.35

⑪ **Save in the profile**

Saves the results of a network projector search as a profile.

☛ "Making a Profile" p.18

⑫ **Clear list**

Deletes all search results.

⑬ **SSID** (Quick Connection Mode only)

The projector's SSID is displayed.

⑭ **Signal intensity** (Quick Connection Mode only)

As the Signal intensity increases, so does the number of lit indicators.

⑮

**Profile**

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

☛ "Performing a Search with a Profile" p.18

⑯ **IP address** (Advanced Connection Mode only)

The projector's IP address is displayed.

⑰ **Display**

Select the display number (when **Use multi-display** is selected).

☛ "Projecting the Allocated Images" p.32

## Using the Toolbar

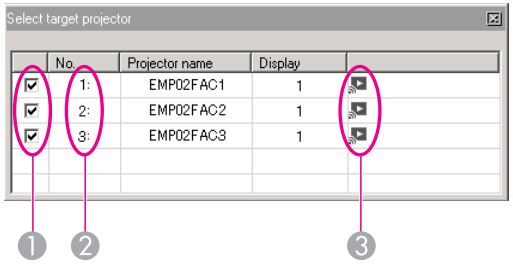
The toolbar is displayed on the computer screen after EasyMP Network Projection starts and a connection is made with the projector. You can use this toolbar to operate and make settings for the projector.

**Select target projector**

Click to limit the projector 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.




1. Select the projector to be controlled.
2. Indicates the No. of an allocated projector. This No. appears under the icon to indicate the No. of the projector that you can control from the toolbar.
3. 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**

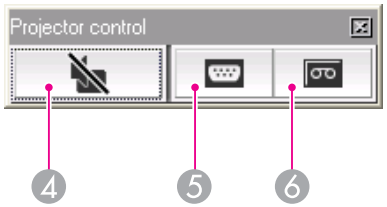
Each time this is clicked, Presentation Mode switches between enabled/disabled.

☛ "Projecting Only a PowerPoint Slide Show (Presentation Mode)" 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 both the remote control and the projector's control panel.

Click to display the following toolbar.



**4 A/V Mute**

Turns the video and audio on or off.

**5 Switch PC source**

Changes to images from the port where the signal is being input.

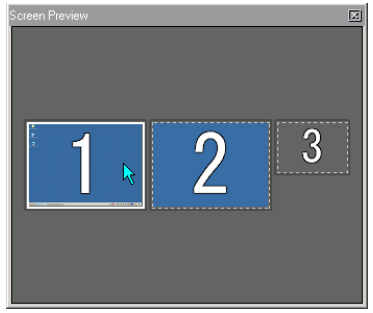
**6 Switch video source**

Changes to images from the video 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.

☛ "Set options" p.35

**Movie Sending Mode**

Used to immediately playback a movie file. If the projector cannot playback movies, the message "The connected projectors do not support Movie Sending." is displayed.

☛ "Playing Movies" p.24

**Disconnect**

Disconnects the connection to the projector.

**Signal intensity** (Quick Connection Mode only)

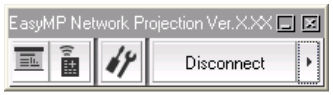
This is displayed when the connection is made in Quick Connection Mode. As the Signal intensity increases, so does the number of lit indicators.

**Switch toolbar display**

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

Full

Normal




Simple

You can connect the projector and the computer and project to screens at remote locations (on different subnets).

In Automatic search, projectors on different subnets are not found because searches are only performed on the same subnet.

You can use the following methods to connect to a projector on a different subnet.

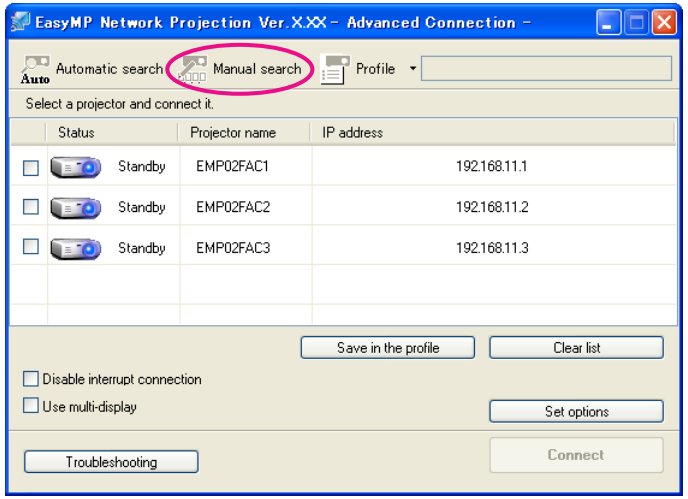
- Specify either an IP address or projector name and perform a search.
  The IP address can be input directly. Also, provided the projector name to be connected has been registered on the DNS server, you can perform a search simply by inputting that projector name.
  ☛ "Specifying Either an IP Address or Projector Name and Performing a Search (Advanced Connection Mode Only)" p.17
- Perform 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.
  ☛ "Performing a Search with a Profile" p.18

- If you cannot find a projector, see the following section for the most likely causes.
  ☛ "Troubleshooting" p.42
- 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.

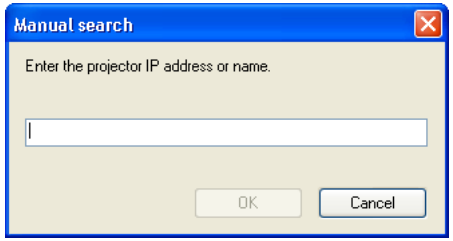
## Specifying Either an IP Address or Projector Name and Performing a Search (Advanced Connection Mode Only)

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

**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.
Once you have saved projector information as a profile, you do not have to specify the relevant details every time you perform a search.

☛ "Making a Profile" p.18

## 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. You can specify a profile to search for a projector instead of specifying relevant details such as the IP address and projector name. 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.

This section explains how to create, edit, and manage a profile.

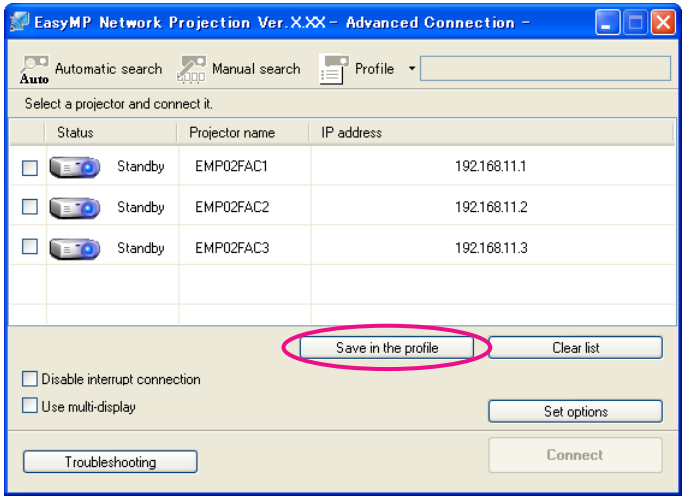
### Making a Profile

Profiles are made by saving search results.

For details on how to edit a previously saved profile, see the following section.

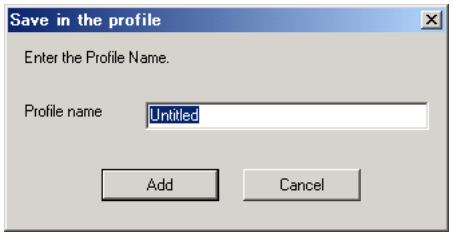
☛ "Managing a Profile" p.20

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




The Save in the profile screen is displayed.

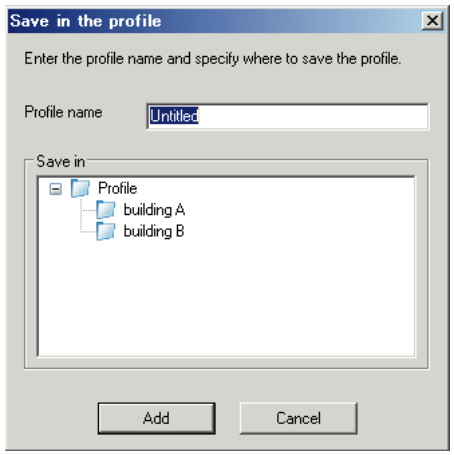
**2** Enter a Profile name, and then click **Add**.



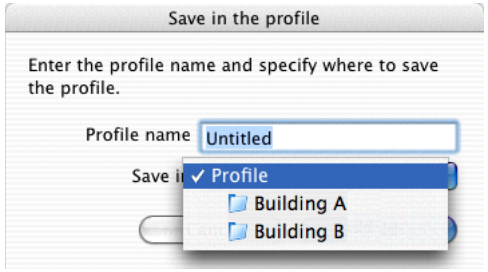

Projector information is registered in the profile.
If you have previously saved a profile, you are prompted to confirm whether or not to overwrite. To save a profile with a different name, select **Save as**. If you have created a folder for profiles, one of the

following screens is displayed. After entering the Profile name and selecting the **Save in** destination, click **Add**.

**For Windows**




**For Mac OS X**




For details on how to create a folder for profiles, see the following section.

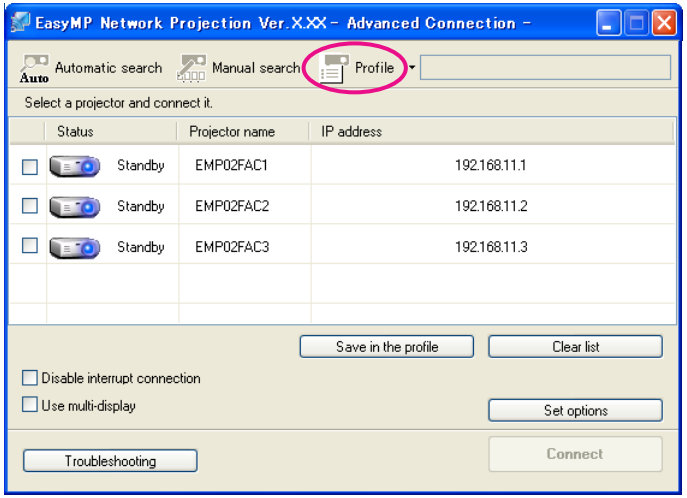
☛ "Managing a Profile" p.20

## Searching by specifying a Profile

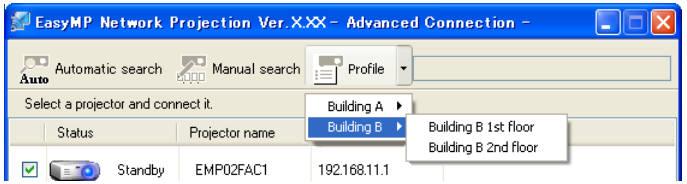
You can search by specifying the profile you created.

**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.



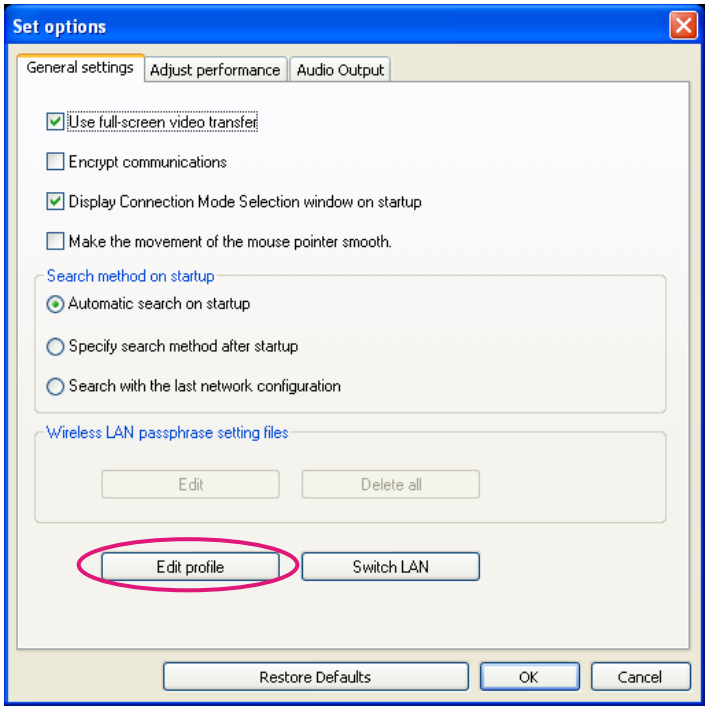

The search results are displayed on the EasyMP Network Projection projector selection screen.
Provided the target projector has been identified, select that projector, and then click **Connect** to establish a connection.

## Managing a Profile

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

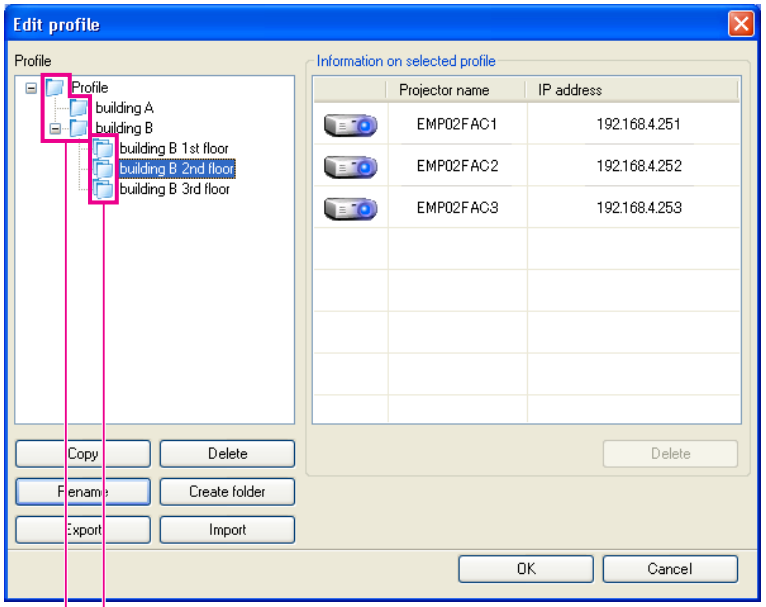
1. Click **Set options** on the EasyMP Network Projection main screen.
   The Set options screen is displayed.

2. Click **Edit profile**.




   The Edit profile screen is displayed.

3. Edit the contents registered in the profile.




❶ : Indicates a profile.

❷ : Indicates a folder.

| Profile | |
|---|---|
| **Item** | **Function** |
| **Profile** | You can display the registered profile. You can manage it by creating a folder. |
| **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. |

| Profile | |
|---|---|
| **Item** | **Function** |
| **Rename** | You can display the Rename dialog box to 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** | You can export the profile. Exported profiles can be used as backup files. You can import them with another computer. |
| **Import** | You can load an exported profile. |

| Information on selected profile | |
|---|---|
| **Item** | **Function** |
| **Projector name** | The projector information registered in the profile is displayed. |
| **SSID or IP address** | |
| **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.

# Various Projection Styles

This chapter explains the functions that may be useful in a meeting or presentation, such as the Multi-Screen Display which allows you to send images to multiple projectors from a single computer.

By using Presentation Mode, you can project only the PowerPoint Slide Show running on your computer. A black screen is projected when the Slide Show is not playing. You can start presentations smoothly without projecting unnecessary images.

In addition to PowerPoint, Keynote is compatible with Presentation Mode for Mac OS X.

To set Presentation Mode to On or Off, click the button.

☛ "Using the Toolbar" p.14

You can send movie files to the projector using Movie Sending Mode. This allows movies to be played more smoothly than by projecting them played with other applications on a computer.

You can also select multiple files and play them repeatedly from first to last.

However, some projectors may not support movie files.

- You can use Movie Sending Mode to send a movie to a single projector.
  Sending a movie to multiple projectors simultaneously is not possible with Movie Sending Mode.
- The image and sound may skip or stop depending on the communication method and electromagnetic wave conditions.

## Supported Files

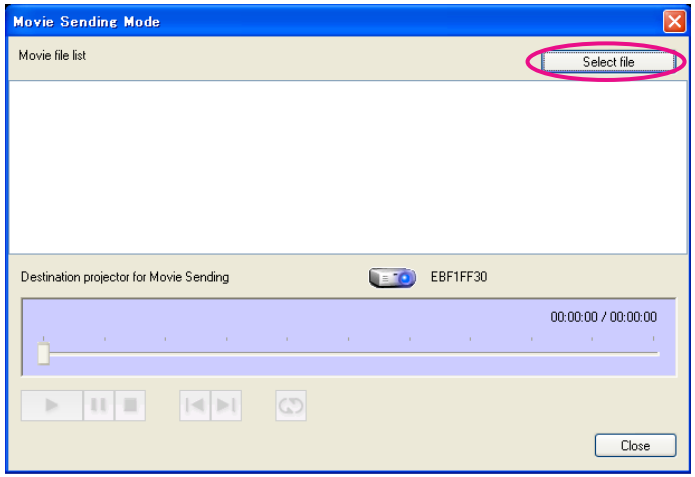
The following table indicates the specifications for files supported by Movie Sending Mode.

| File Type (Extension) | Movie Codec | Audio Codec | Recording Quality |
|---|---|---|---|
| .mpg<br>.mpeg | MPEG-2 | MPEG-1 Layer 1/2<br>You can play MPEG contents without audio. Linear PCM and AC-3 are not supported. | Maximum frame rate: 30 fps<br>Maximum resolution: 1280x720 |
| .mp4 | MPEG-4 ASP<br>H.264/MPEG-4 AVC | MPEG-4<br>AAC-LC | |
| .wmv<br>.asf | WMV9 | WMA | |

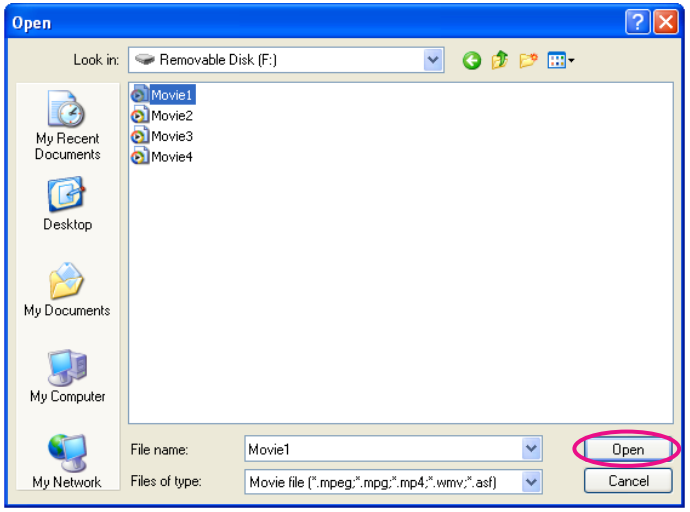
You cannot project files protected by digital rights management (DRM).

## Playing Movies

1. Click the button on the toolbar.
   The projector selection screen is displayed.
2. Select the projector, and then click **OK**.
   The Movie Sending Mode screen is displayed.
3. Click **Select file**.




4. Select a movie file to play, and then click **Open**.




The Movie Sending Mode screen is displayed again. The selected file is displayed in the Movie file list.

If you click **Select file**, the Movie file list is updated with items you select later.

**5** Play and stop the movie file on the Movie Sending Mode screen.

**Position indicator**
Starts playing the file from the point at which it is dragged and dropped.

**Play**
Plays the file.

**Pause**
Pauses playback.

**Stop**
Stops playback.

**Back**
Plays the current file from the beginning.

**Next**
Plays the next file from the beginning.

**Repeat**
Plays repeatedly from the first file in the list. You cannot repeat one specific file when there are multiple files in the list.

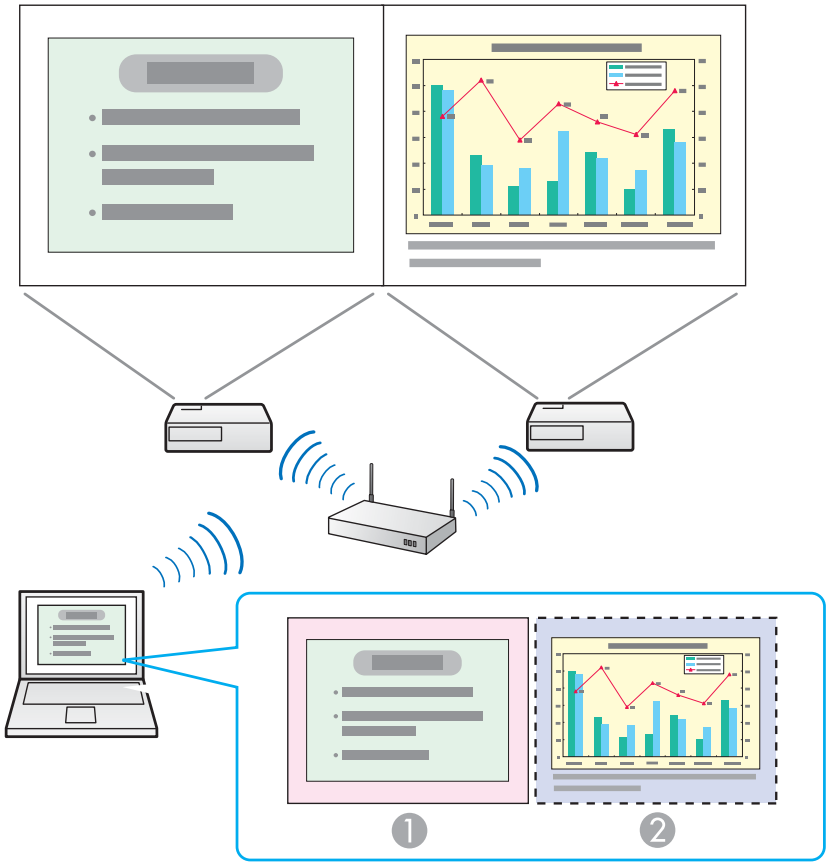
**6** Click **Close** to exit Movie Sending Mode.

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 is not available with Windows Vista and Windows 7.
For Mac OS X, 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 X the operation relates to the screens displayed on the physically connected monitor.

## Example of Adjusting the Virtual Display

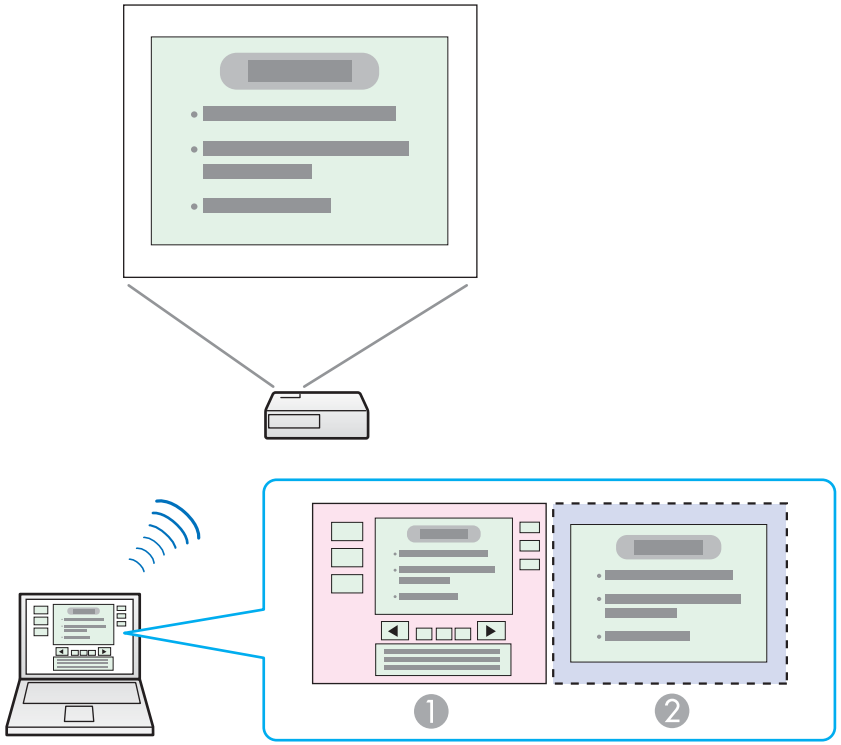
By arranging the virtual display allocation, you can project only the image that you want to show or project different images from left to right in a presentation.

**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** Set the virtual display.

☛ "Setting the Virtual Display" p.27

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

**2** Allocate the image to be projected.

☛ "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** Project the allocated images.

☛ "Projecting the Allocated Images" p.32

Allocate a virtual display number to a projector, and then start projection.

## Setting the Virtual Display

This section explains the virtual display for arrangement example 1.

☛ "Example of Adjusting the Virtual Display" p.26

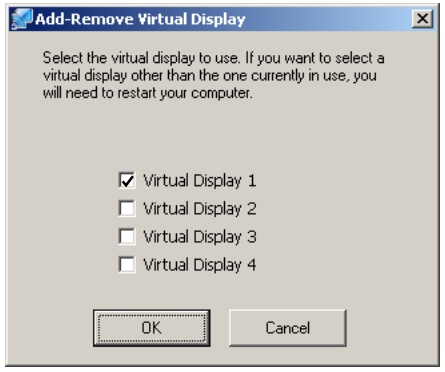
### Enable the virtual display driver (Windows only)

Enable the virtual display driver. If you have already enabled the virtual display while installing EasyMP Network Projection, this operation is not necessary. Go to the following section.

☛ "Adjusting the Virtual Display" p.28

1 Click **Start**, select **Programs** (or **All Programs**), **EPSON Projector**, **EasyMP Network Projection**, and then click **Add-Remove Virtual Display**.

The Add-Remove 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 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 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 X. 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.

- The SSID for the computer and each projector must be the same. (For Quick Connection Mode)
- 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 projector's **Network** menu.

See the following manual for details.

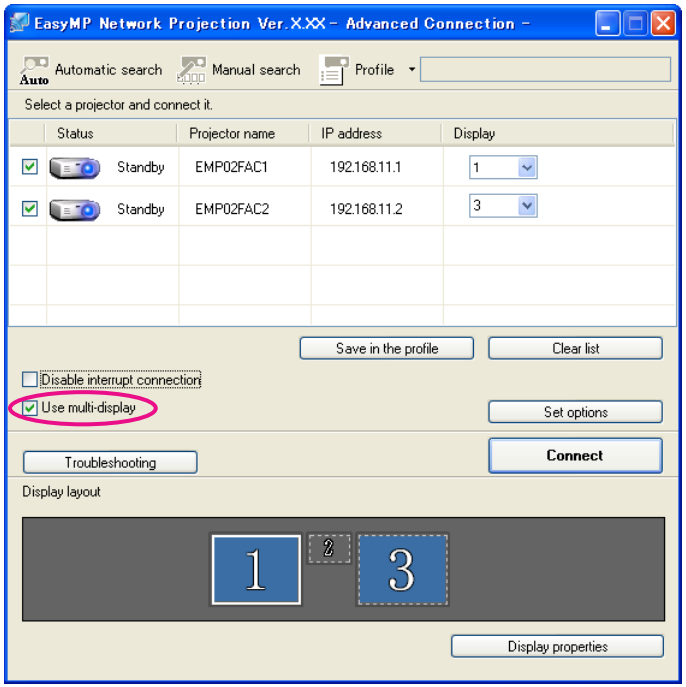
☛ *User's Guide*

**For Windows**

1 Click **Start**, select **Programs** (or **All Programs**), **EPSON Projector**, **EasyMP Network Projection**, and then click **EasyMP Network Projection V2.XX** to start EasyMP Network Projection.

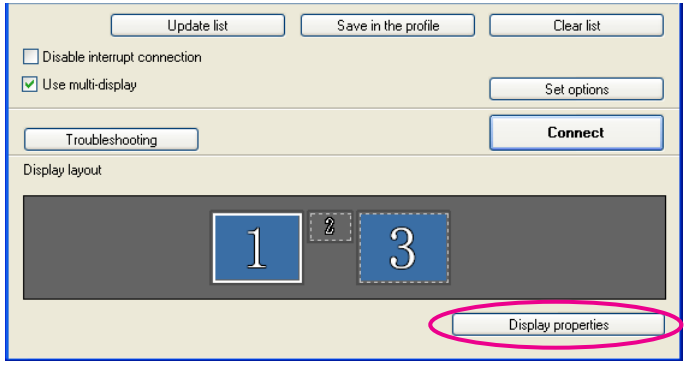
2 Select **Quick Connection Mode** or **Advanced Connection Mode**, and then click **OK**.

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



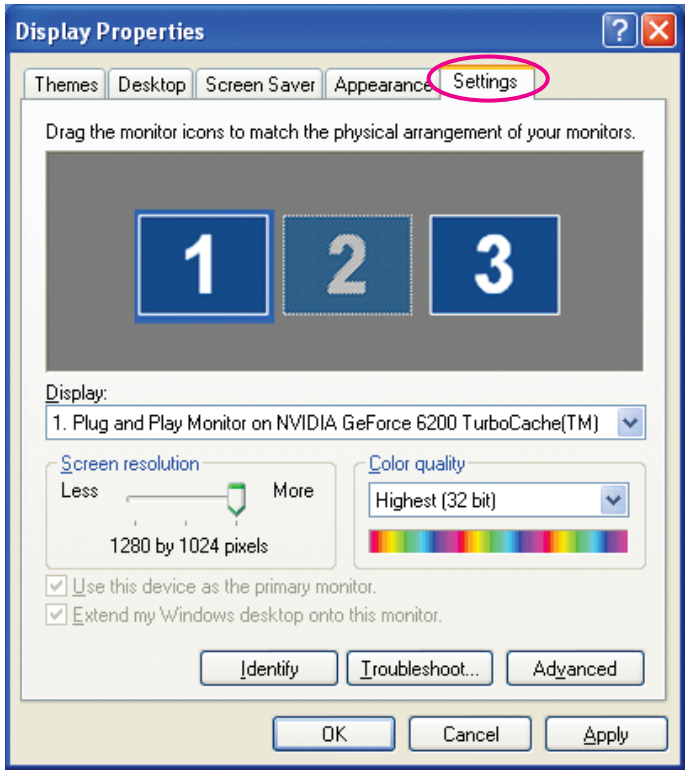

Display layout and Display properties are added at the bottom of the screen.

**4** Click **Display properties**.



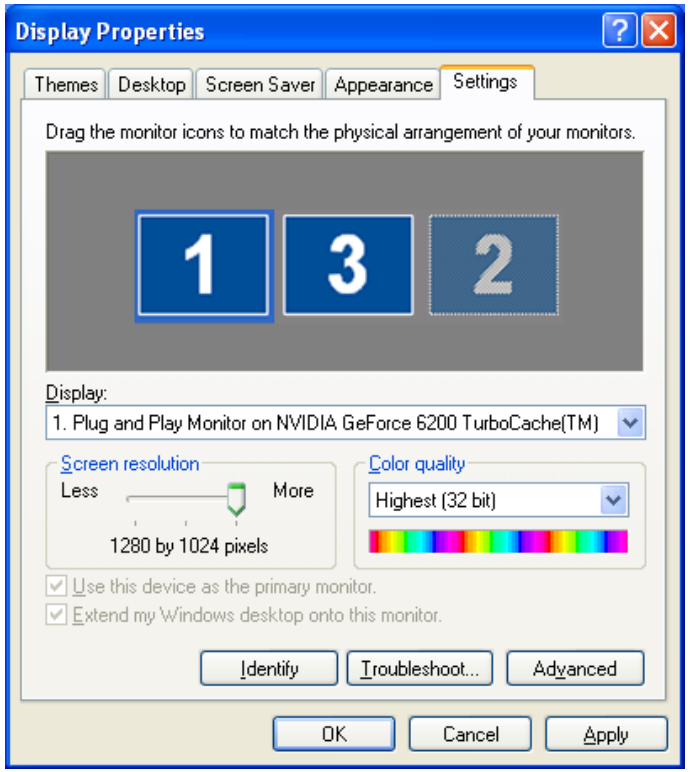

The Display Properties screen is displayed.

**5** Click the **Settings** tab.



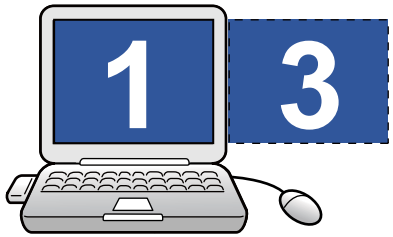

**6** Drag the displayed monitor icon and place it where desired.

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 placing the monitor icons, click the icon to check that the display monitor type is not the secondary monitor.
- For the Screen Resolution settings, see the following.
  ☛ "Supported Resolutions" p.40

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




**7** Click **OK** to close the Display Properties screen.

Allocate the projecting images next.

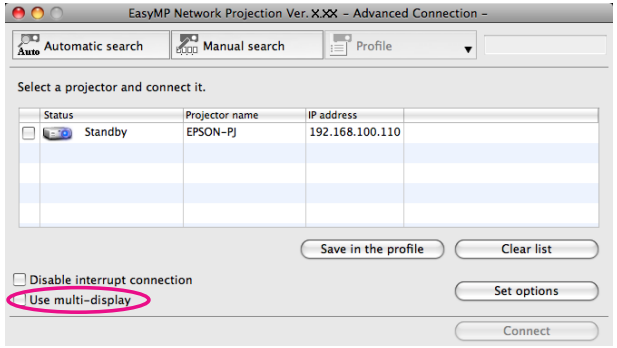
☛ "Allocating the Image to be Projected" p.32

**For Mac OS X**

**1** Double-click **EasyMP Network Projection** from the **Applications** folder to start EasyMP Network Projection.

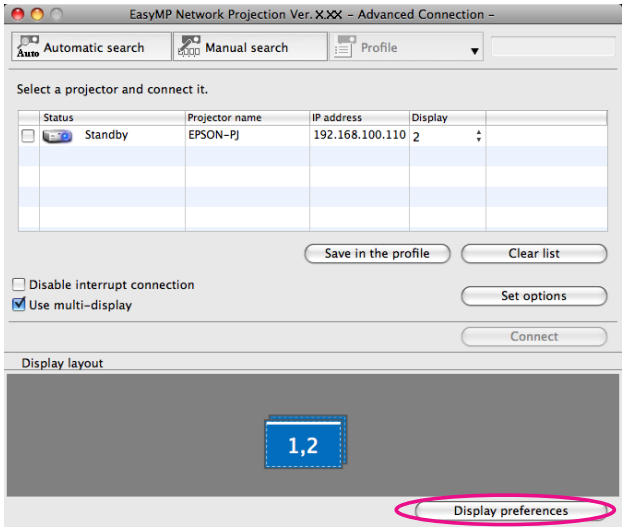
**2** Select **Quick Connection Mode** or **Advanced Connection Mode**, and then click **OK**.

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



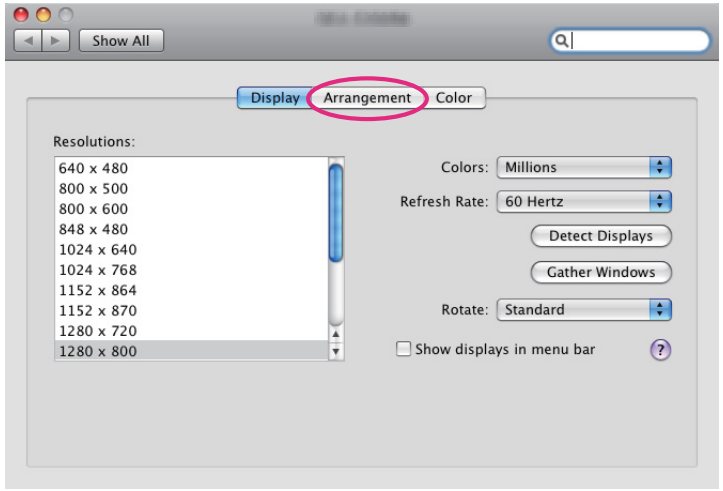

Display layout and Display preferences are added at the bottom of the screen.

**4** Click **Display preferences**.

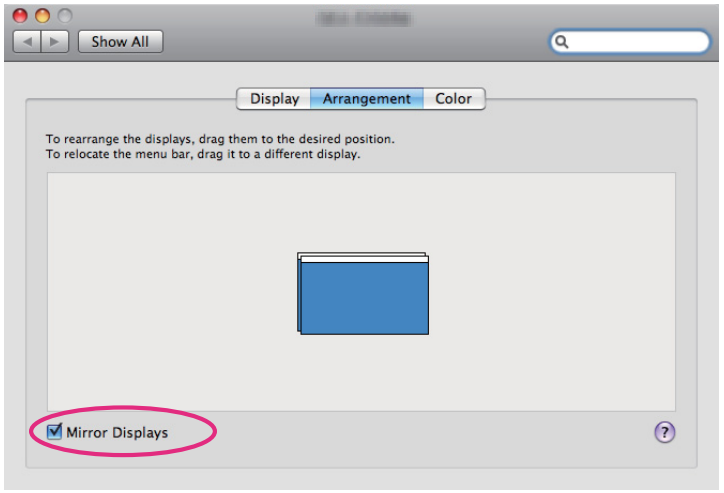



The display setting screen is displayed.

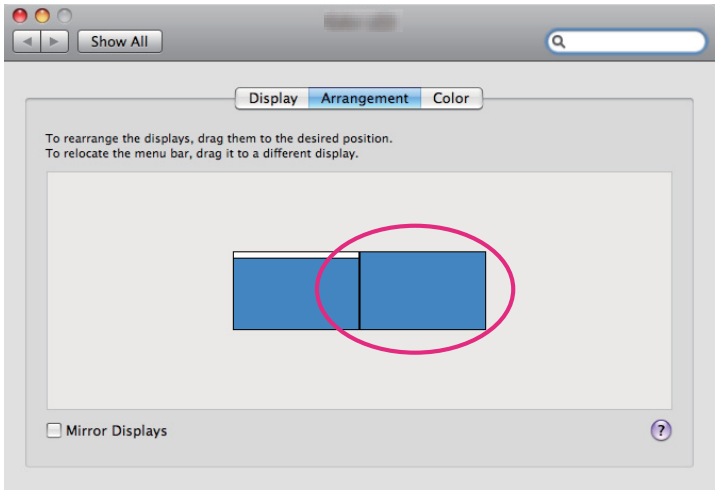
**5** Click **Arrangement**.




**6** Clear the **Mirror Displays** check box.




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




**8** Close the display setting screen.

Allocate the projecting images next.

☛ "Allocating the Image to be Projected" p.32

## Allocating the Image to be Projected

This section explains the virtual display for arrangement example 1.

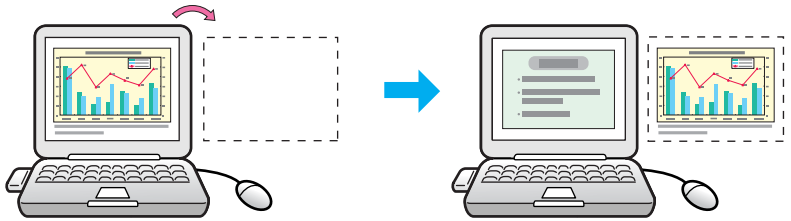
☛ "Example of Adjusting the Virtual Display" p.26

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

Open 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. The PowerPoint window appears on the actual monitor, while the Excel window appears on the virtual display on the right.

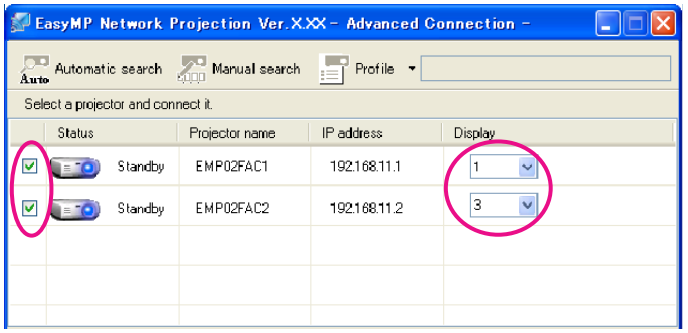


## Projecting the Allocated Images

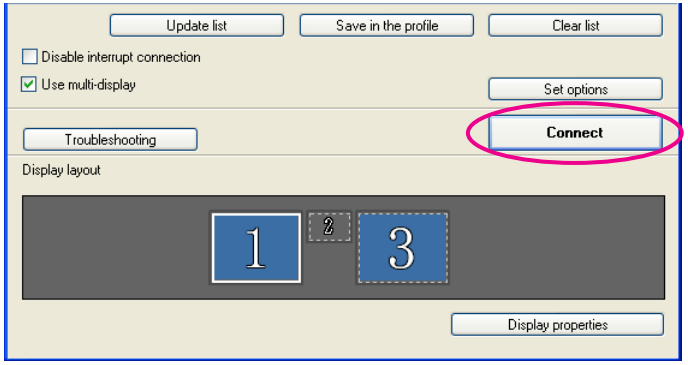
This section explains the virtual display for arrangement example 1.

☛ "Example of Adjusting the Virtual Display" p.26

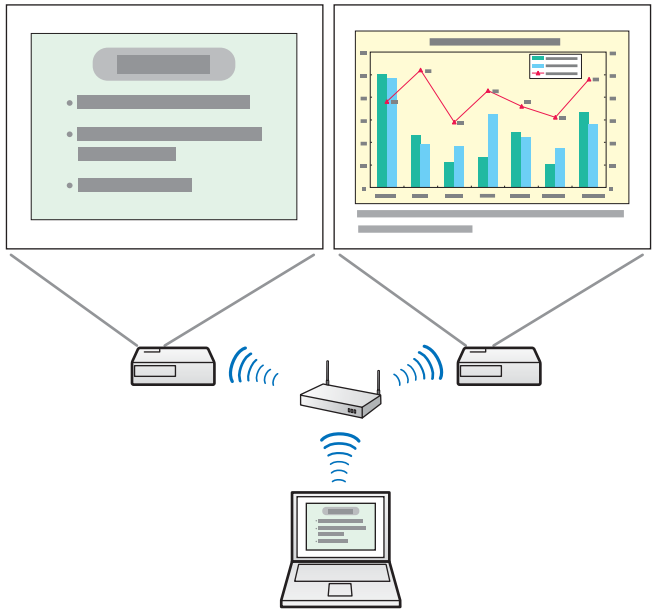
**1** Select the number of the virtual display to allocate on the **Display**, and set which image to be projected from which projector.




**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 so that the pointer appears on the virtual display.

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

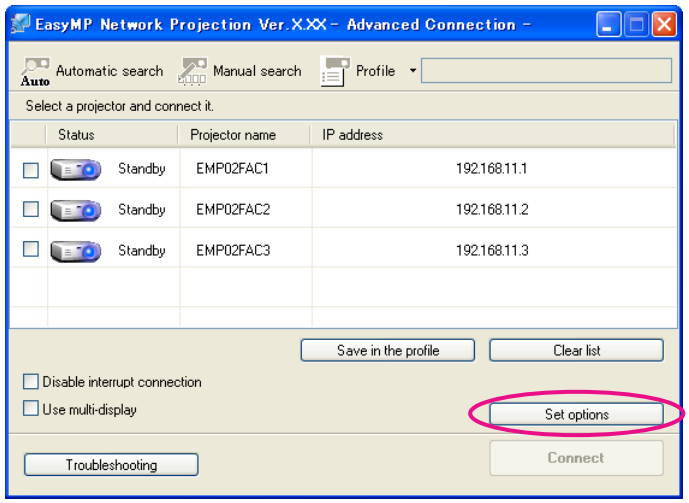
In a Windows environment, if the virtual display driver has been enabled so that the mouse pointer can be moved outside the limits of the screen, there may be occasions when you lose track of the location of the pointer. If you are not using a virtual display, clear the virtual display checkbox on the Add-Remove Virtual Display screen so that the mouse pointer moves back inside the screen's display area. To subsequently use multi-display again, place a check mark against the required display under Add-Remove Virtual Display.
To clear a check mark, see the following.

☛ "Enable the virtual display driver (Windows only)" p.27

# Appendix

You can make option settings such as the processing method when EasyMP Network Projection starts.
Access Set options from the main screen of EasyMP Network Projection.

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



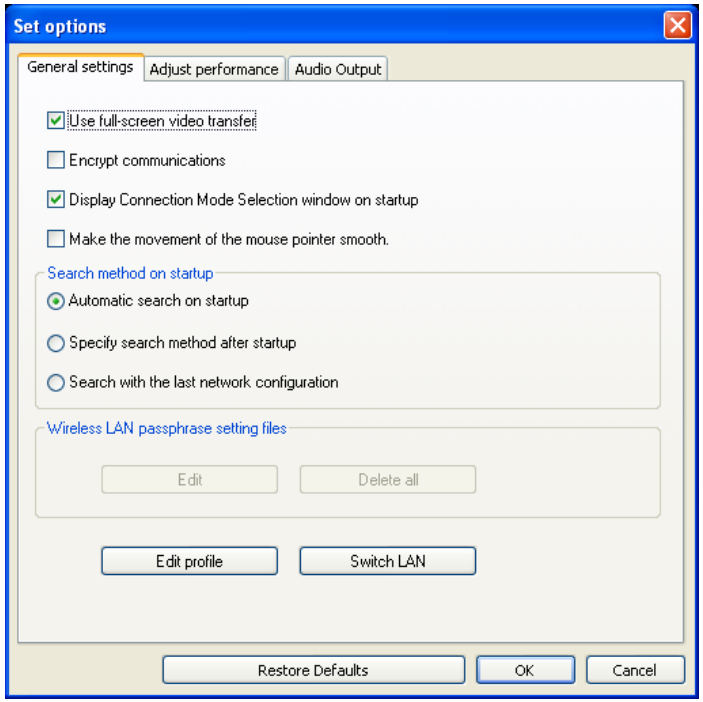

The Set options screen is displayed.

**2** Set each of the items.

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

You can also access Set options by clicking on the toolbar. When you access Set options from toolbar, the General settings tab is not displayed.

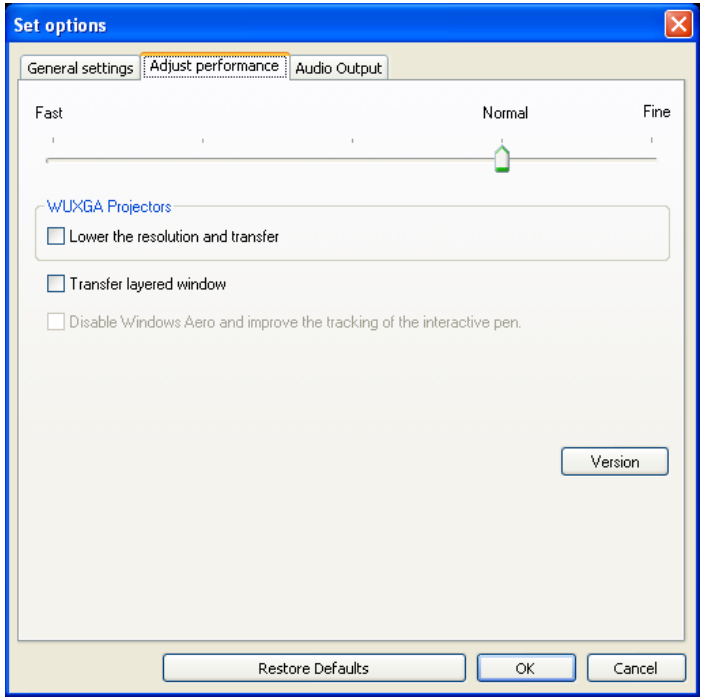
## General settings tab




| | |
|---|---|
| **Use full-screen video transfer** | Plays back a movie file at full screen. If the projector does not support movie sending, this function cannot be set. |
| **Encrypt communications** | Select to encrypt and transmit data. Even if data is intercepted, it cannot be decrypted.<br>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.<br>Clear this checkbox once you have settled on a regular startup method. |

| | |
|---|---|
| **Make the movement of the mouse pointer smooth** | Windows only (except for Windows 2000)<br>Select to prevent the mouse pointer from flickering when **Transfer layered window** is selected in **Adjust performance**. (When Windows Aero is selected as the theme in Windows Vista/7, Windows Aero turns off by selecting this setting. ) |
| **Search method on startup** | Select from the following projector search methods executed when EasyMP Network Projection is started.<br>**Automatic search on startup**<br>**Specify search method after startup**<br>**Search with the last network configuration** |
| **Wireless LAN passphrase setting files** | Not available for Windows 2000/XP.<br>In Quick Connection Mode, SSIDs and passphrases are stored on the computer when connecting to a projector with security settings enabled. You can edit and delete the stored information.<br>**Edit**: Displays the wireless network management screen for the computer.<br>**Delete all**: Deletes all the SSIDs and passphrases stored on the computer. |
| **Edit profile** | The Edit profile dialog box is displayed.<br>☛ "Managing a Profile" p.20 |
| **Switch LAN** | Windows only<br>This is used when it is necessary to switch the network adapter to be used for a search when a computer has multiple adapters.<br>By default, all of the network adapters are used to perform a search. |
| **Restore Defaults** | You can reset all adjustment values for **Set options** to their default settings. However, you can retain settings for **Edit profile** and **Switch LAN** in **General settings**. |

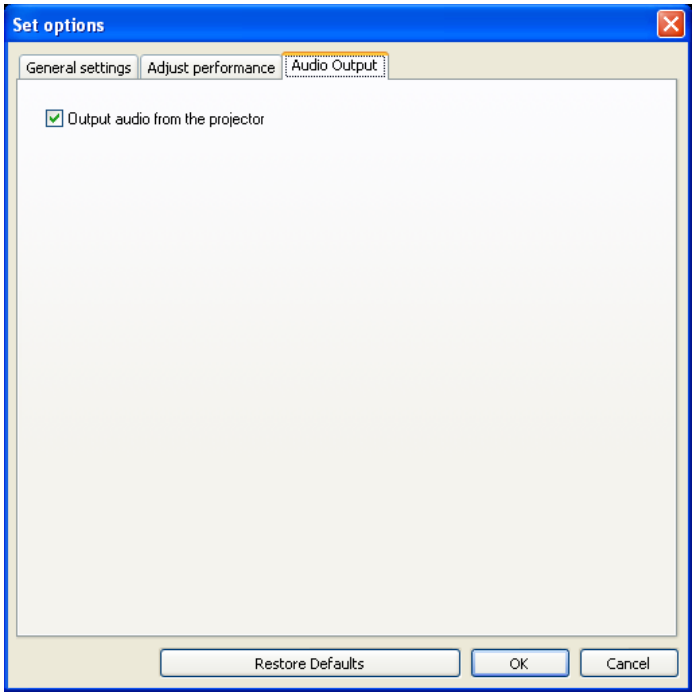
## Adjust performance tab




| | |
|---|---|
| **Performance adjustment slider** | The performance can be set to **Fast**, **Normal**, and **Fine**.<br>Set to **Fast** when movie projections are interrupted. |
| **Lower the resolution and transfer** | Only available for projectors with a resolution of WUXGA (1920x1200).<br>Select to reduce the size of the data to be transferred to the projector by lowering the resolution. Use this option on a slow network or when displaying the image takes too long or is interrupted. |

| | |
|---|---|
| **Transfer layered window** | Windows only (excluding Windows Vista and Windows 7).<br>The layered window is in use when contents such as messages displayed on the computer are not projected by the projector. Select this check box to project contents such as messages that use the layered window.<br>If the mouse pointer flickers on the screen, select **Make the movement of the mouse pointer smooth** in **General settings**. |
| **Disable Windows Aero and improve the tracking of the interactive pen** | Only available when Windows Aero is selected as the theme.<br>Select to improve the tracking delay for the interactive pen. Windows Aero is disabled and interactive pen operations become smoother. |
| **Restore Defaults** | You can reset all adjustment values for **Set options** to their default settings. However, you can retain settings for **Edit profile** and **Switch LAN** in **General settings**. |

## Audio Output tab




| | |
|---|---|
| **Output audio from the projector** | Select to output the computer's audio from the projector. Clear to output audio from the computer. However, when playing movies with audio in Movie Sending Mode, audio is always output from the projector regardless of this setting. |
| **Restore Defaults** | You can reset all adjustment values for **Set options** to their default settings. However, you can retain settings for **Edit profile** and **Switch LAN** in **General settings**. |

Audio can only be transferred to one projector. Audio cannot be transferred when connected to multiple projectors.

Make sure you check the following points before starting uninstallation.

- For Windows, you need administrator authority to uninstall EasyMP Network Projection.
- Close all running applications before starting uninstallation.

**For Windows 2000**

1. Click **Start**, select **Settings**, and then click **Control Panel**.
2. Double-click **Add/Remove Programs**.
3. Click **Change or remove program**.
4. Select EasyMP Network Projection, and then click **Change/Remove**.

**For Windows XP**

1. Click **Start**, and then click **Control Panel**.
2. Double-click **Add or Remove Programs**.
3. Select EasyMP Network Projection, and then click **Change/Remove**.

**For Windows Vista/Windows 7**

1. Click **Start**, and then click **Control Panel**.
2. Click **Uninstall a program** from the **Programs** category.
3. Select EasyMP Network Projection, and then click **Uninstall/Change**.

**For Mac OS X**

1. Open the **Applications** folder.
2. Open the **EasyMP Network Projection** - **Tools** folder, and then double-click **EasyMP Network Projection Uninstaller.app** to uninstall the software.

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 whose resolution is greater than WUXGA.

- VGA (640x480)
- SVGA (800x600)*
- XGA (1024x768)*
- SXGA (1280x960)
- SXGA (1280x1024)*
- SXGA+ (1400x1050)*
- WXGA (1280x768)*
- WXGA (1280x800)*
- WXGA+ (1440x900)*
- UXGA (1600x1200)
- WUXGA (1920x1200)

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

When using a computer screen with a unique aspect ratio, depending on the resolution of the computer and the projector, the resolution is increased or decreased so as not to impair the image quality.

Depending on the resolution, at times the vertical or horizontal margins may be projected in black.

## Display Color

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

| Windows | Mac OS X |
|---|---|
| 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.

## Other Limitations

- If the transmission speed of the wireless LAN is low, the network might be cut off unexpectedly.
- Applications that use part of 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.
- Movies are not played as smoothly as they are on a computer.

## 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 or Windows Live Photo Gallery

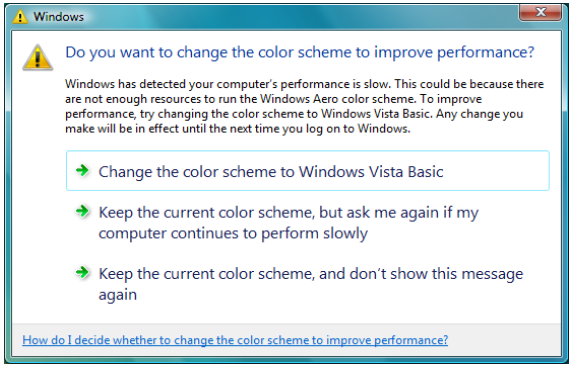
Note the following two limitations when launching Windows Photo Gallery or Windows Live Photo Gallery when EasyMP Network Projection is running.

- Slideshow is played back in simple mode when projecting from Windows Photo Gallery or Windows Live Photo Gallery.
  Because the toolbar is not displayed, you cannot change the Theme (effects) while playing a slide show, regardless of the Windows Experience Index rating.
  Once simple mode has started, you cannot change modes while Windows Photo Gallery or Windows Live Photo Gallery is running even if you close EasyMP Network Projection. Restart Windows Photo Gallery or Windows Live 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.

- The layered window is projected regardless of Transfer layered window from Set options in EasyMP Network Projection.
  For example, when Transfer layered window for the EasyMP Network Projection toolbar is disabled, it is not projected even if it is displayed on the computer screen, however the toolbar is projected.
- A few minutes after you connect a computer to the projector over a network with EasyMP Network Projection, the following message may be 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.

# Cannot connect to the projector you want to use.

## Cannot connect the projector and the computer via wireless LAN.

| Check | Remedy |
|---|---|
| Is the Wireless LAN unit connected? | Check that the Wireless LAN unit is securely connected. |
| Is the SSID the same as that of the access point?<br>(For Quick Connection Mode) | Set an SSID that is different from that of the access point.<br>You can make the SSID setting from the projector's **Network** menu.<br>See the following manual for details.<br>☛ *User's Guide* |
| Is the DHCP function for Wired LAN turned On?<br>(For Quick Connection Mode) | Set the **DHCP** setting to **Off** from **Wired LAN** in the Configuration menu.<br>See the following manual for details.<br>☛ *User's Guide* |
| Is the computer's wireless LAN function working? | Check that the wireless LAN adaptor or wireless LAN card is installed on the computer. |
| 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? | Sometimes the indoor environment 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 improve communication. |
| Is the computer's wireless LAN radio strength set to low? | Set the radio strength to maximum. |
| Does the wireless LAN system meet the supported specifications? | Check the wireless LAN system. See the following manual for details on the projector's wireless LAN system.<br>☛ *User's Guide* |
| Is the Wireless LAN Power set to Off in the projector's Configuration menu? | Set **Wireless LAN Power** to **On** in the **Wireless LAN** menu from the Configuration menu.<br>See the following manual for details on the projector's wireless LAN settings.<br>☛ *User's Guide* |
| Is the AirPort setting for Mac OS X correct? | Check that AirPort is set to on. Or, check whether an appropriate access point has been selected. |
| Is the same WEP key set? | When selecting **WEP** from **Security**, set the access point, the computer, and the projector to the same WEP key.<br>See the following manual for details on the WEP key.<br>☛ *User's Guide* |

## Cannot connect the projector and the computer via wired LAN.

| Check | Remedy |
|---|---|
| Are the computer's LAN card and the built-in LAN function available? | Check that LAN is available from the device manager under **Control Panel** - **System** - **Hardware**. |
| Is the network cable connected correctly? | Check that the network cable is connected correctly. Reconnect it if it is not connected or not connected properly. |

## Cannot connect the projector and the computer via the network.

| Check | Remedy |
|---|---|
| Is the network configuration screen displayed on the projector? | Close network settings on the projector, and return to the LAN standby screen. If the network configuration screen is displayed on the projector, you cannot connect using EasyMP Network Projection. |
| 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**.<br>☛ "General settings tab" p.35 |
| 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.<br>The ports used by EasyMP Network Projection are "3620", "3621", and "3629". |
| Is the SSID setting different?<br>(For Advanced Connection Mode) | Set the computer, the access point, and the projector to the same SSID.<br>You can make the SSID setting from the projector's **Network** menu.<br>See the following manual for details.<br>☛ *User's Guide* |
| Are the connection denial functions, such as MAC Address restrictions and port restrictions, set correctly at the access point?<br>(For Advanced Connection Mode) | Set connection permission at the access point to allow projectors to connect. |
| Are the IP address, the subnet mask, and the gateway address for the access point and the projector set correctly?<br>(For Advanced Connection Mode) | When not using a DHCP, adjust each setting.<br>You can make the DHCP setting from the projector's **Network** menu.<br>See the following manual for details.<br>☛ *User's Guide* |

| Check | Remedy |
|---|---|
| Are the access point and the projector's subnet different?<br>(For Advanced Connection Mode) | Select **Manual search** from EasyMP Network Projection, specify the IP address, and connect.<br>☛ "Specifying Either an IP Address or Projector Name and Performing a Search (Advanced Connection Mode Only)" p.17 |
| Have you enabled DHCP?<br>(For Advanced Connection Mode) | When DHCP is set to **On** in Advanced Connection Mode, it may take some time to enter LAN standby status if an available DHCP server is not found. |

### 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 computer currently connected can be disconnected when another computer tries to connect to the projector.<br>Therefore, when a Projector Keyword is not set for the projector, or if you know the Projector Keyword, you can disconnect the computer currently connected and then connect your computer to the projector.<br>When a Projector Keyword is set for the projector and you do not know the Projector Keyword, restart the projector and reconnect. |

### Cannot select or change the connection mode.

| Check | Remedy |
|---|---|
| Is EasyMP Network Projection set to start up using the same connection mode? | Select **Display Connection Mode Selection window on startup** on the **General settings** tab from **Set options**. The projector selection screen is displayed after restarting EasyMP Network Projection. |

## The screen is not projected.

### 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?<br>(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 Virtual Display is installed, another application sometimes runs on the virtual display. In this case, set Virtual Display to off in Screen properties. |

## The mouse pointer is not displayed on the computer screen.

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

## The mouse pointer flickers.

| Check | Remedy |
|---|---|
| Is **Make the movement of the mouse pointer smooth** selected? | Do one of the following to stop the mouse pointer from flickering on the screen.<br>• Select **Make the movement of the mouse pointer smooth**.<br>☛ "General settings tab" p.35<br>• Clear the **Transfer layered window** check box.<br>☛ "Adjust performance tab" p.36 |
| Is **Transfer layered window** selected? | |

## When connecting with EasyMP Network Projection the image is not displayed or the image is slow to appear.

| Check | Remedy |
|---|---|
| Did you try to playback 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 effective, or are multiple projectors connected? | The display speed decreases when WEP encryption is effective or multiple projectors are connected. |
| Are you using Wireless LAN system 802.11b/g in Quick Connection Mode? | Depending on the electromagnetic wave environment, there are times when the image and sound for movies may stop. When sending movies, use Advanced Connection Mode or set Wireless LAN system to 802.11a to use Quick Connection Mode. |

### 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. Try disconnecting other projectors. |
| Is audio set to output from the computer in Set Options? | Select **Output audio from the projector** on the **Audio Output** tab.<br>☛ "Audio Output tab" p.37 |

### 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?<br>(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 pointer the screen is updated. If the screen does not update quickly, stop moving the mouse pointer. |

## Error Message List

### Cannot connect to the projector.

| Error Messages | Remedy |
|---|---|
| Cannot connect to the projector using this version of EasyMP Network Connection. 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.<br>You can download the latest version of EasyMP Network Projection from the following Web site.<br>http://www.epson.com/ |

## Error message when starting up EasyMP Network Projection

| Error Messages | Remedy |
|---|---|
| Connection to the projector failed. | Try connecting again. If you still cannot connect to the projector, check the network settings on the computer and the network settings for the projector.<br>You can make network settings from the projector's **Network** menu.<br>See the following manual for details.<br>☛ *User's Guide* |
| XXXXXX was disconnected. | |
| 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.<br>When **Yes** is clicked, a connection to the projector is established. The connection between the projector and the other computer is cut off.<br>When **No** is clicked, a connection to the projector is not established. 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 and then reinstall EasyMP Network Projection.<br>☛ "Installing" p.7 |
| 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.<br>Check the Projector Keyword that is displayed on the LAN standby screen.<br>☛ "Operating the Computer" p.11 |
| Network adapter information could not be obtained. | Check the following point.<br>• Is a network adapter installed on the computer?<br>• Is the driver for the network adapter used installed on the computer?<br>• Is the network adapter enabled?<br>After checking, restart the computer and connect again.<br>If you still cannot connect, check the following.<br>Check the network settings on the computer and the network settings on the projector.<br>You can make network settings from the projector's **Network** menu.<br>See the following manual for details.<br>☛ *User's Guide* |
| One or more connected projectors do not support resolutions greater than SXGA. Reduce the screen resolution and reconnect. | There is an ELP-735 projector in the connection destination. Change the computer screen resolution to SXGA (1280x1024) or less. |

| Error Messages | Remedy |
|---|---|
| One or more projectors are not responding. | Failed to simultaneously connect to one or more of the projectors that you attempted to connect to. Check the network settings on the computer and the network settings on the projector.<br>You can make network settings from the projector's **Network** menu.<br>See the following manual for details.<br>☛ *User's Guide* |
| Enter the keyword displayed on the projector screen. | Check the Projector Keyword displayed on the LAN standby screen, and enter the Projector Keyword. |
| Cannot start this application while USB Display is running. | Close USB Display and then start EasyMP Network Projection. |
| To output audio from the projector, restart applications such as PowerPoint or Windows Media Player. | After restarting PowerPoint or Windows Media Player, audio is output from the projector. |
| 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 playback, 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 your computer's wireless LAN, and then try searching for the projector again. |

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. |
| **SVGA** | A screen size standard with a resolution of 800 (horizontal) × 600 (vertical) dots. |
| **SXGA** | A screen size standard with a resolution of 1,280 (horizontal) × 1,024 (vertical) dots. |
| **UXGA** | A screen size standard with a resolution of 1,600 (horizontal) × 1,200 (vertical) dots. |
| **VGA** | A screen size standard with a resolution of 640 (horizontal) × 480 (vertical) dots. |
| **Virtual Display** | The screen for one computer is output to multiple displays. A large virtual screen can be created by using multiple displays. |
| **WUXGA** | A screen size standard with a resolution of 1,920 (horizontal) × 1,200 (vertical) dots. |
| **XGA** | A screen size standard with a resolution of 1,024 (horizontal) × 768 (vertical) dots. |

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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 10.4.x
Mac OS X 10.5.x
Mac OS X 10.6.x
Mac OS X 10.7.x

In this guide, the operating systems above are referred to as "Mac OS X 10.4.x," "Mac OS X 10.5.x," "Mac OS X 10.6.x", and "Mac OS X 10.7.x". Furthermore, the collective term "Mac OS X" is used to refer to them all.

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