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Projector Operation Guide

Multimedia Projector

EB-1920W
EB-1910
EB-1830

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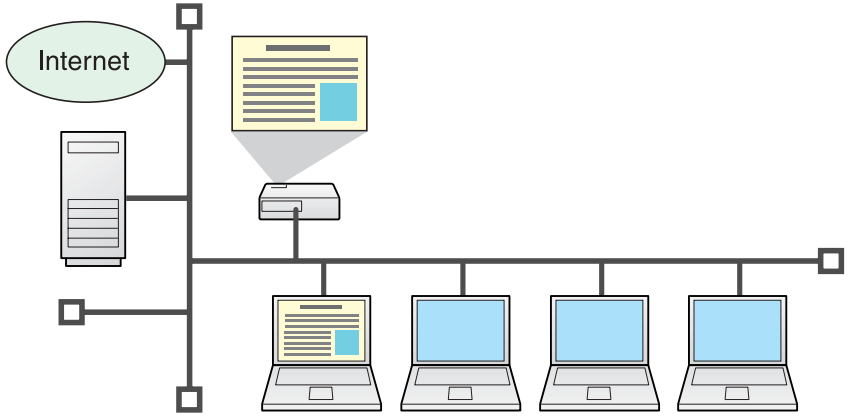
Introduction

This chapter provides information on functions that allow you to use your projector more effectively.

This projector is equipped with many useful functions to improve usability. As well as a computer cable, you can connect using various other interfaces such as a USB cable, a USB storage device, or a LAN connection. This allows for a wide range of image input sources depending on your usage environment.

Various Screen Transfers by Network Connection (EasyMP Network Projection)

You can hold efficient meetings and presentations by connecting the projector to a network.



Smooth progress

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

- Distribution function ☛p.10
- Switching function ☛ p.10
- Multi-screen display ☛ p.20
- Presentation Mode ☛ p.19

Monitor, Configure, and Control the Projector from a Remote Location

The following convenient functions collectively manage projectors in various conference rooms.

- Receive an e-mail notification if a problem occurs ☛ p.41
- Monitor and detect problems from SNMP Manager on the network ☛ p.42
- Set and control the projector by using a standard computer Web browser ☛ p.39

Projecting Directly from Saved JPEG Images on a USB Device (Slideshow)

By connecting a digital camera compatible with USB memory or USB mass storage devices to the projector, you can project JPEG images stored on the USB device as a Slideshow.☛ p.43

Connect a USB Cable to Your Computer and Project Images from the Computer Screen (USB Display)

By simply using the supplied USB cable to connect to a Windows computer, you can project images from the computer.

☛ *User's Guide* "Connecting with a USB Cable and Projecting (USB Display)"

You can find the software for using the projector effectively on the supplied "EPSON Projector Software for Meeting & Monitoring" CD-ROM. Install the software on the computer you are using.

The Slideshow and USB Display functions are already built-in to the projector. They can be used as they are without being installed from the CD-ROM.

Software Supplied

You can find the following software on the "EPSON Projector Software for Meeting & Monitoring" CD-ROM.

- EasyMP Network Projection
  Software for sending computer screen images to a projector via a network connection.
- EasyMP Monitor
  Software that lists the current status of Epson projectors connected to the network, and monitors and controls those projectors. You can collectively manage multiple projectors by using EasyMP Monitor. For details on using EasyMP Monitor, see the "EasyMP Monitor Operation Guide". ☛ *EasyMP Monitor Operation Guide*

Check the system requirements for each software application from Software Requirements in the "User's Guide" supplied with the projector. ☛ *User's Guide* "Software Requirements (EB-1925W/1920W/1915/1910/1830 only)"

Installing

Make sure you check the following points before starting installation.

- When you using the following OS, you must have administrator authority to install EasyMP Network Projection.
  - Windows 2000
  - Windows XP
  - Windows Vista
- When you using the following OS, you must have administrator authority to install EasyMP Monitor.
  - Windows 2000
  - Windows XP
  - Windows NT4.0
  - Windows Vista
- Make sure that you close all running applications before starting installation.
- When using Windows Vista, you must update to Windows Vista SP1 to use the Ukrainian version of EasyMP Monitor.
- When using Windows NT4.0, since Arabic and Hebrew are not supported, English is selected when installing EasyMP Monitor.
- 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: EMP NS Connection → After: 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.
- **For EMP Monitor users**
  The EMP Monitor name has changed.
  Before: EMP Monitor → After: EasyMP Monitor
  If you are already using EMP Monitor, you can replace it with EasyMP Monitor. To update to EasyMP Monitor, uninstall EMP Monitor first, and then install EasyMP Monitor.

Procedure

For Windows

1. **Turn on your computer.**
2. **Insert the "EPSON Projector Software for Meeting & Monitoring" CD-ROM into the computer.**
   The installer starts automatically.
3. **Click "Easy Install".**
   To select software and install it individually, select **Custom Install**. To change the language in which the software is displayed, click **Language**.
4. **Check the applications to be installed, and then click "Install".**
5. **When the License Agreement screen is displayed, click "Yes".**
6. **When the Add-Remove EPSON Virtual Display screen is displayed, click "OK".**
   To use Multi-screen display you need to set up EPSON Virtual Display. If you do not want to set it up now, you can do so later.
   ☛ p.21
7. **Click "Exit" to complete the installation.**
   When EasyMP Monitor is selected, installation begins.

For Macintosh

EasyMP Monitor is not compatible with Macintosh computers.

1. **Turn on your computer.**
2. **Insert the "EPSON Projector Software for Meeting & Monitoring" CD-ROM into the computer.**
3. **Double-click the "ENPvx.xx_Installer" icon in the EPSON window.**
   Installation starts.
4. **Click "Exit" to complete the installation.**

- When installation does not start automatically (Windows only)
  Select **Start** - **Run**, and in the **Run** dialog box, type the letter for your CD-ROM drive followed by :\EPsetup.exe and then click **OK**.
- Uninstalling

  For Windows

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

  For Macintosh

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

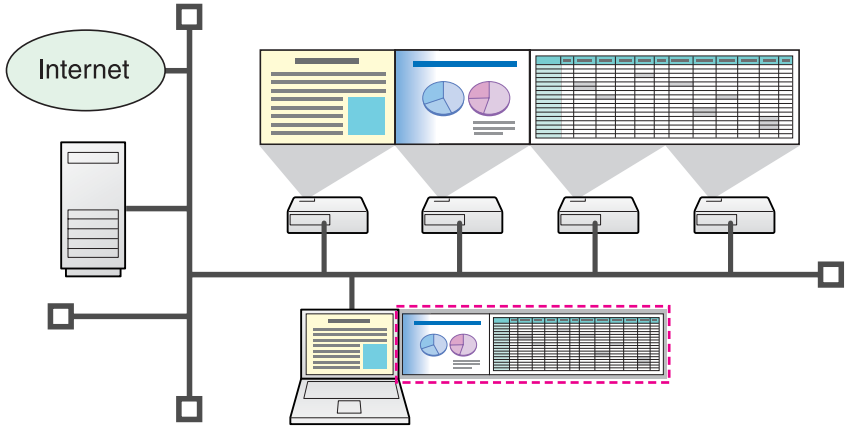
Connecting with EasyMP Network Projection

This section 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.

Main Functions of the EasyMP Network Projection

You can make meetings and presentations by using the following convenient functions.

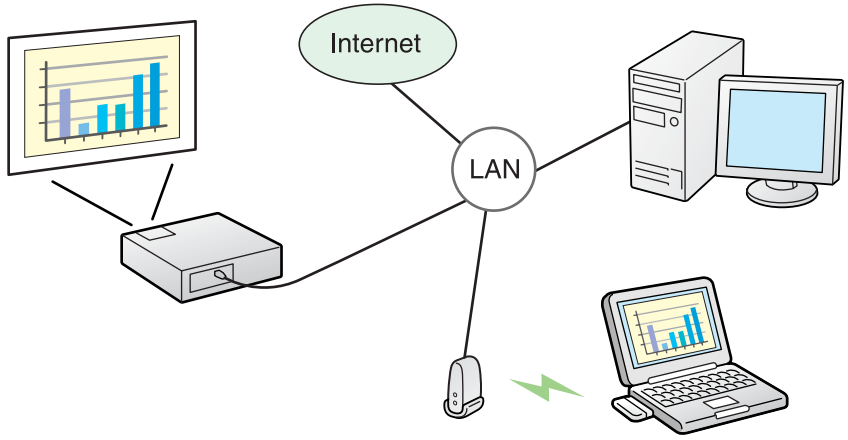
- Multi-screen display ☛ p.20
  You can project different images from up to four projectors from one computer, allowing you to project landscape images such as spreadsheets and so on as one continuous image.



- Presentation Mode ☛ p.19
  This function can project a PowerPoint Slide Show running on a computer. You can give stylish presentations by projecting a black screen while making preparations and so on, and when not performing a 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.

Connecting in Advanced Connection Mode

To connect the computer and the projector via a network with EasyMP Network Projection, connect in Advanced Connection Mode. Advanced Connection Mode is an infrastructure connection, and connects to an existing network system via a network cable. When connecting to a network, connect the projector to the network hub with a commercially available LAN cable.



Steps for connecting

Use the following steps to connect and project in EasyMP Network Projection Advanced Connection Mode.

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.7

2.* Make network settings on the computer and put it into network connection status. ☛ p.12

3. Enable the Wired LAN adapter in "Port Configurations". ☛ Computer's documentation

4. Make network settings on the projector and put it into network connection status. ☛ *User's Guide* "Network Menu (for EB-1920W/1910/1830)"

5. Start EasyMP Network Projection on the computer and connect with the projector. ☛ p.13

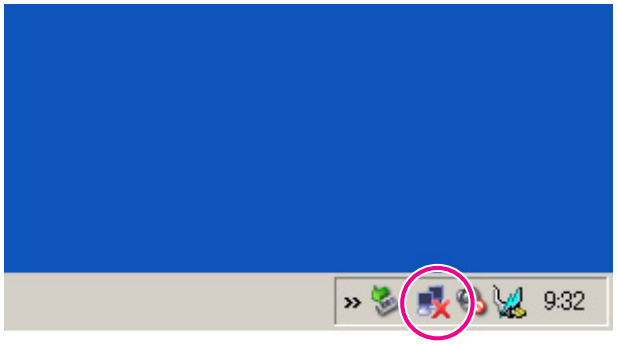
* When the computer you are using is normally connected to the network, you do not need to make network settings on the computer.

Use the following procedure to prepare the computer and the projector for connection.

Preparing the Computer

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 Macintosh

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. **Press the [LAN] button on the Remote Control.**

   The LAN standby screen is displayed.

Operating the Computer

In the following explanations, unless otherwise noted, Windows screen shots are used. You see the same screens even when using Macintosh.

Procedure

1. **Start EasyMP Network Projection.**

   For Windows

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

   For Macintosh

   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 "Advanced Connection Mode" and then click "OK".***

   The projector search results are displayed. Because this projector always connects using Advanced Connection Mode, **Set the selected Connection Mode as the default mode for future connections** is always selected.

   * Cannot connect to the projector in Quick Connection Mode.

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.14

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".**

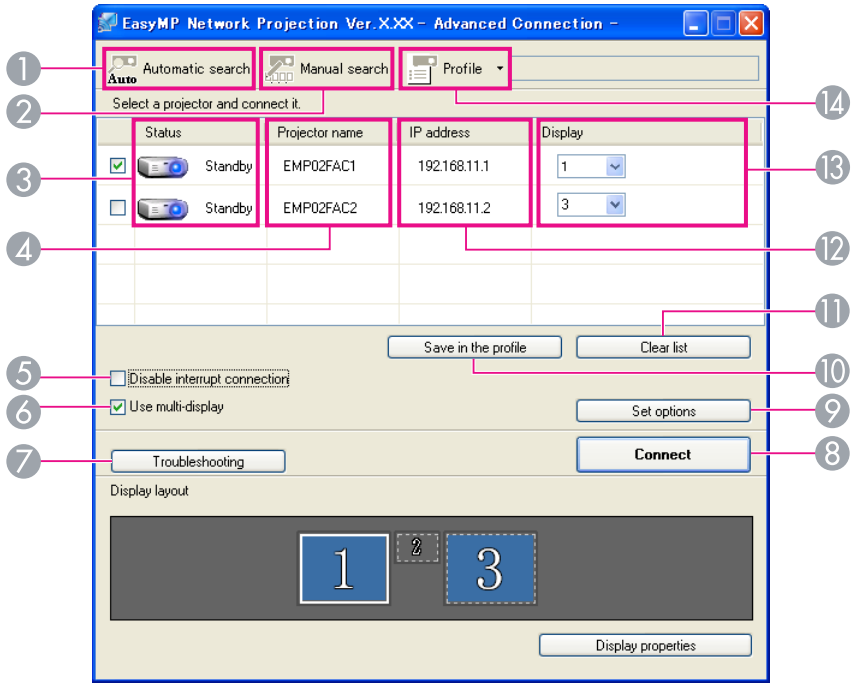
   When the connection is complete, the computer screen is projected. The following EasyMP Network Projection toolbar is

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 using the toolbar, see "Using the Toolbar".☛ p.16

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.

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.



❶ **Automatic search**

You can search for available projectors on the network system that the computer is connected to.

❷ **Manual search**

You can search for a projector based on a specified IP address or projector name.

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	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.

4 **Projector name**

The projector's name is displayed.

5 **Disable interrupt connection**

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

6 **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.20

7 **Troubleshooting**

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

8 **Connect**

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

9 **Set options**

You can make general setting options such as the processing method when starting up EasyMP Network Projection. For details, see Set options
☛ p.36

10 **Save in the profile**

Saves the results of a search for projectors on the network as a Profile.
☛ p.31

11 **Clear list**

Deletes all search results.

12 **IP address**

The projector's IP address is displayed.

13 **Display**

Select the number displayed (when **Use multi-display** is selected).
☛ p.26

14

Profile

You can search for a projector on the network using a Profile saved using **Save in the profile**.
☛ p.31

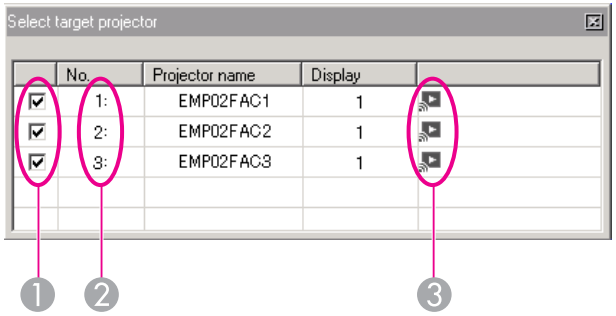
Using the Toolbar

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.



1. Select the projector to be controlled.
2. Indicates the No. of an allocated projector. This No. indicates 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. Audio does not stop. To stop the audio, or to display a User's Logo while projection is stopped, use A/V Mute.

Show

Releases Stop or Pause.

Pause

Pauses projected images while connecting to the projector. Audio does not Pause.

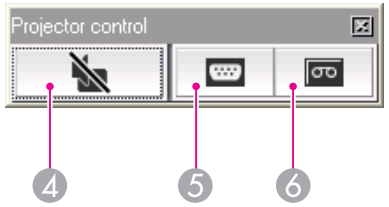
Presentation Mode

Each time this is clicked, Presentation Mode switches between enabled/disabled. ☛ p.19

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

The same function as the [A/V Mute] button on the Remote Control.
☛ *User's Guide* "Remote Control"

5 Switch PC source

The Source alternates between Computer1, Computer2, USB Display, USB, and LAN each time you click.

⑥ Switch video source

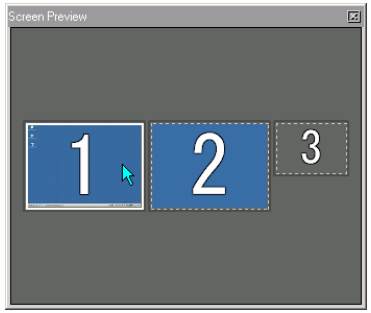
The Source alternates between S-Video and Video each time you click.S-Video does not switch if the cable is not connected.

Screen Preview

Displays the multi-screen preview screen.

Click to display a preview with the settings you have made.

Click the displays to enlarge each Screen Preview to full-screen.



Set options

Transmission performance during the transfer of computer images can be adjusted.☛ p.36

Movie Sending Mode

Not enabled on this projector. The message "The connected projectors do not support Movie Sending." is displayed.

Disconnect

Disconnect

Disconnects the connection to the projector.

Switch toolbar display

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

Full

Normal

Simple

EasyMP Network Projection Useful Functions

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

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 Macintosh.

Procedure

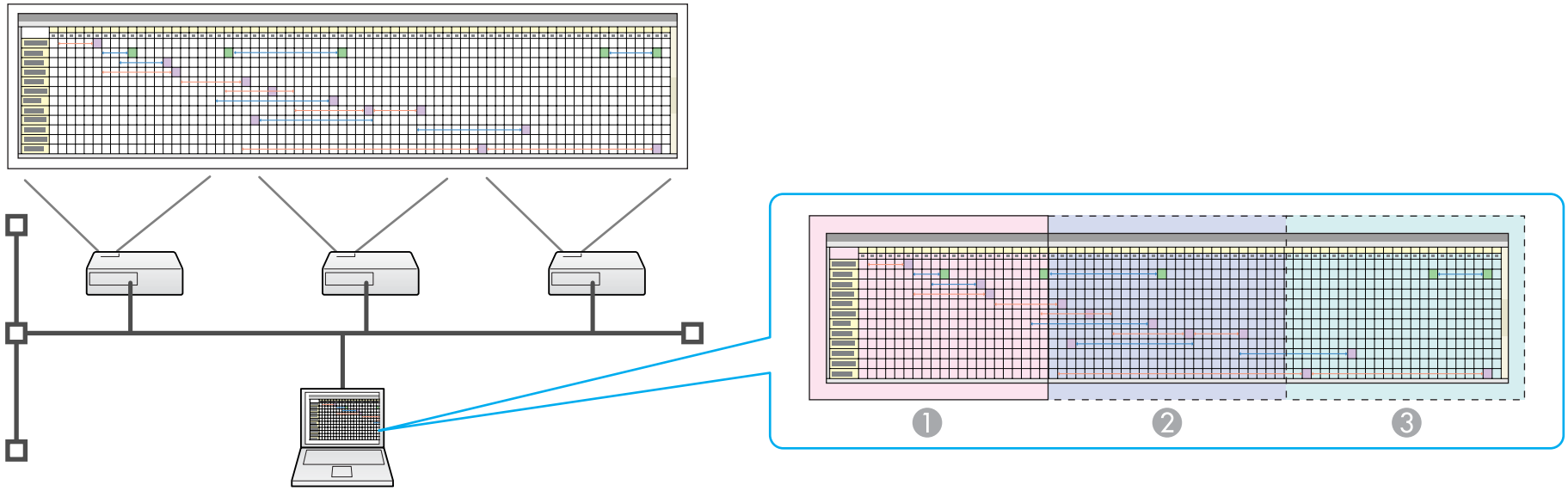
1. **If necessary, select another projector to be controlled.**
☛ p.16

2. **Click the button on the toolbar.**

   Presentation Mode begins.

3. **Click the button again to exit Presentation 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 displays drivers can be set in the computer, and each image can be projected by the projector. This function is not available with Windows Vista due to restrictions in the Windows Vista specifications.
For Macintosh, an external monitor must be connected to the computer to enable the function. While the following explanation refers to virtual display, for Macintosh the operation relates to the screens displayed on the physically connected monitor.

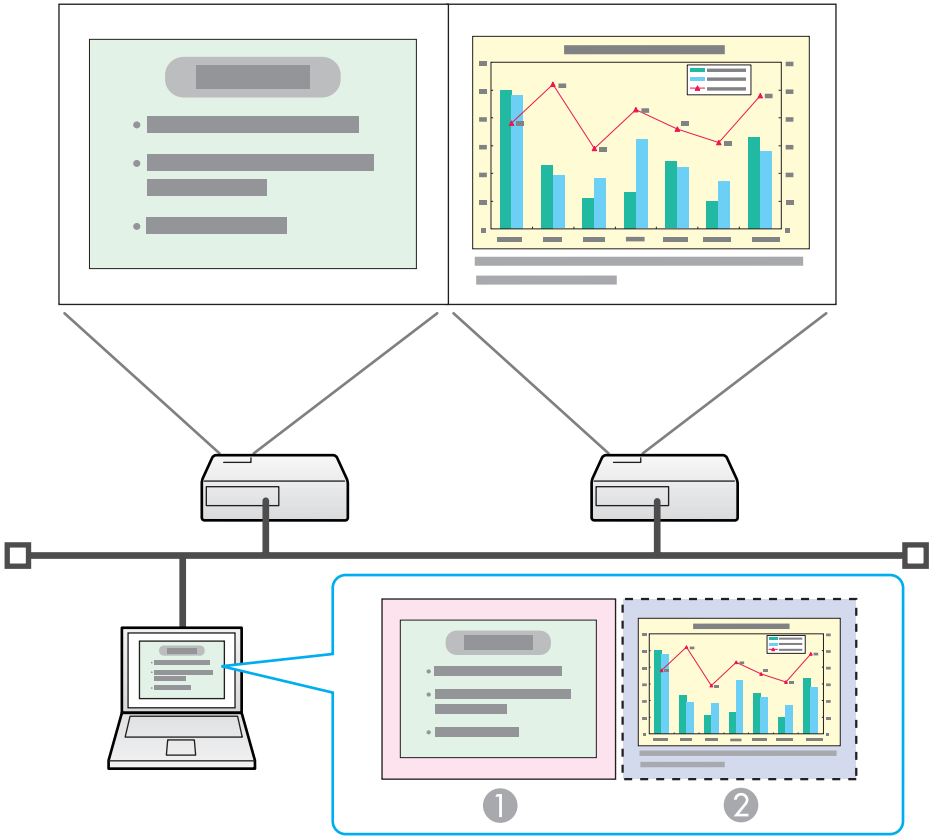


1. Actual monitor image
2. Image of virtual display1
3. Image of virtual display2

Example of Adjusting the Virtual Display

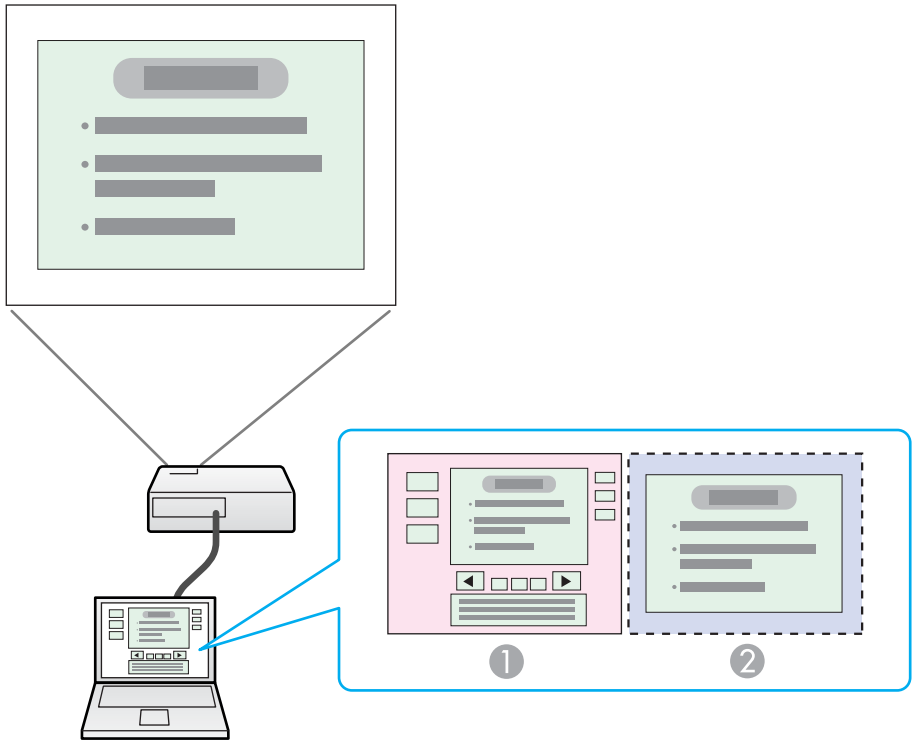
By arranging the virtual display allocation, you can project only the image that you want to show or project different images from left to right in a presentation.

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.22

   In a Windows environment, enable the virtual display driver as necessary. And, for both Windows and Macintosh, set up the virtual display arrangement.

2. **Allocating the image to be projected** ☛ p.26

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

3. **Projecting the allocated images** ☛ p.26

   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.21

Enable the virtual display driver (Windows only)

Enable the virtual display driver. Those users listed below do not have to perform this operation. Go to procedure ☛ "Adjusting the Virtual Display" p.22.

- Those users who have enabled virtual displays installing EasyMP Network Projection.
- For Macintosh users.

Procedure

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

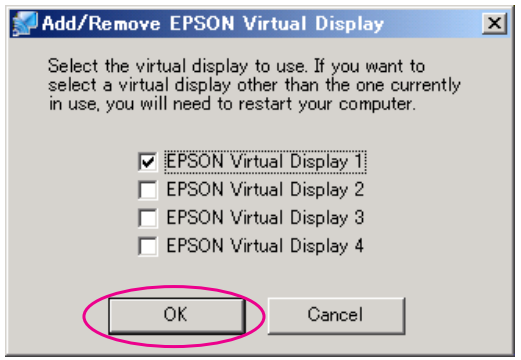
   The Add-Remove EPSON Virtual Display screen is displayed.

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

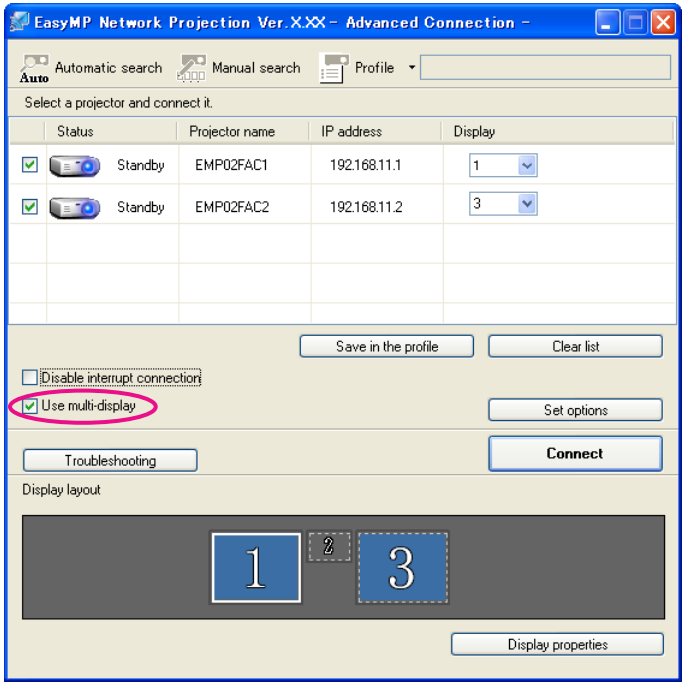
After starting EasyMP Network Projection, the setup of the virtual displays varies between Windows and Macintosh. The procedures are explained separately below.

Procedure

For Windows

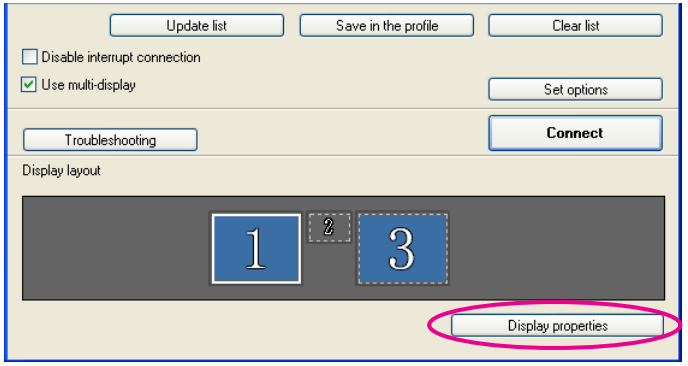
1. **Select "Start" - "Programs" (or "All Programs") - "EPSON Projector" - "EasyMP Network Projection" to start EasyMP Network Projection.**

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



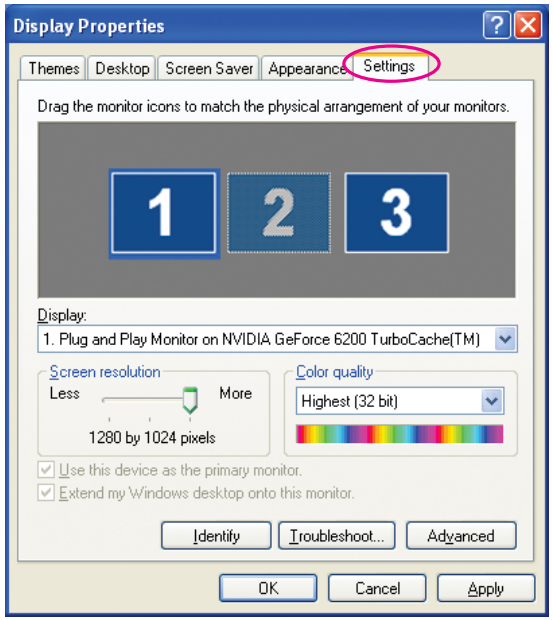
Display layout and Display properties are added at the bottom of the screen.

3 **Click "Display properties".**



The Display Properties screen is displayed.

4 **Click the "Settings" tab.**

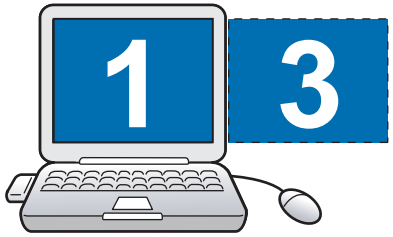


5 **Drag the displayed monitor icon and place it where desired.**

Here, the actual monitor (1) is placed on the left, while the virtual monitor (3) is placed on the right.
When the computer 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 Screen Resolution settings, see the following.☛ p.52

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



6 **Click the "OK" button. The Display Properties screen closes.**

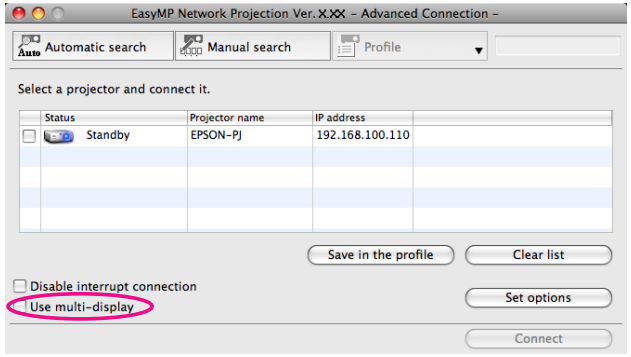
Up to this point, the virtual display layout has been fixed.
Allocate the projecting images next.☛ p.26

For Macintosh

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.**

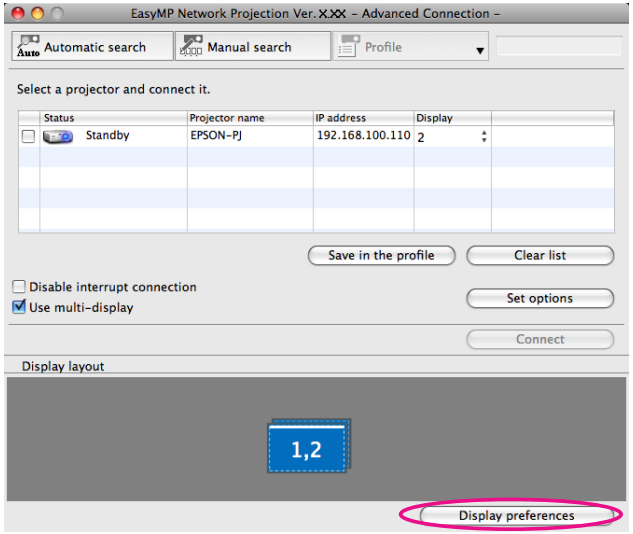
Select **Advanced Connection Mode** and then perform startup.

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



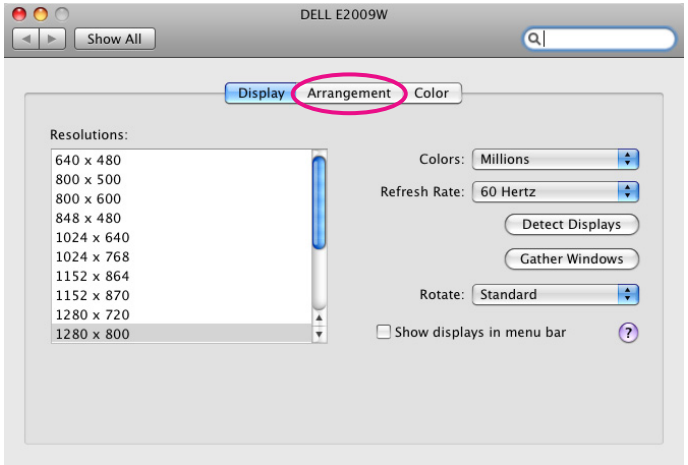
Display layout and Display preferences are added at the bottom of the screen.

3 **Click "Display preferences".**

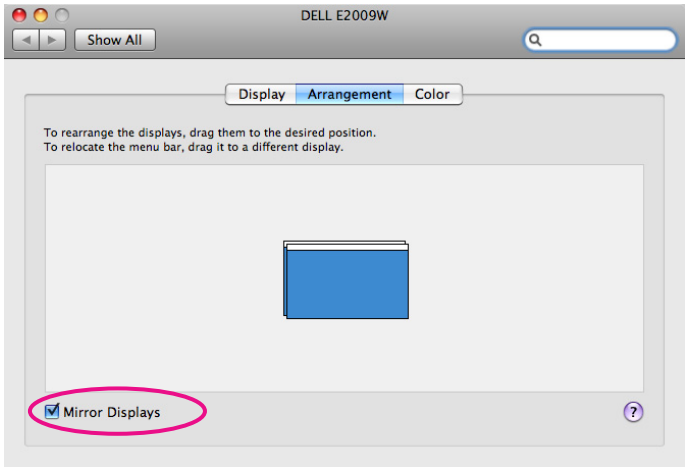


The display setting screen is displayed.

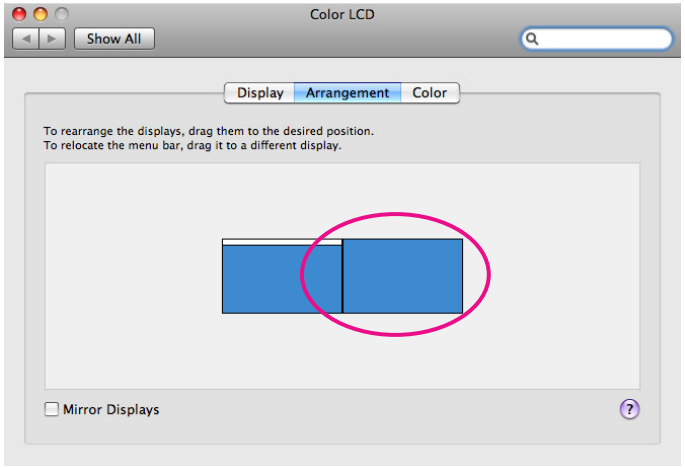
4 **Click "Arrangement".**



5 **Clear "Mirror Displays".**



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



7 **Close the display setting screen.**

Up to this point, the screen layout has been fixed.

Allocating the Image to be Projected

This section explains the virtual display for arrangement example 1.
☛ p.21

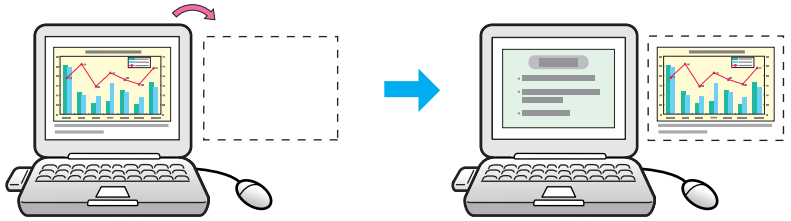
Procedure

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.

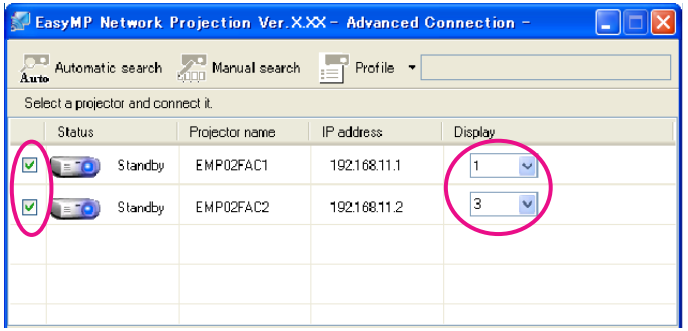


Projecting the Allocated Images

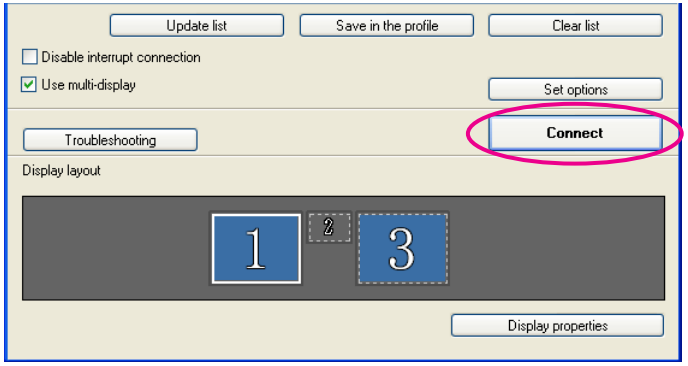
This section explains the virtual display for arrangement example 1.
☛ p.21

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 terminate 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.22
- You can adjust each projector's color tone.☛ *User's Guide* "Correcting Color for Multiple Projectors (Multi-Screen Color Adjustment)"

Connecting to a Projector on a Different Sub-net

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

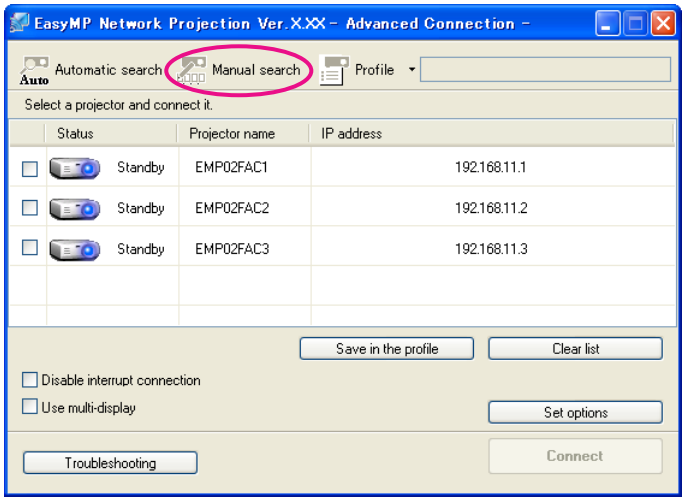
By default, this application only searches for projectors on the same subnet as the computer. Therefore, even if you perform a search for projectors on the network, ones on a different subnet will not be found. You can, however, identify and connect to a projector on a different subnet as follows:

- 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. ☛ p.30
- 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.31

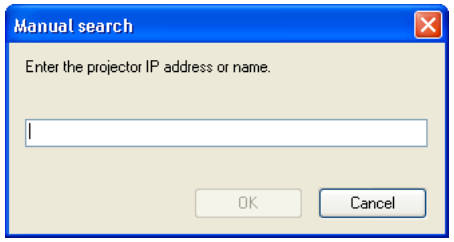
In the following explanations, unless otherwise noted, Windows screen shots are used.
You see a similar screen even when using Macintosh.

Procedure

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



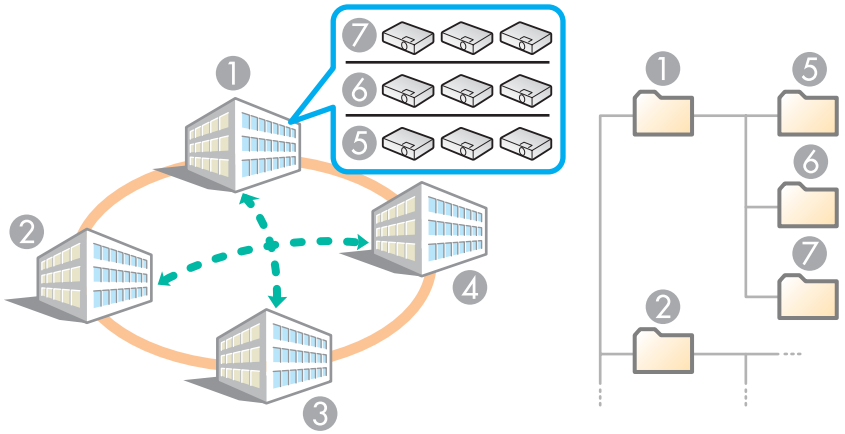
2 **Enter the IP address or the Projector name for the projector you want to connect to, and click "OK".**



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. ☛ p.31

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 and its IP address. By specifying the profile each time you perform a search, there is no need to enter the IP Address or Projector name. For example, by creating a group of Profile for each place where a projector is setup and managing them with folders, the target projector can be found quickly.



1. Building A
2. Building B
3. Building C
4. Building D
5. Floor 1
6. Floor 2
7. Floor 3

This section explains how to create and edit a Profile.

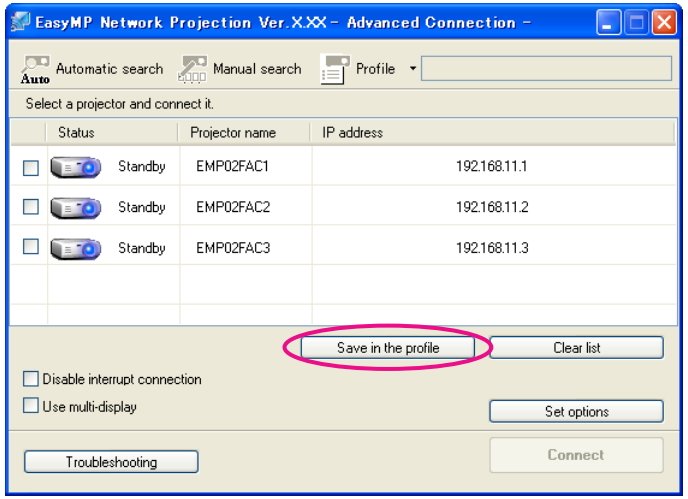
Making a Profile

Profile is made by saving search results.

For details on how to edit a previously saved Profile, see the following section. ☛ p.33

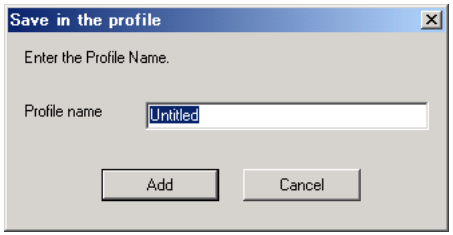
Procedure

1. **When 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.

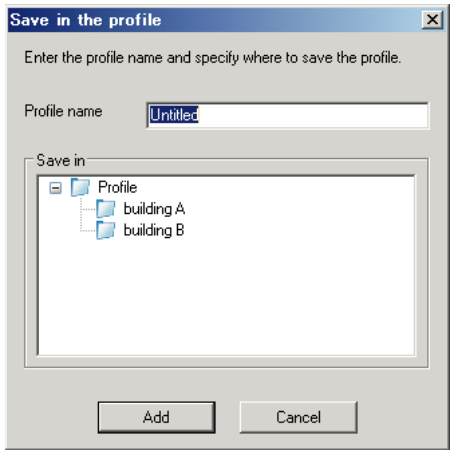
2. **Enter a Profile name and then click "Add".**



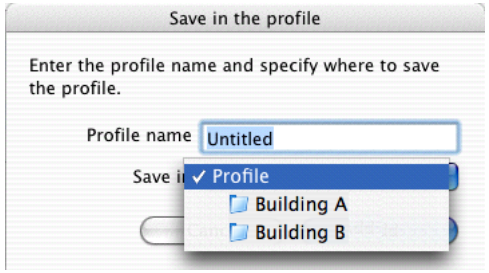
Projector information is registered in the Profile.
If you have previously saved a Profile, you are prompted to confirm whether it can be overwritten. To save a Profile with a different name, select **Save as**. If you have created a folder for a

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

For Windows



For Macintosh



For details on how to create a folder for a Profile, see the following section. p.33

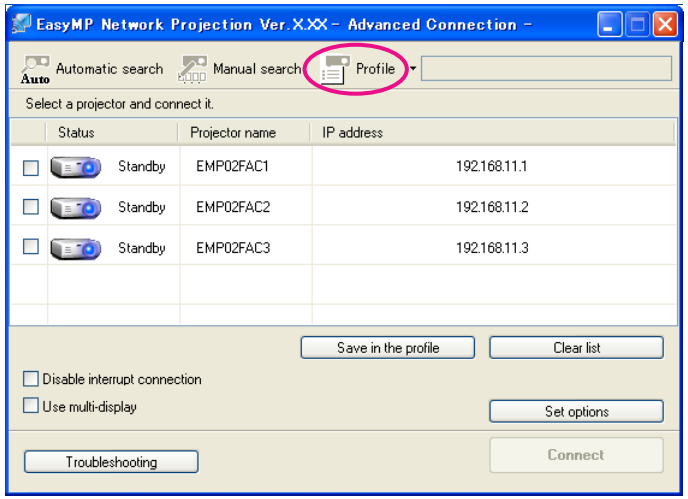
Searching by Specifying a Profile

You can search by specifying the Profile you created.

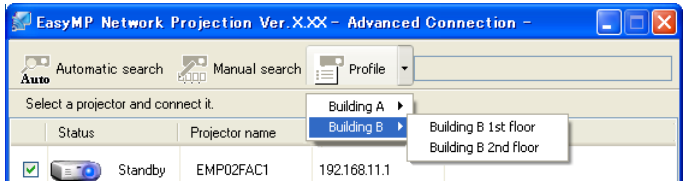
Procedure

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.
Provided the target projector has been identified, select that projector, and then click **Connect** to establish a connection.

Managing a Profile

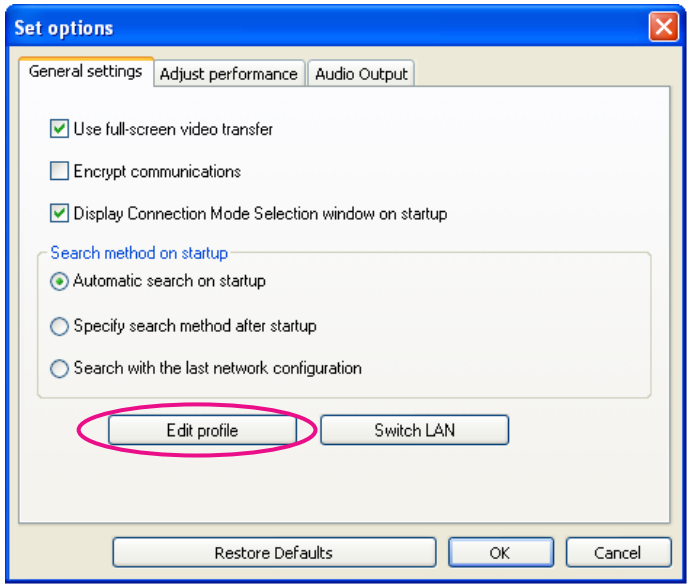
You can change the name and the hierarchical structure of the Profile.

Procedure

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

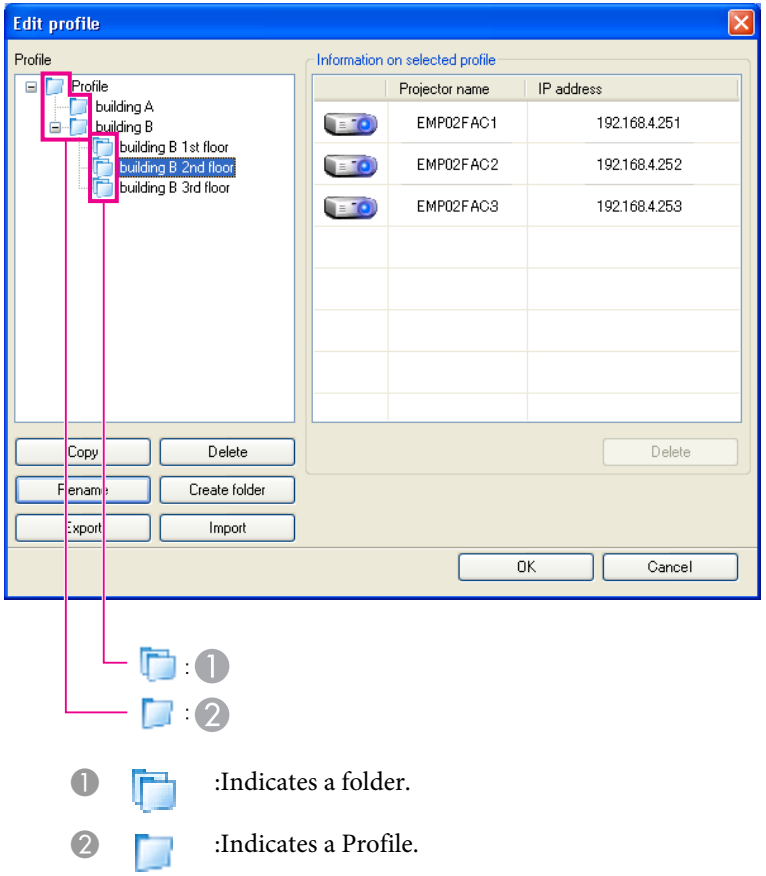
   The Set options screen is displayed.

2. **Click "Edit profile".**



   The Edit profile screen is displayed.

3. **Edit the contents registered in the Profile.**



1 :Indicates a folder.

2 :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.
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 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	You can Export a Profile, as well as Import and use a 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.

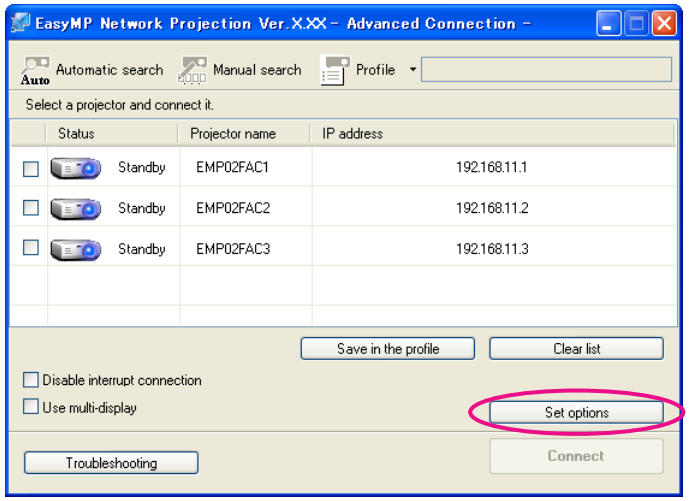
Setting the EasyMP Network Projection Operation

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

You can make setting options such as the processing method when EasyMP Network Projection starts.
Call Set options from the EasyMP Network Projection main screen.

Procedure

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



The Set options screen is displayed.

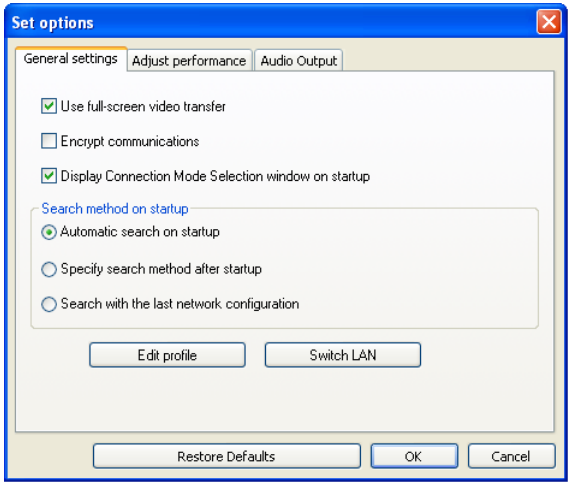
2 **Set each of the items.**

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

Setting Each Item

Set each item from the General settings tab and the Adjust performance tab.

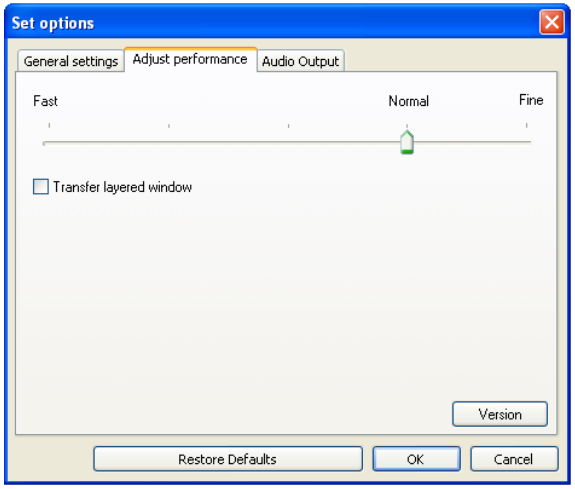
General settings tab



Use full-screen video transfer	Because this projector does not support the movie sending function, this setting item is disabled.
Encrypt communications	Select to Encrypt and transmit data. Even if data is intercepted, it cannot be decrypted.
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. Because this projector always starts in Advanced Connection Mode, clear this checkbox.
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.33

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 General settings tab 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 only (excluding Windows Vista) 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 for the Adjust performance tab functions to their default settings.

When you click on the toolbar, only the Adjust performance tab is displayed.

Audio Output tab

Because this projector does not support the audio sending function, settings on the Audio Output tab are disabled.

Using a Computer to Set Up, Monitor and Control Projectors

This chapter explains how to use a computer that is connected to the network to change projector settings and to control the projector.

You can set up and control the projector from a computer by using the Web browser of a computer that is connected to the projector via a network. Setup and control operations can be performed remotely if this function is used. In addition, since you can use the computer's keyboard, entering characters required for setup is easier.
Use Microsoft Internet Explorer 6.0 or later as the Web browser. If using a Macintosh, you can also use Safari. If, however, you are using Safari under Mac OS X 10.2.8, some of the Web control radio buttons may not display properly.

Setup and control with a Web browser are possible if **Network On** is set from the **Extended** menu of the projector's Configuration Menu, even if the projector is in **Standby Mode** (when the power is off).

Displaying Web Control

Use the following procedure to display Web Control.

If your Web browser is set up to connect via a proxy server, Web Control cannot be displayed. To use Web Control, you need to make network connection settings with a device other than a proxy server.

Entering the IP address of the projector

Web Control can be opened by specifying the IP address of the projector as follows when using Advanced Connection Mode.

Procedure

1. **Start the Web browser on the computer.**
2. **Enter the IP address of the projector in the address input box of the Web browser, and press the [Enter] key on the computer's keyboard.**

   Web Control is displayed.

   When Web Control Password is set in the Network menu from the projector's Configuration Menu, enter the Password. Enter the characters set for the Web Control Password.

Projector Setup

You can set items that are usually set in the projector's Configuration Menu. The contents set are reflected in the Configuration Menu. There are also items that can only be set in the Web browser.

Items in the Configuration menu that cannot be set by the web browser

All items in the Configuration Menu can be set with the exception of the following items.

- Settings Menu - Pointer Shape
- Settings Menu - Test Pattern
- Settings Menu - User Button
- Extended Menu - registering User's Logo
- Extended Menu - Language
- Extended Menu - Operation - High Altitude Mode
- Extended Menu - Operation - Lens Cover Timer
- Reset Menu - Reset All, and Reset Lamp Hours

The items available on each menu are the same as the Configuration Menu of the projector.
☛ *User's Guide* "List of Functions"

Items that can only be set in the Web browser

The following items can only be set in a Web browser.

- SNMP Community Name
- Monitor Password

By setting the Mail Notification function from the projector's Configuration Menu, notification messages will be sent to the preset email addresses when a problem or warning occurs with a projector. This will enable the operator to be notified of problems with projectors even at locations away from the projectors.

☛ *User's Guide* "Mail Menu"

- Up to a maximum of three notification destinations (Addresses) can be recorded, and notification messages can be sent to all three destinations at once.
- If a projector develops a critical problem and suddenly stops working, it may not be able to send a message notifying an operator of the problem.
- Monitoring is possible if **Network On** is set from the **Extended** menu of the projector's Configuration Menu, even if the projector is in **Standby Mode** (when the power is off).

By setting SNMP from the projector's Configuration Menu, notification messages are sent to preset e-mail addresses when a problem or warning occurs with a projector. This is useful when controlling projectors collectively at a point distant from them.

☛ *User's Guide* "Others Menu"

- SNMP should be managed by a network administrator or someone who is familiar with the network.
- To use the SNMP function to monitor the projector, you need to install the SNMP manager program on your computer.
- Up to two destination IP addresses can be saved.

Presentations Using Slideshow

This chapter explains how to project image files stored on USB devices directly from the projector as a Slideshow.

You can use Slideshow to directly project files stored in USB storage devices and digital cameras that are connected to the projector.

USB storage devices that incorporate security functions sometimes cannot be used.

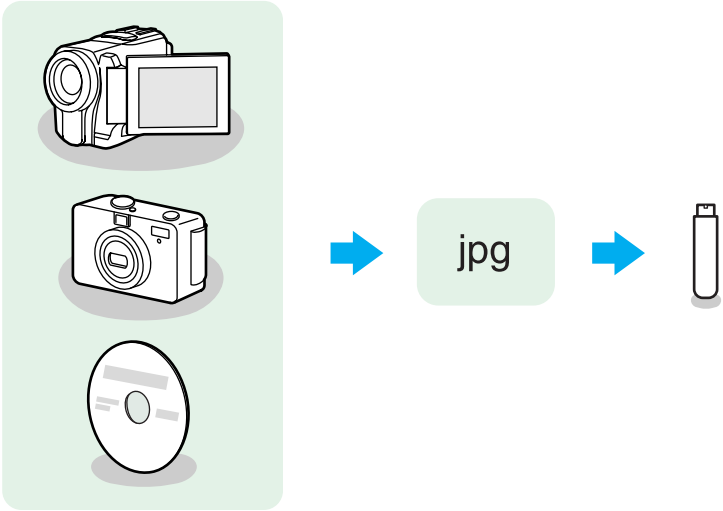
Specifications for Files that can be Projected Using Slideshow

Type	File Type (Extension)	Notes
Still image	.jpg	The following cannot be projected. - CMYK color mode formats - Progressive formats - Images with a resolution greater than 8192 x 8192 - Files with the extension ".jpeg" Normally, the image may not be projected clearly if compression is set too high.

- When using a USB hard disk, we recommend using an AC adapter power supply.
- The projector does not support media formatted on some file systems. If you have trouble when projecting, use media formatted under Windows.
- Format the media using the FAT16/32 file system.

Slideshow Examples

Projecting images and movies stored on USB storage and so on



Example 1: Prepare multiple images and project them continuously (Slideshow)☛ p.49

Example 2: Select image files one at a time and project☛ p.48

Slideshow lets you play back and project image files stored on USB storage devices and digital cameras.
This section explains the basic operations for Slideshow.

Although the following steps are explained based on the Remote Control, you can perform the same operations from the projector's Control panel.

Starting and Closing Slideshow

Starting Slideshow

Procedure

1. **Switch the projected image to USB.**
   ☛ *User's Guide* "Changing the Projected Image"

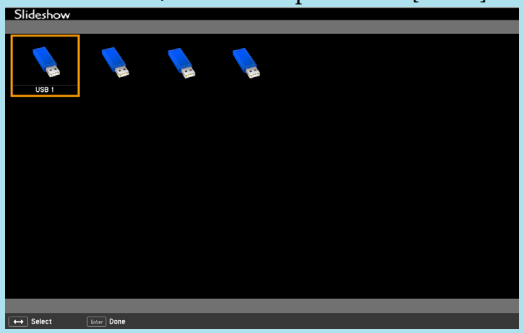
2. **Connect the USB storage device or digital camera to the projector.**
   ☛ *User's Guide* "Connecting and Removing USB Devices (EB-1925W/1920W/1915/1910/1830 only)"
   Slideshow starts and the file list screen is displayed.

Closing Slideshow

Procedure

To close Slideshow, disconnect the USB device from the USB(TypeA) port on the projector. For digital cameras, hard disks, and so on, turn off the power to the device and then disconnect.

- You can also connect a memory card to the projector by loading it in a USB card reader. However, some card readers may not be compatible.
- When the following screen (Select drive screen) is displayed, press the [▲][▼][◀][▶] buttons to select the drive you want to use, and then press the [Enter] button.



- To display the Select drive screen, position the cursor on **Select drive** in the top half of the file list screen, and then press the [Enter] button.

Slideshow Basic Operations

The following describes the procedures for playing images using Slideshow, and projection operations.

Procedure

1. **Use the [▲][▼][◀][▶] buttons to position the cursor on the file or folder you want to access.**

❶ Cursor

- JPEG files are displayed as thumbnails (file contents are displayed as small images).
- Depending on the JPEG file, a thumbnail may not be displayed. In this case, a file icon is displayed.

If all files and folders cannot be displayed at the same time in the current window, press the [Page] (Down) button on the remote control or position the cursor on **Next page** at the bottom of the screen and press the [Enter] button.
To return to the previous screen, press the [Page] (Up) button on the remote control or position the cursor on **Previous page** at the top of the screen and press the [Enter] button.

2 Press [Enter].

The selected image is displayed.

When a folder is selected, the files in the selected folder are displayed. Select **Back to Top** on the screen that opened and press the [Enter] button to return to the previous screen.

Rotating the Image

You can rotate JPEG images in 90˚ increments when playing them. The rotating function is also available during the Slideshow.

Rotate JPEG images in the following way.

Procedure

1 Play images in JPEG format, or perform a Slideshow.

To play JPEG images ☛ p.48

To play Slideshow ☛ p.49

2 While projecting a JPEG image, press the [▲] or the [▼] button.

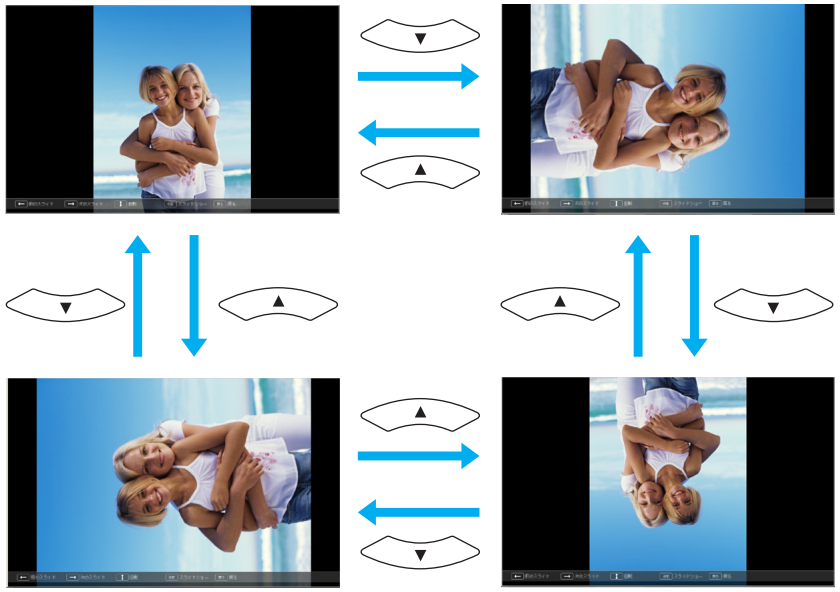


Image files stored on a USB storage device or image files from a digital camera can be projected as a Slideshow by either of the following two methods.

- Projecting selected image files
  This is a function for projecting single files.
- Projecting image files in a folder one at a time (Slideshow)
  This function projects the files in a folder in order, one file at a time.

Attention

Do not disconnect the USB storage device while it is being accessed. Slideshow may not operate correctly.

Although the following steps are explained based on the Remote Control, you can perform the same operations from the projector's Control panel.

Projecting Images

Procedure

1 Start Slideshow. ☛ p.45

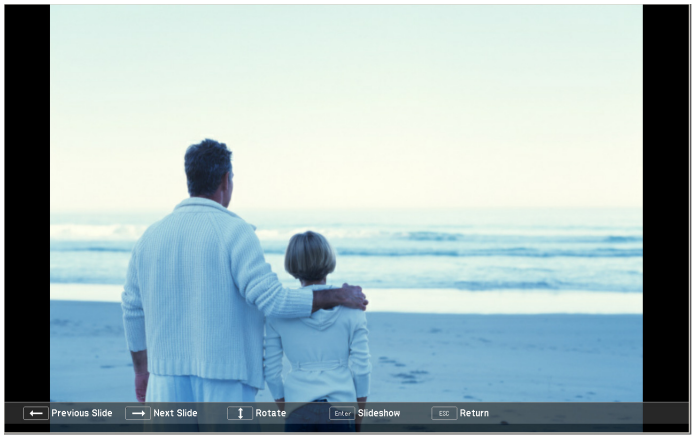
The file list screen is displayed.

2 Use the [▲][▼][◀][▶] buttons to position the cursor on the image file to be projected.

1 Image file

3 Press [Enter].

The image starts to play back.



4 Press the [Return] button to return to the file list screen.

Projecting all Image Files in a Folder in Sequence (Slideshow)

You can project the image files in a folder in sequence, one at a time. This function is called Slideshow. Perform the Slideshow by the following procedure.

To change files automatically when you run Slideshow, set the Screen switching time in the Slideshow Option menu to anything other than **No**. The default setting is **No**.☛ p.50

Procedure

1. **Start Slideshow.**☛ p.45

   The file list screen is displayed.

2. **Use the [▲][▼][◀][▶] buttons to position the cursor over the folder for the Slideshow that you want to run and press [Enter].**

3. **Select Slideshow from the file list screen, and then press the [Enter] button.**

   The Slideshow starts and the image files in the folder are automatically projected in sequence, one at a time.
   When the last file is projected, the file list is displayed again automatically. If you set **Continuous Play** to **On** in the Option window, projection will start from the beginning again when the end is reached.☛ p.50
   You can proceed to the next screen, return to the previous screen, or stop playback during the projection of a Slideshow.

If the Screen switching time setting on the Option screen has been set to **No**, the files will not change automatically when you Play Slideshow. Press the [Enter] button or the [Page] (Down) button on the Remote Control to continue to the next file.

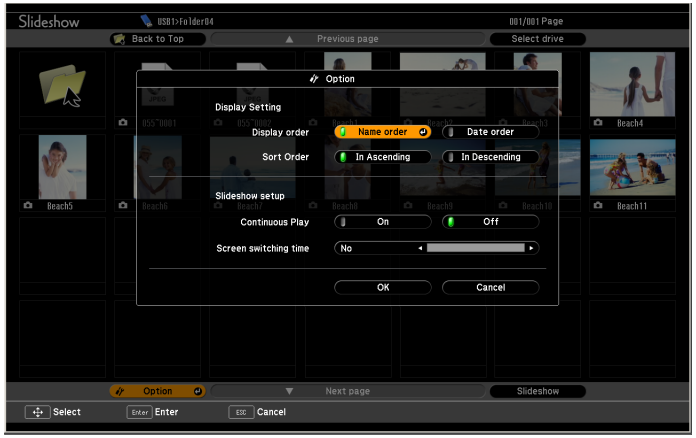
You can set the file display order and Slideshow operations on the Option screen.

Procedure

1 **Press the [▲][▼][◀][▶] buttons to position the cursor over the folder where you want to set display conditions and press the [Return] button. Select "Option" from the sub menu displayed, then press the [Enter] button.**

2 **When the following Option screen is displayed, set each of the items.**

Enable settings by positioning the cursor on the target item and pressing the [Enter] button.
Details of the items are given below.



Display order	You can set the order of the files to be displayed. You can select sorting of the files into either **Name order** or **Date order**.
Continuous Play	You can determine whether to repeat the Slideshow.
Screen switching time	You can set the time for a single file to be displayed in Play Slideshow. You can set a time between No (0) and 60 Seconds. When you set **No** seconds, auto play is disabled.

3 **Use the [▲][▼][◀][▶] buttons to position the cursor over "OK" and press [Enter].**

The settings are applied.
If you do not want to apply the settings, position the cursor on **Cancel** and press the [Enter] button.

Appendix

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 a computer with a special screen size is used where the ratio of height and width is not represented, a screen resolution closest to the width is selected from the list of 10 above.
In this case, in wide screen the horizontal margins are projected, in narrow screen the empty vertical margins are black.

Display Color

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

Windows	Macintosh
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

- Audio is not transmitted.
- When videos are played back, they do not play back as smoothly as when displayed on the computer.
- 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.

When Using Windows Vista

Note the following points when using EasyMP Network Projection with a computer running Windows Vista.

Limitations when projecting from Windows Photo Gallery

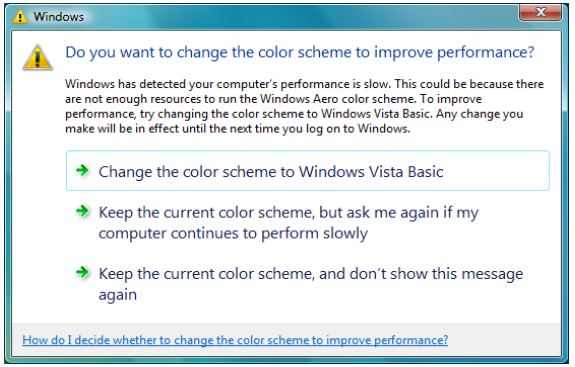
Note the following two limitations when launching Windows Photo Gallery when EasyMP Network Projection is running.

- 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.

- 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 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.



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

Problems concerning network functions

"Cannot connect using EasyMP Network Projection" ☛ p.55

"When a connection is made using EasyMP Network Projection, the projected image remains as is, and a connection cannot be made from another computer." ☛ p.55

"The projector is not found when EasyMP Network Projection is started." ☛ p.55

"Cannot connect in Advanced Connection Mode" ☛ p.56

"The Slide Show cannot be displayed on the desired display when the multi-screen display function is being executed." ☛ p.56

"Applications are no longer displayed from the computer screen when the multi-screen display function is executed." ☛ p.56

"The mouse cursor is not displayed on the computer screen." ☛ p.57

"When connecting with EasyMP Network Projection the image is not displayed or the image is slow to appear." ☛ p.57

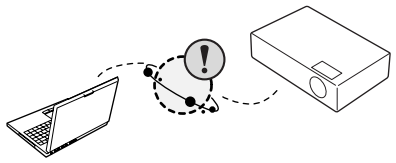
"When a connection is made using EasyMP Network Projection, a PowerPoint Slide Show cannot be started." ☛ p.57

"When a connection has been made using EasyMP Network Projection, the screen will not be refreshed when using an Office application." ☛ p.57

"Error message when starting up EasyMP Network Projection" ☛ p.58

Problems concerning monitoring and control

"Mail is not sent even if a problem occurs in the projector." ☛ p.59



Problems Concerning Network Functions

Cannot connect using EasyMP Network Projection

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

Error Messages	Remedy
The application version used is not supported. Install the latest version of the application on your computer.	Install the current version of EasyMP Network Projection from the EPSON Projector Software for Meeting & Monitoring CD-ROM supplied with the projector.

When a connection is made using EasyMP Network Projection, the projected image remains as 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 Network Configuration screen from the Configuration menu displayed on the projector?	When the Network Configuration screen is displayed on the projector, network connection for EasyMP Network Projection is disabled. 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.
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.36

Check	Remedy
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?	Check that the network cable is connected correctly. Reconnect it if it is not connected or not connected properly.

Cannot connect in Advanced Connection Mode

Check	Remedy
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.☛ *User's Guide* "Network Menu (for EB-1920W/1910/1830)"
Are the access point and the projector's subnet different?	Select **Manual search** from EasyMP Network Projection, specify the IP address, and connect. ☛ p.30

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.

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

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.
Have you enabled DHCP?	When DHCP is set to **On** in Advanced Connection Mode or Wired LAN connection, if an available DHCP server is not found, it takes time to enter LAN standby status.

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. For details on the network settings to be made on the projector, see ☛ *User's Guide* "Network Menu (for EB-1920W/1910/1830)"
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 the **Yes** button is clicked, it connects to the projector. The connection between the projector and the other computer is cut off. When the **No** button 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 and then reinstall EasyMP Network Projection. ☛ 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. 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.13
Network adapter information could not be obtained.	Check the following point. 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 following. Check the network settings on the computer and the network settings on the projector. For details on the network settings to be made on the projector, see ☛ *User's Guide* "Network Menu (for EB-1920W/1910/1830)"
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.	You cannot connect to multiple projectors simultaneously. Check the network settings on the computer and the network settings on the projector. For details on the network settings to be made on the projector, see ☛ *User's Guide* "Network Menu (for EB-1920W/1910/1830)"
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 EPSON USB Display is running.	Close USB Display and then start EasyMP Network Projection.
Cannot connect to the projector using this version of EasyMP Network Projection. Install the latest version of EasyMP Network Projection.	This message is displayed when connecting to the projector with EMP NS Connection. To connect, install the current version of EasyMP Network Projection from the EPSON Projector Software for Meeting & Monitoring CD-ROM supplied with the projector.

Problems Concerning Monitoring and Control

Mail is not sent even if a problem occurs in the projector.

Check	Remedy
Is the network connect setting correct?	Check the projector's network settings. ☛ *User's Guide* "Network Menu (for EB-1920W/1910/1830)"
Is **Standby Mode** set to **Network On**?	To use the Mail Notification function when the projector is in standby, set **Network On** in **Standby Mode** from the Configuration Menu.☛ *User's Guide* "Extended Menu"
Did a fatal abnormality occur and the projector come to a sudden stop?	When the projector comes to a sudden stop, mail cannot be sent. If, after checking the projector, the abnormal state continues, contact your local dealer or the nearest address provided in the Support and Service Guide. ☛ *Epson Projector Contact List*
Is power being supplied to the projector?	Check that there has not been a local power failure or that the circuit breaker for the electrical outlet of the projector has not been tripped.
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.

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 type of video signal with a resolution of 800 (horizontal) × 600 (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.
VGA	A type of video signal with a resolution of 640 (horizontal) × 480 (vertical) dots that is used by IBM PC/AT-compatible computers.
Virtual Display	The screen for one computer is output to multiple displays. A large virtual screen can be created by using multiple displays.
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.

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