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Projector Functions

The EasyMP.net installed in the projector provides the functions required for presentation. The following explains how to use each of these simple but powerful software functions.

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Use the EasyPlayer software to play back motion pictures, sounds and still images. To start EasyPlayer, click "EasyPlayer" on the Main Menu. EasyPlayer can display or play back the following motion pictures, sounds and still image files.

<table>
<thead>
<tr>
<th>File format/type</th>
<th>File extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows media (audio/video file)</td>
<td>.asf, .asx, .wma, .wmv, .wmx</td>
</tr>
<tr>
<td>Windows audio/video file</td>
<td>.avi, .wav</td>
</tr>
<tr>
<td>MPEG (Moving Picture Experts Group)</td>
<td>.mpeg, .mpg</td>
</tr>
<tr>
<td>MP3</td>
<td>.mp3</td>
</tr>
<tr>
<td>Still image file</td>
<td>.bmp, .jpg, .jpeg, .png</td>
</tr>
</tbody>
</table>

**TIP**

When using your projector system for the first time, you must initialize EasyPlayer. Set it up by following the on-screen instructions. Once initialized, you need not repeat the initialization during the second and subsequent startup.

**Selecting a File**

To select and open a file in EasyPlayer, use the File Manager shown at the right of the screen. Click "EasyMP.net" or "NetWork" to select the file location, and browse to the folder that contains the desired file.

The file list is switched from large icon display, small icon display and detailed display each time is clicked (as shown below).
Displaying Motion Pictures and Video Images (EasyPlayer)

**Playlist**
By double-clicking a motion picture file, audio file or playlist file, the listing information is stored in the ASX file and displayed in the playlist. You can also open the playlist by clicking the "Playlist" tab. To play a playlist item, double-click its tab. If you skip item selection and click "Play", the first item in the playlist is played. When the playback ends, the next item is played. If no item remains, the system pauses. The Playlist items are played in the sequence of ASX files. The item sequence cannot be changed.

**Continuous Play of Still Image Files from a Folder**
Right-click a folder in the File Manager and select "Plazing the slide show" to play still image files from the folder continuously. To change the play interval or effects of the slide show, use EasyConfiguration. p.21

Playing Motion Pictures
The projector can play, pause, rewind, or fast forward motion pictures in a similar way to a video cassette recorder (VCR). The "Rewind" and "Fast Forward" operations stop when their buttons are released.

**Full-screen display**
To display an image on the entire screen, click "Full screen". In the full-screen display mode, you can open a shortcut menu for further functions by clicking the right mouse button.

- Selects a file.
- Display Full-screen mode
- Operation buttons
- Quit full-screen display
Playing Sounds

Similar to motion pictures, MP3 and other sound files can be Paused, Previous, Rewound or Fast Forwarded. EasyPlayer displays the following image during sound play.

Full-screen display
To display an image on the entire screen, click "Full screen". In the full-screen display mode, you can open a shortcut menu for further functions by clicking the right mouse button.

Displaying a Digital Camera Image (Still Image)

Still image files such as JPEG-format files (.jpg, .jpeg) and Windows bitmap files (.bmp) can be displayed. To rotate the image, click the "Rotate to right" or "Rotate to left" buttons, or right-click the image and select "Rotate to right" or "Rotate to left".

Full-screen display
To display an image on the entire screen, click "Full screen". In full-screen display mode, you can open a shortcut menu for further functions by clicking the right mouse button.
Adding a Comment to the Projected Still images

A comment can be added by using the EasyMarker feature.
Right-click the full screen image (p.6) and select "EasyMarker".

Start EasyMarker

The image with comments can be saved.
"Save Tool" p.11.
Use EasyFile to process a file. Click "EasyFile" on the Task Manager.

**Selecting a File**

To select a file from EasyFile, click "EasyMP.net", then "NetWork", then a folder to select the file location. The file list is switched from large icon display to small icon display and detailed display each time is clicked (as shown below).

**Copying or Moving a File**

To copy or move a file using EasyFile, drag and drop the file from the right File Manager to the left one or vice versa. A file residing on the network can be copied or moved. You can also copy or move a file by clicking "Copy", "Cut" and "Paste" at the top of the EasyFile window.

**Deleting a File**

To delete a file, select it and click "Delete". To delete multiple files at the same time, select the files by dragging and click "Delete". When you are using both keyboard and mouse, hold down the [Shift] key (for range selection) or the [Ctrl] key (for a single file selection) and click the files to be deleted.

**Executing a File**

To execute a file or to open and display a file using its related software, double-click the file or right-click the file and select "Run".
Displaying a Web Page (EasyBrowser)

To display a Web page, use EasyBrowser. Click "EasyBrowser" on the Main Menu. EasyBrowser is a tab browser that can display multiple Web pages. During a presentation, you can display other Web pages in other windows and you can switch and project the required page one after the other.

Operation

Click the toolbar buttons and tabs at the top of the screen to display Web pages.

Operation Buttons

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Go</td>
<td>Moves to the URL page you have entered in the Address input field.</td>
</tr>
<tr>
<td></td>
<td>Start EasyMarker</td>
<td>Starts EasyMarker to add markings and comments. (&quot;Adding Markings and Comments during a Presentation&quot; p.11)</td>
</tr>
<tr>
<td></td>
<td>Page End</td>
<td>Closes the window.</td>
</tr>
<tr>
<td></td>
<td>Fixed Menu</td>
<td>Make the window take up the whole screen or shrink the window by displaying or clearing the toolbar and tab. During maximum display, the toolbar and tab are redisplayed once the cursor is moved to the top of the screen.</td>
</tr>
</tbody>
</table>

Displaying a page using its URL

To display a Web page, enter the URL in the address input field and click "Move".

If you have already added the required page to “My Favourites”, click "Favourites".

Full-screen display

To make the window take up the whole screen, click "Fixed Menu". During the maximum display, the toolbar and tab are redisplayed once the cursor is moved to the top of the screen.

To restore the window, right-click anywhere in the window and click "Fixed Menu" on the shortcut menu.

Displaying Another Window

To open another window, click "Open a Window". When you click a tab, the window related to the tab appears. You can open up to eight windows simultaneously and you can switch between them.

Click the appropriate tab to display another window.
Adding a Comment to the Displayed Page

Click "Start EasyMarker" on the toolbar to add a marking or a comment to the currently displayed page. You can save the page with the markings and comments in an image file and use it later.
See "Adding Markings and Comments during a Presentation" p.11
Adding Markings and Comments to the Image (EasyMarker)

When EasyBrowser or EasyPlayer projects an image on the screen, a marking or comment can be added to the image using EasyMarker. If you are using EasyMP.net during a presentation, you can add text markings in any colour, as well as arrows (by using the stamp feature). You can also highlight characters.

### Startup

The following table shows how to start the Markings and Comments function.

<table>
<thead>
<tr>
<th>EasyBrowser</th>
<th>Click  on the toolbar.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EasyPlayer</td>
<td>Right-click from any position during full-screen display of a still image, and click . You cannot use this function when you are playing motion pictures.</td>
</tr>
</tbody>
</table>

When one of the projector's applications application is started Click the center button of the mouse, or press the [Effect] button of the remote control.

### Toolbar

Click the required button on the toolbar to draw or erase.

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eraser</td>
<td>Pen</td>
<td>Used to draw lines. If semitransparent lines are drawn, the effect is similar to using a highlighter marker pen.</td>
</tr>
<tr>
<td>Stamp</td>
<td>Stamp</td>
<td>There are 14 different stamp symbols which can be used.</td>
</tr>
<tr>
<td>Character</td>
<td>Character</td>
<td>Enters text.</td>
</tr>
</tbody>
</table>

### Using the Tools

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eraser</td>
<td>Partially erases an entry.</td>
<td></td>
</tr>
<tr>
<td>Return to original state</td>
<td>Clears or erases all markings and comments.</td>
<td></td>
</tr>
<tr>
<td>Undo</td>
<td>Cancels the last operation.</td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>To display the properties of the selected pen, stamp, Character and Eraser.</td>
<td></td>
</tr>
<tr>
<td>Save</td>
<td>Saves the projected image as an image file.</td>
<td></td>
</tr>
<tr>
<td>Quit</td>
<td>Quits EasyMarker. If you click this button without saving, the image is abandoned.</td>
<td></td>
</tr>
<tr>
<td>Close</td>
<td>Closes the EasyMarker toolbar. To display the toolbar again, right-click on the screen.</td>
<td></td>
</tr>
</tbody>
</table>

### Property Tool

The properties for pen, stamp, character and eraser tools can be displayed, cleared or changed.
Adding Markings and Comments during a Presentation

**Pen Tool**
A line can be drawn by dragging the pencil pointer. The line thickness and colour can be selected from the properties. The initial value for the pen colour can be changed by using EasyConfiguration (p.21).

![Pen Tool Diagram]

You can use a semitransparent colour to mark the background like a highlighter pen.

**Stamp tool**
One of 14 different symbols can be stamped in any position by clicking this tool. Two stamps (horizontal and vertical lines) at the left top position of the palette draw lines from one end to the other end of the screen. (You cannot change the colour and thickness.)

![Stamp Tool Diagram]
Adding Markings and Comments during a Presentation

**Text Tool**
When you drag from a left upper position to a right lower position, a character input frame appears into which you can enter text. The size and colour of the text can be selected from the properties.

To end the text input, click outside of the text frame. The text is displayed as a image. Once characters are displayed as an image, you cannot change the text.

**Eraser and Return to original state Tools**
You can erase an image drawn by EasyMarker by dragging the eraser pointer. The width of the eraser can be selected from the properties. To clear the entire image, click the "Return to original state" tool.

**Undo Tool**
When this tool is clicked, your last operation is undone (or cancelled). When clicked again, the operation is repeated. Only the last operation can be undone or repeated.

**Save Tool**
When this tool is clicked, the on-screen image is saved as a bitmap format file. The file format can be changed to JPEG format by using EasyConfiguration (p.21). The file is stored in the folder of the user who has logged in (the user ID name).

"User Registration and Data Management" in EasyMP.net Setup Guide.
Adding Markings and Comments during a Presentation

Quit Tool
When this tool is clicked, EasyMarker is closed and the previous screen appears. All of your entries are cleared. Your entries are only stored in a file when they are saved using the Save tool. (If you have forgotten to select Save, no warning message will be sent to the screen before EasyMarker closes.)

Using the Projector as a Whiteboard (EasyBoard)
EasyBoard allows you to use the projector as a whiteboard. When you start EasyBoard, the toolbar appears on a clear background and you can start drawing an image using the tools.

Changing the Initial Values of Background and Pen Colours
The initial values for background and pen colour can be changed by using EasyConfiguration (☞ p.21). Images are easy to see if the black background colour is used when projecting bright images, and the white background colour is used when projecting dark images.

Using the Drawing Tools
The tools can be used in the same way as the EasyMarker tools. See "Using the Tools"☞ p.11.
Operating a Network PC (Remote Desktop)

Remote Desktop allows you to operate a network PC from a remote EasyMP.net location running Windows XP Professional. You can log onto any network PC from a remote location and start projection using applications installed on the PC.

Remote Connection

A remote connection can be established when a network PC with Windows XP Professional is used as a server, which is connected to the EasyMP.net location (serving as a client). The following setup is required on both the PC and the EasyMP.net location.

Setup on the PC (Windows XP Professional OS)

Use the following procedure on the network PC (with Windows XP Professional) to enable a remote desktop connection.

PROCEDURE

1. Select "Start" - "Control Panel" and click "System".
2. Click "Remote" and check the "Allow the user to connect to the PC from a remote location" box.
   The user (administrator), who has been created when Windows XP Professional OS was first started, has full access rights and can therefore skip Steps 3 and 4.
3. Click the "Select a Remote User" and click "Add".
4. Select the user who wishes to access from a remote location and click "OK".
   A user from the Administrators group already has access rights even if these have not yet been set. The user password must be set if this has not been done yet.

TIP

A password for each user must be set. To set the password, click "Start" - "Control Panel" and click "User Account". Select the required user account and set the user password.

Setup on the Projector (EasyMP.net)

Use the following procedure to connect the EasyMP.net location to the server PC.

PROCEDURE

1. From the Main Menu or the Task Manager, click "Remote Desktop".
Click "New...".

When the connection setup dialogue box appears, set the following items (see the table below) and click "OK".

<table>
<thead>
<tr>
<th>Item</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration name</td>
<td>Enter a name that you can easily understand.</td>
</tr>
<tr>
<td>PC</td>
<td>Enter the name or an IP address of the remote PC (running Windows XP OS).</td>
</tr>
<tr>
<td>User name</td>
<td>Enter the user name who has been authorised by Windows XP OS.</td>
</tr>
<tr>
<td>Password</td>
<td>Enter the user password.</td>
</tr>
<tr>
<td>Domain</td>
<td>Enter the domain name.</td>
</tr>
</tbody>
</table>

Use the "Settings" and "Performance" tabs for enhanced connection setup (see the table below).

Double-click the registered icon. The connection dialogue box will appear. Enter the password and click "OK" to establish the connection.
When the connection is established, the "Windows Logon" screen is projected and you are ready to operate the Windows XP desktop PC from EasyMP.net.

To terminate the remote connection, move the mouse pointer to the top of the screen and click .
Setting EasyMP.net Options (EasyConfiguration)

Various network parameters and application defaults can be set using EasyConfiguration. Click the left-hand side menu to start the setup.

Managing EasyMP.net Users

Registering/Editing/Deleting a User

"System Management" - "User management"
To register a user, click "Create New" and set the parameters in the table below.
To edit a registered user's data, click the "Edit" button before the user ID you wish to edit.

<table>
<thead>
<tr>
<th>User ID</th>
<th>Enter an ID to be used in EasyMP.net. One to 20 alphanumeric characters can be entered. No symbols are allowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password</td>
<td>Enter a password for system logon. The password can be 0 to 14 alphanumeric characters.</td>
</tr>
<tr>
<td>Reenter password</td>
<td>Reenter the password for confirmation.</td>
</tr>
</tbody>
</table>

Controlling Access Rights

"System Management" - "Access Management"
Access rights to allow or limit the access of each user to EasyMP.net can be set using the PC browser.  p.36 Access procedure.

<table>
<thead>
<tr>
<th>Access to the common folder</th>
<th>Specify the access right to the &quot;EveryOne&quot; common folder.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access to EasyMenu</td>
<td>Specify the access right to EasyMenu for projector setup using the PC browser.</td>
</tr>
<tr>
<td>Access to EasyRemote</td>
<td>Specify the access right to EasyRemote for control of the projector power and sounds using the PC browser.</td>
</tr>
</tbody>
</table>

Deleting a User

To delete a user, select the user and click "Delete".

EasyMP.net administrator
Check this box to define the current user as the EasyMP.net administrator. Then this user can set and change the EasyConfiguration data without any access restrictions.

Change the password
This box appears during user editing. Check this box to change the password.
Setting EasyMP.net Options (EasyConfiguration)

Basic System Setup

■ Setting the Date

"System Management" - "Date and Time"
The projector's built-in clock can be set.

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Day</th>
<th>Hours</th>
<th>Minutes</th>
<th>Time Zone</th>
<th>Daylight Savings Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Set the current calendar date and clock time. The hours can be set between 0 and 23 (24-hour system).</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

■ Setting the Keyboard Layout

"System Management" - "Keyboard"
The keyboard layout can be set. Select a language from the "Keyboard layout".

■ Maintenance of EasyMP.net

"System Management" - "Maintenance"
The projector setup can be reset to factory defaults.

Initialization The entire system setup will be returned to the factory default settings.

Network Setup (LAN Setup)

■ Naming the Projector

"Network" - "Projector Name"
The projector you use can be given a name so that it can be identified on the network.

| Projector Name | The projector name can be up to 15 characters. A projector name can consist of alphanumeric characters and hyphens. A projector name consisting of numbers only is not allowed. The projector restarts after the name has been set. |
| Work Group | Enter a workgroup name of the Windows network. |

■ Network Connection using Network cables

"Network" - "LAN"
The following parameters must be set to connect to a network using a network cable.

| MAC address | Display the MAC address |
| DHCP | Select "ON" to assign the IP address automatically using the DHCP. Select "OFF" to set the IP address manually. |
| IP address | Enter the fixed IP address to be assigned to the projector. |
| Subnet mask | Enter the IP address of the subnet mask. |
| Gateway address | Enter the IP address of the default gateway. |
| Primary DNS | Enter the primary IP address of the DNS. |
| Secondary DNS | Enter the secondary IP address of the DNS. |
| WINS1 | Enter the primary IP address of the WINS server. |
| WINS2 | Enter the secondary IP address of the WINS server. |
| DNS domain name | Enter the DNS domain name. |
### Establishing the Wireless LAN

"Network" - "Wireless LAN"

The following networking parameters must be set if a wireless LAN card is inserted into the PC card slot of the projector and used for networking. The wireless LAN cannot be set if the wireless LAN card is not mounted on the projector.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC address</td>
<td>Display the MAC address</td>
</tr>
<tr>
<td>DHCP</td>
<td>Select &quot;ON&quot; to assign the IP address automatically using the DHCP. Select &quot;OFF&quot; to set the IP address manually.</td>
</tr>
<tr>
<td>IP address</td>
<td>Enter the fixed IP to be assigned to the projector.</td>
</tr>
<tr>
<td>Subnet mask</td>
<td>Enter the IP address of the subnet mask.</td>
</tr>
<tr>
<td>Gateway address</td>
<td>Enter the IP address of the default gateway.</td>
</tr>
<tr>
<td>Primary DNS</td>
<td>Enter the primary IP address of the DNS.</td>
</tr>
<tr>
<td>Secondary DNS</td>
<td>Enter the secondary IP address of the DNS.</td>
</tr>
<tr>
<td>WINS1</td>
<td>Enter the primary IP address of the WINS server.</td>
</tr>
<tr>
<td>WINS2</td>
<td>Enter the secondary IP address of the WINS server.</td>
</tr>
<tr>
<td>DNS domain name</td>
<td>Enter the DNS domain name.</td>
</tr>
<tr>
<td>ESSID</td>
<td>Enter the ESSID of the wireless LAN unit.</td>
</tr>
<tr>
<td>WEP</td>
<td>Select &quot;Enabled&quot; and enter a cipher key for ciphering data to be sent. If the cipher key has been registered using WEP, data communication is allowed between devices with the same cipher key only. Enter a cipher key consisting of 10 to 26 ASCII characters or 10 to 26 hexadecimal characters. (No key ID is required because only one WEP key can be defined.)</td>
</tr>
<tr>
<td>Adhoc Mode</td>
<td>Select &quot;Enabled&quot; to start direct communication with a PC via the wireless LAN (but without passing through an access point). Set this option to &quot;Enabled&quot; if you wish to select &quot;EasyConnection Mode&quot; (p.24) from the Network Screen.</td>
</tr>
</tbody>
</table>

### Establishing the Mail Notification Function

"Network" - "Mail notification function"

The following parameters must be set if a projector error is sent to the PC by mail using the Mail Notification function (p.52)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mail notification function</td>
<td>Select &quot;ON&quot; to use the mail notification function.</td>
</tr>
<tr>
<td>Destination address 1</td>
<td>Specify the destination mail address. The address you have set as &quot;Destination address 1&quot; is also used as the source address. Up to three destinations can be registered.</td>
</tr>
<tr>
<td>IP address of SMTP server</td>
<td>Specify the IP address and the port number of the SMTP server.</td>
</tr>
<tr>
<td>Setting a Notification Event</td>
<td>Shows notification events and their numbers.</td>
</tr>
<tr>
<td>Destination address 1</td>
<td>Check the event and its number for each event sent to each address. Check &quot;All&quot; to notify all events.</td>
</tr>
<tr>
<td>Destination address 2</td>
<td>Destination address 3</td>
</tr>
<tr>
<td>Test mail</td>
<td>When &quot;Test&quot; is clicked, a test mail is sent.</td>
</tr>
</tbody>
</table>

### Establishing Projector Monitoring

"Network" - "SNMP"

The following parameters must be set if Simple Network Management Protocol (SNMP) is used for projector status monitoring between the projector and a PC through network connection.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TrapIP1</td>
<td>Enter the IP address of the PC to be monitored. Up to two trap IP addresses can be registered.</td>
</tr>
<tr>
<td>TrapIP2</td>
<td>Community Name</td>
</tr>
<tr>
<td>Community Name</td>
<td>Enter the community name of the SNMP. The name can consist of up to eight alphanumeric characters.</td>
</tr>
</tbody>
</table>
Functions Setup (Application Setup)

Network Screen Setup

"Application" - "NetworkScreen"
Specify whether to use Network Screen or not. When an image from a PC is projected by Network Screen, the use of a projector keyword (optional) is set for PC connection.

- **NetworkScreen**
  - Select "Use" to use Network Screen.
- **Projector keyword**
  - Select "Use" to use a projector keyword. If a projector keyword is used, the presentation is not interrupted by unintended wireless LAN signals sent from other devices during image projection by Network Screen.
  - The projector keyword is set automatically.
- **Easy connection**
  - Select "Enabled" to use "EasyConnection Mode" (p.24) on the Network Screen. This can be selected only when Adhoc mode has been set to "Enabled" during wireless LAN setup (p.20). When "Enabled" is set, wired LAN cannot be used.

EasyBoard Setup

"Application" - "EasyBoard"
The initial values for EasyBoard background and pen colours can be set. The storage file can also be set.

- **Background Color**
  - The background colour "White" or "Black" can be selected.
  - "White" is better for dark rooms. "Black" is better for bright rooms.
- **Default Pen Color**
  - Specify the pen colour that is used immediately after system startup.

Save format
- Specify a storage file format. BMP or JPEG formats can be selected.

Image quality
- Select an image quality to be used when images are saved in JPEG file format.

EasyBrowser Setup

"Application" - "EasyBrowser"
The following parameters must be set if EasyBrowser is used to display Internet Web pages.

- **Detects the setup automatically.**
  - Select "Detect" to automatically detect the proxy server setup and its configuration.
- **Automatic Configuration script for users.**
  - Check this box to use automatic configuration script. The proxy can be set if "Check the Detailed Setup" is clicked.
- **Home page**
  - Specify the URL to be displayed first when the system starts. Any page can be selected from the "Favourite Selection" list.
- **Search page**
  - Specify the URL of the page to be displayed by clicking "Search" on the toolbar. Any page can be selected from the "Favourite Selection" list.
- **Security**
  - Set a security level to be used when displaying Internet pages.

EasyPlayer Setup

"Application" - "EasyPlayer"
The initial value is set when a slideshow is played back by EasyPlayer.

- **Slideshow Play Interval**
  - Specify a time interval between slides. It can be 0 to 300 seconds.
- **Playback Effects**
  - Select special effects during slide change.
## Setting EasyMP.net Options (EasyConfiguration)

### Buffer
Set a network buffer size. This is the amount of information that is stored before a file or a stream file is played back by EasyPlayer. Specify the buffer size within the range of 1 to 60.

### Connection speed
Select a network connection speed.

### Protocols
Select a protocol for streaming file reception. We recommend you select all protocols here. If a firewall is used on the network or if you do not wish to use specific protocols, uncheck those protocols. A specific port can be set for the "Port" of the UDP.

### Proxy setup
Set a proxy value for the proxy server used for each protocol. However, the proxy setup is not required if no firewall is used. The protocol operation can be set on the proxy server when each protocol is clicked.

### Proxy setup procedure
Select one of the following options.
- The proxy setup is detected automatically. (Recommended)
  This allows you to automatically detect an open port and receive a stream via the port.
- Use the proxy setup of EasyBrowser.
  This allows you to access the network using the same configuration as EasyBrowser.
- Do not use the proxy server.
  EasyPlayer does not communicate with the proxy server. If this option is selected, no stream will be received from the Internet.
- Use the next proxy server.
  This allows you to use the following proxy server and port to receive a stream.

#### Proxy setup options
- **HTTP**
- **MMS**
- **RTSP**

### Start Date & Time
Select the Date & Time, Every Day and Every Week, and enter the start time.

### Operation Time
Specify the projector operation time in minutes. If "Not specified" is selected, the projector continues to operate until there are no images left.

### Video Source
Specify the source of the images to be projected.

### Operation
Specify the projection file and address.

#### EasyMP.net
Enter the file path in EasyMP.net you wish to project (e.g. everyone/easymp.jpg). The application will start from EasyMP.net.

#### Network Computer
Enter the file path of the network PC (e.g. //epson/share/easymp.jpg). An application that can open the file is called from the PC. The user ID and password are also required for system login.

#### URL
Enter the URL of the web page (e.g. http://www.epson.com/) you wish to display using EasyBrowser.

### Play Settings
Set the following parameters for the slideshow file included in the folder you have specified in "Operation" - "EasyMP.net".

#### Slideshow Play Interval
Specify a time interval between slides. The timer interval can range from 0 to 300 seconds.

#### Slideshow Playback Effects
Select the special effects during slide change.

#### Repeat Play
Select "ON" to repeat the play.

---

## Automatic Projection by Schedule (Timer Setup)

### Timer
Automatic projection starts if "Create New Timer" is clicked and the timer is set. Up to 10 timer schedules can be registered.

<table>
<thead>
<tr>
<th>Start Date &amp; Time</th>
<th>Operation Time</th>
<th>Video Source</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the Date &amp; Time, Every Day and Every Week, and enter the start time.</td>
<td>Specify the projector operation time in minutes. If &quot;Not specified&quot; is selected, the projector continues to operate until there are no images left.</td>
<td>Specify the source of the images to be projected.</td>
<td>Specify the projection file and address.</td>
</tr>
</tbody>
</table>

#### EasyMP.net
Enter the file path in EasyMP.net you wish to project (e.g. everyone/easymp.jpg). The application will start from EasyMP.net.

#### Network Computer
Enter the file path of the network PC (e.g. //epson/share/easymp.jpg). An application that can open the file is called from the PC. The user ID and password are also required for system login.

#### URL
Enter the URL of the web page (e.g. http://www.epson.com/) you wish to display using EasyBrowser.

#### Address
Enter the IP address of the proxy server you use.

#### Port
Enter the port number of the proxy server you use.

#### Bypass proxy server for local address
If checked, EasyPlayer is not connected to the proxy server when a stream sent from the local server is received.

#### Do not use the proxy at the next and subsequent addresses.
Enter the URL of the local server used for stream distribution.
Operations from the PC (via Network)

The following explains how to project images of a network PC and how to change the system setup using the browser. The integrated management by EMP Monitor is also explained.

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  • Connecting to the Projector ...................................................................... 25
    • If the Connected Projector is Not Displayed ......................................... 27
  • Projector Connection by Creating a Projector Group ................................ 29
    • Creating a Group .................................................................................... 29
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Projecting PC Images (Network Screen)

If the projector is connected to a PC via a network, images stored in the PC can be projected after a simple setup process.

System Configuration Example

**EasyConnection Mode**

Network Screen allows you to easily connect a PC to the projector in Easy Connection mode. In EasyConnection mode, wireless LAN adhoc mode is used (direct communication without passing through an access point) and the PC is connected to the projector without using a complicated network setup. EasyConnection mode can be used if the projector setup is changed in EasyConfiguration. See p.24 "Before Starting the Network Screen".

**Before Starting the Network Screen**

Before starting the Network Screen, perform the following:

- Install EMP NS Connection on the PC.
- "EasyMP.net Software" in the EasyMP.net Setup Guide
- Prepare a network connection for both PC and projector.
- The following options must be set in EasyConfiguration:
  - Set Network Screen to "Use" (p.21).
  - Set the projector keyword to "Use" (p.21).
- Set the following options in EasyConfiguration when connecting the PC and projector in EasyConnection mode:
  - Set "Adhoc mode" to "Enable" for wireless LAN setup (p.20).
  - Set "EasyConnection" to "Enable" for Network Screen setup (p.21).

**PC Restrictions**

The following restrictions apply if EMP NS Connection is used and PC images are projected by the Network Screen function.

**Supported resolution**

The screen resolution of the PC is limited to the following when images are projected. A PC which has a resolution higher than the UXGA standard cannot be used.

- **VGA** (640×480 pixels)
- **SVGA** (800×600 pixels)
- **XGA** (1024×768 pixels)
- **Quad-VGA** (1280×960 pixels)
- **SXGA** (1280×1024 pixels)
- **SXGA+** (1400×1050 pixels)
- **UXGA** (1600×1200 pixels)

If the display resolution of the PC is higher than the XGA resolution, the following message appears during projection.

Image transfer slows down if the PC resolution is higher than XGA (1024 X 768 pixels). Do you want to continue?
Projecting PC Images (Network Screen)

If you click "Yes", the process continues but the display speed drops. If the PC uses a special screen size such as 1280 × 600 pixels, the resolution that matches the number of pixels in the horizontal direction is selected for projection. Blank areas in the vertical direction will be projected in black.

Display colours
The PC screen can project in the following colour modes.
• 8-bit colour (256 colours)
• 16-bit colour
• 24-bit colour
• 32-bit colour
If 24-bit or higher colour mode is selected, the following message appears during projection.

If you click "Yes", the process continues but the display speed drops.

Number of Projectors that can be Connected
Up to four projectors can be connected to a single PC, and images can be projected by all four projectors simultaneously. However, multiple PCs cannot be connected to a single projector.

Other Restrictions
• No sounds are transmitted.
• When motion pictures are projected, the playback will not be as smooth as when they are played on a PC.
• Applications that use partial DirectX functions may not be projected correctly.
• The DOS prompt cannot be projected in full-screen mode.

Connecting to the Projector
Start EMP NS Connection in Windows and connect the PC to the projector.

TIP
Mount the wireless LAN card on the PC before starting EMP NS Connection. The card will not be recognized if it is mounted after EMP NS Connection has been started.

PROCEDURE
1. Select "Start" - "Program" (or "All Programs") - "EPSON Projector" - "EMP NS Connection" in this order to start the EMP NS Connection software.

When you are using EMP NS Connection for the first time after its installation, the Network selection screen appears. Select the network interface you will use for connection and click "OK".

Image transfer slows down if the screen colour exceeds 24 bits. NS connection converts it to 16 bits. Do you want to continue?

...
Check the projector you wish to connect.
The projector name you have set in EasyConfiguration is displayed (p.19). If you have no destination, you can connect using the procedure on p.27 “If the Connected Projector is Not Displayed”.

TIP
- If no IP address has been set on the projector, a message showing "No network adapter is found" may appear. The reason for this is that it takes time to determine an IP address if the connection to DHCP server has failed. Wait for approximately 60 seconds, and repeat the procedure from Step 1.
- Once you have selected a network adapter on the Network Selection screen, this screen will not be displayed again when EMP NS Connection is started. If you wish to change the network adapter, select the projector selection screen (see Step 2) and click "Extension". When you click "Switch LAN" on the Extension screen, the Network Selection screen appears.

TIP
- When you select a projector which is already connected to another PC, the other PC will be disconnected and the projector will display the image from the new PC.
- When you select multiple projectors, you can project an image from a single PC to multiple projectors. Up to four (4) projectors can be selected to project an image from one PC.
- Once you have connected a projector or projectors to a PC, you cannot add another projector.
To use data ciphering, click "Extension".
If you do not want to use ciphering, go to Step 5.

Check the "Use encrypted" box and click "OK".

Click "Connect".

Enter the projector keyword in the "Keyword" field and click "OK". The keyword is shown on the projector's standby screen.
If the projector keyword is not set to "Use" in EasyConfiguration (p.21), the keyword input screen is not displayed.

The projector will be connected to the PC via the network, and the screen of the PC will be projected.

TIP
The projector keyword is changed when you turn the projector power off and turn it on again or when you remove the wireless LAN card from the slot and insert it again. When you connect a projector to a PC, always check the projector keyword on the connection standby screen of the projector and enter it in the "Keyword" field. You cannot use the previous keyword to connect the projector to a PC.
When the Network Screen is used, the button of remote control cannot be used.
When you take over from a previous presenter and want to use a different PC, restart EMP NS Connection from the new PC. The current connection will be released and the projector will be connected to the new PC automatically.

When you control a projector from a PC, use Remote Control or the on-screen toolbar. (p.33).

If the Connected Projector is Not Displayed
If the connected projector name is not listed on the Projector Selection screen of EMP NS Connection, select the "Connection with IP setupC mode and specify the IP address as follows.

PROCEDURE
Select "Start" - "Program" (or "All Programs") - "EPSON Projector" - "EMP NS Connection" in this order to start EMP NS Connection.
1. Click "Extension".

2. Check the "Use IP connect mode" box and click "OK".

3. Click "IP connection".

4. Enter the IP address of the projector you wish to connect to in the "IP address" box and click "Search".

The projector name with specified IP address is displayed in the "Registered Projectors" field. To search for another projector, repeat Step 5.

5. Select the projector you want to connect to, and click "Connect".

The projector name shown on the projector connection standby screen is displayed in the "Searching result" box.
Projecting PC Images (Network Screen)

Projector Connection by Creating a Projector Group

The projector name can be displayed each time EMS NS Connection is started if a group has been created and the projector has been registered in the group. If not registered in the group, the projector name will not be displayed the next time EMS NS Connection is started.

EMS NS Connection allows you to register up to 16 projectors in a single group. The following explains how to create a group and how to connect a projector using the group.

**Creating a Group**

**PROCEDURE**

1. Select "Start- "Program" (or "All Programs")- "EPSON Projector"- "EMP NS Connection" in this order to start EMP NS Connection.

2. Click "Extension".

3. Check "Use IP-specified connection" and "Use group list", and click "Advanced".

4. To add a group, click "New".

5. Enter a group name in "Connection Group".

**TIP**

The next time EMS NS Connection is started, the projector you have added to the "Registered Projectors" in the last operation is NOT displayed. If you wish to display the same projector in the next and subsequent operations, you must create a group and register the desired projector in it. (☞ p.29)

**TIP**

To edit an existing group, select a group name from "Connection Groups" and proceed to Step 6.
Enter an **IP address** of the projector you wish to register in "IP Address", and click "Add". The projector name with the specified IP address will be added to the registered projector list. If you wish to register another projector, repeat Step 6. Up to 16 projectors can be registered in a single group. To delete a projector from its list, select the projector name and click "Delete".

Click "OK". When a confirmation message appears, respond with "Yes". The group will be stored. When you edit and save an existing group or when the group you have specified already exists, an overwrite confirmation message appears. When you click "Yes", the group is stored by overwriting. To save it under a different name, click "No" and enter a group name in "Connection Group". To delete a group, select it from "Connection Group" and click "Delete".

Click "Close". The Extension screen will appear again.

### Projector Connection Using a Group

**PROCEDURE**

1. Select "Start" - "Program" (or "All Programs") - "EPSON Projector" - "EMP NS Connection" in this order to start EMP NS Connection.

2. Click "Extension".

3. Check "Use IPconnect mode" and "Use group list".

4. Select a projector you wish to connect from "Connection Group", and click "OK".

5. Select a projector you wish to connect, and click "Connect".
Exporting and Importing a Group

The information of a group can be saved (or exported) in a file, and it can be used on multiple PCs. When you use an exported group information file, you can connect your PC to a projector without searching for a projector if you have changed the PC.

To use the group information on another PC, read (or import) the exported group information in EMP NS Connection. The following explains how to export and import the group information.

Exporting a Group

**TIP**

- Before exporting a group, you must create and save at least one group. (  p.29)
- You cannot export a group while you are creating or editing it.

**PROCEDURE**

1. Select "Start"- "Program" (or "All Programs")- "EPSON Projector"- "EMP NS Connection" to start in this order EMP NS Connection.
2. Click "Extension".
3. Check "Use IPconnect mode" and "Use group list", and click "Advanced".
4. Select a group you wish to export from "Connection Group", and click "Export".
5. Select the destination folder, enter a file name (with an ".ini" extension), and click "Save".

The group information will be exported as the specified file name.
Importing a Group

While you are creating or editing a group, you cannot import.

PROCEDURE

1. Select "Start"- "Program" (or "All Programs")- "EPSON Projector"- "EMP NS Connection" to start in this order EMP NS Connection.

2. Click "Extension".

3. Check "Use IP-specified connection" and "Use group list", and click "Advance".

4. Click "Import".

5. Select a file you wish to import, and click "Open". The imported group name will be displayed on the "Connection Group" list. If the name of an imported group has already been registered on the "Connection Group" list, an overwrite confirmation message is displayed. When you click "Yes", the imported group will be registered by overwriting. When you click "No", the group will not be imported.
Using the Toolbar

The projector is usually controlled by the remote control. However, if EMS NS Connection is used, the projector can be controlled by using the toolbar on the desktop of the connected PC.

Use the remote control to set up and operate the projector.
"Selecting the Projection Quality (Colour Mode Selection)", "Advanced Operations" in the User’s Guide.

 Toolbar

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display projector</td>
<td>Help</td>
<td>Displays EMP NS Connection Help.</td>
</tr>
<tr>
<td>Basic setup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switches between the PC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disconnect</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Help</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switches between the</td>
<td></td>
<td></td>
</tr>
<tr>
<td>video sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>indicator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pause</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-Zoom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Setup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switch video sources</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

These buttons have the following functions.

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Basic setup</td>
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<td></td>
</tr>
<tr>
<td>sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disconnect</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>indicator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pause</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-Zoom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Setup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switch video sources</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Projecting PC Images (Network Screen)

When "E-Zoom" is clicked, the following setup screen appears for zooming and position adjustment.

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch PC sources</td>
<td>Switches the PC input source between the &quot;DV1&quot;, &quot;Computer1&quot; or &quot;Computer2&quot; ports on the projector rear panel or to the image of the connected PC. This function is the same as the &quot;Computer/DVI&quot; button on the projector control panel. p.38 &quot;Turning the Power On and Projecting Images&quot; in the User’s Guide.</td>
<td></td>
</tr>
<tr>
<td>Disconnect</td>
<td>Disconnects the current projector's network connection.</td>
<td></td>
</tr>
<tr>
<td>Operation status indicator</td>
<td>When the PC and one or more projectors are connected via the network, the top, intermediate and bottom indicators blink alternately. The indicators will not light if the PC and projectors are not connected correctly.</td>
<td></td>
</tr>
<tr>
<td>Quit</td>
<td>Disconnects the current projector's network connection and terminates EMP NS Connection.</td>
<td></td>
</tr>
<tr>
<td>Minimize</td>
<td>Minimizes the toolbar and displays it as a button on the Windows taskbar.</td>
<td></td>
</tr>
</tbody>
</table>

E-Zoom

When "E-Zoom" is clicked, the following setup screen appears for zooming and position adjustment.

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Zoom</td>
<td>Controls the scale of E-Zooming. The &quot;+&quot; enlarges the image, and the &quot;-&quot; reduces the image. This performs the same function as the [ ] and [ ] buttons on the remote control.</td>
</tr>
</tbody>
</table>

Basic Setting

When "Basic Setup" is clicked, the following setup screen appears for brightness control, keystone distortion correction, contrast control and colour mode adjustment.

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td>Moves the selection cross to specify the area to be enlarged or reduced. ( \text{Upward} ) ( \text{Left} ) ( \text{Downward} ) ( \text{Right} ) p.60 &quot;E-Zoom Function&quot; in the User’s Guide.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Cancels E-Zoom and returns to the standard display size.</td>
</tr>
<tr>
<td>Projector</td>
<td>Displays the name of the projector to be controlled. E-zoom can only be used for one projector at a time.</td>
</tr>
<tr>
<td>Close</td>
<td>Closes the E-Zoom Setup screen.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness level</td>
<td>Increases the brightness. Decreases the brightness.</td>
</tr>
<tr>
<td>Keystone distortion</td>
<td>Corrects the keystone distortion. ( \text{Narrow top} ) ( \text{Narrow bottom} )</td>
</tr>
<tr>
<td>Contrast</td>
<td>Increases contrast. Decreases contrast.</td>
</tr>
</tbody>
</table>
Disconnecting the Network Connection

There are two ways to disconnect the network connection between the projector and the PC. You can either disconnect the PC from the projector or disconnect the projector from the PC.

## Disconnecting the Network Connection from the PC

Click "Disconnect" or "Quit" on the EMP NS Connection toolbar.

- If you click "Disconnect", the network connection is disconnected.
- If you click "Quit", the network connection is disconnected and EMP NS Connection is terminated.

### PROCEDURE

1. Press the [ESC] button on the remote control.
2. Select "Quit" and press the [Enter] button on the remote control.

   The message "The projector was disconnected from the PC." appears on the PC screen.

## Disconnecting the Network Connection from the Projector

If multiple projectors are connected to the PC, they will all be disconnected.

### PROCEDURE

1. Keystone distortion correction will reduce the size of the projected image.
2. If you experience a lack of uniformity after keystone distortion correction, reduce the sharpness level.  
   - p.75 "Video" Menu in the "User’s Guide".
3. Keystone distortion can also be corrected from the projector's configuration menu.  
   - p.82 "Setting" Menu in the "User’s Guide".
4. If the gauge indicator value does not change when you are correcting keystone distortion, you have exceeded the correction limit. Make sure the projector is not tilted beyond the limit.  
   - p.48 "Correcting Distortion in the Projection Area (Keystone Correction)" in the "User’s Guide".

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Function</th>
</tr>
</thead>
</table>
| Color mode    | Selects one of 5 colour modes to suit the images you are projecting. The brightness level will also vary between the modes. The next mode is selected each time "Color Mode" is clicked according to the following sequence.  
   - Presentation ➔ Theatre ➔ sRGB ➔ Livingroom ➔ Dynamic ➔ Theatre ➔ sRGB ➔ Livingroom ➔ Dynamic   |
| Selected projector | Displays the name of the selected projector. If multiple projectors are connected to the PC, select the projector that you want to control. |
| Close         | Closes the Basic Setup screen.                                             |

TIP

- Keystone distortion correction will reduce the size of the projected image.
- If you experience a lack of uniformity after keystone distortion correction, reduce the sharpness level.  
  - p.75 "Video" Menu in the "User’s Guide".
- Keystone distortion can also be corrected from the projector's configuration menu.  
  - p.82 "Setting" Menu in the "User’s Guide".
- If the gauge indicator value does not change when you are correcting keystone distortion, you have exceeded the correction limit. Make sure the projector is not tilted beyond the limit.  
  - p.48 "Correcting Distortion in the Projection Area (Keystone Correction)" in the "User’s Guide".
Projector Setup from the PC (EasyWeb)

A projector can be set up and operated using a Web browser through a network connection.

System Configuration Example

Only the administrator or a user with sufficient access rights can access the Change Setup page using a Web browser. Note that EasyConfiguration can be accessed only by the administrator (or a user administrator rights). Access rights can be assigned to a user by selecting "System Management" - "Access Management" in EasyConfiguration (p.18).

Before Operations

- Preparing the Projector
  Before using EasyWeb, check the following points.
  - Prepare both the PC and the projector for connection to the network.

- Operating Environment
  Supported browser software: Internet Explorer (Version 5.01 and higher)
  * Set the screen resolution to 1024×768 pixels or higher, and set the display colours to 256 colours or more.

Starting EasyWeb

PROCEDURE

1. Start your Web browser on the PC.
2. Enter the IP address of the projector you wish to use in the Web browser, and connect.

TIP

You can set up and operate the projector using EasyWeb even when the projector is in standby mode (when the indicator is orange), but only if you have selected the "Advanced1" - "Standby Mode" from the projector's configuration menu and if you have selected the "Enable Network" option.

If EMP NS Connection is installed, click "Display the projector operation URL" on the toolbar.

Display the projector URL
3. Enter the administrator's ID and password, and click "LOGON".

4. Click "EasyConfiguration", "EasyMenu" or "EasyRemote" to set up or operate the projector.

**EasyConfiguration**

EasyConfiguration allows you to operate the projector using a Web browser in a similar way as EasyConfiguration in EasyMP.net. For details of the settings that can be made, see the "Setting EasyMP.net Options (EasyConfiguration)" section (p.18) and following sections.

Only the administrator (or a user with administrator rights) can access EasyConfiguration.

To define a user as an administrator, select "System Management" - "User Management" in EasyConfiguration (p.18).
EasyMenu

EasyMenu allows you to set up the system environment using a Web browser in the same way as the configuration menus of the projector. For a description of the setup elements, see p.74 "Using the Configuration Menu Functions" in the User’s Guide.

EasyRemote

The EasyRemote option allows you to adjust the projector from the PC. For details of the settings that can be made, see the User’s Guide.

Click the menu you wish to set up.

The setup items are displayed.

Click the button for the function you want.
EMP Monitor allows you to check the status of multiple projectors on the network, switch them on or off, and switch between video sources simultaneously. Up to 64 projectors can be monitored and controlled simultaneously.

System Configuration Example

Registering Projectors to be Monitored

Use this procedure when you start EMP Monitor for the first time after installation or when you register an additional projector. Once you have registered the projector, the status of registered projectors will be displayed automatically each time you start EMP Monitor.

**PROCEDURE**

1. Select "Start" - "Program" (or "All Programs") - "EPSON Projector" - "EMP Monitor" in this order to start EMP Monitor.
2. Click "Register projector".

**Preparing the PC**

- The EMP Monitor software must be installed on the network PC. ➔ "EasyMP.net Software" in the EasyMP.net Setup Guide.
- The PC and projectors must be ready to be connected to the network.

**TIP**

You can monitor projectors even when they are in standby mode (when the indicator light is lit orange), but only if you have selected "Advanced1" and "Standby Mode" from the projector's configuration menu and if you have selected the " " option.
The "Register projector" dialogue box will appear.

Register the projector with "Registration Using Auto Detection" (p.40) or "Registration Using the Projector's IP Address (Manual Registration)" (p.41).

### Registration Using Auto Detection

**PROCEDURE**

1. In the "Register projector" dialogue box, click "Auto Detection".

2. **Select the projector(s) you wish to register, and click "Add".**

   Multiple projectors can be selected simultaneously. If the projector you want to register is not displayed in the list, use "Registration Using the Projector's IP Address (Manual Registration)" (p.41).

**TIP**

- Each time EMP Monitor is displayed, a projector registered by Auto Detection will be detected again, and its IP address will be shown.
- If the password input dialogue box appears, enter the projector's administrator password (with Admin identification) and click "OK". If you have selected multiple projectors, the password input dialogue box will appear for each of them.
Registration Using the Projector's IP Address (Manual Registration)

**PROCEDURE**

1. In the "Register projector" dialogue box, click "Manual Registration".

2. Enter the **IP address** of the projector you wish to register in the "IP address" field, and click "Confirm".
   - When a projector with the same IP address is found, the projector name is displayed. If this isn't the projector you wanted to register, enter the correct IP address and click "Confirm".

3. Click "Add".

4. Enter the projector's Administrator password and click "OK".

**Editing the Manually Registered Projector List**

If the name or IP address of a manually registered projector has been changed, use the following procedure to edit the projector list.

**PROCEDURE**

1. Select the projector you wish to edit in the "Register projector" dialogue box, and click "Edit".

2. When the projector has been renamed, click "Confirm". When the IP address of the projector has been changed, enter the new IP address and click "Confirm".
   - Make sure that the correct projector name is displayed.

3. Click "Update".

**Deleting a Projector from the List**

**PROCEDURE**

Select the projector you wish to delete from the list shown in the "Register projector" dialogue box, and click "Delete".
- Multiple projectors can be deleted from the projector list simultaneously.
EMP Monitor Main Screen

The projector status is displayed on the EMP Monitor main screen. To operate a projector, select it from the projector list and press the button of the function you want.

![EMP Monitor Main Screen](image)

To terminate the projector operation, click the button in the upper right of the screen.

### Button Functions

A projector selected from the projector list can be turned on or off and its source can be switched. Projectors can also be controlled from the "Tools" menu.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;SELECT ALL&quot;</td>
<td>Selects all projectors in the list.</td>
</tr>
<tr>
<td>&quot;DETAIL&quot;</td>
<td>Displays detailed information on the selected projector. <a href="#">p.43</a></td>
</tr>
<tr>
<td></td>
<td>Turns the projector power on.</td>
</tr>
<tr>
<td></td>
<td>Turns the projector power off.</td>
</tr>
</tbody>
</table>

### Projector List

The following projector states are shown on the projector list:

<table>
<thead>
<tr>
<th>Status</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>The projector is functioning normally when turned on.</td>
</tr>
<tr>
<td>Red</td>
<td>A error has occurred in the projector when turned on.</td>
</tr>
<tr>
<td>Green</td>
<td>The projector is functioning normally when turned off.</td>
</tr>
<tr>
<td>Red</td>
<td>An error has occurred in the projector when turned off.</td>
</tr>
<tr>
<td>Red</td>
<td>A network error (including the disconnection from the network or unplugged power cable) has occurred.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer1</td>
<td></td>
</tr>
<tr>
<td>Computer2</td>
<td></td>
</tr>
<tr>
<td>BNC</td>
<td></td>
</tr>
<tr>
<td>S-Video</td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td></td>
</tr>
<tr>
<td>DVI</td>
<td></td>
</tr>
<tr>
<td>EasyMP.net</td>
<td></td>
</tr>
</tbody>
</table>
Error information: If the projector has failed, its status is identified by the following icons.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Lamp replacement notification" /></td>
<td>Replace the lamp with a new one. <a href="image">p.115 &quot;Replacing the Lamp&quot; in &quot;Replacing Consumables&quot; in the User’s Guide.</a></td>
</tr>
<tr>
<td><img src="image" alt="High-speed cooling in progress" /></td>
<td>See the <a href="image">p.98 &quot;Problem Solving&quot; section in the User’s Guide</a> for instructions on what to do if these errors occur.</td>
</tr>
<tr>
<td><img src="image" alt="Lamp cover open error" /></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="High internal temperature" /></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Internal problem" /></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Fan related error" /></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Sensor error" /></td>
<td></td>
</tr>
</tbody>
</table>

**TIP**

Error notification information can be obtained using the "Mail Notification function" even when EMP Monitor is not running. [p.52 "When You Receive a Projector Error E-mail"]

### Displaying Detailed Information

**PROCEDURE**

1. **Start EMP Monitor and select the projector of which you wish to see status information.**

2. **Click "Detailed Display".**

   Detailed status information will be displayed in the "Details" dialogue box.
Appendices

These appendices give several network configuration examples for guidance in relation to the environment setup and application hints. It also explains how to install the software on the EasyMP.net location and how to use it.

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    • Example 1: Connection Using Network Cables .................. 45
    • Example 2: Connection Using a Wireless LAN Access Point .... 46
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Examples Network Connection Configurations

Local Area Network (LAN) Environments

Example 1: Connection Using Network Cables

Network Environment
- A cabled network is in use and a network point is available to connect the projector.
- A Wireless LAN is not installed and it is not possible to use a Wireless LAN port, now or in the future.

Possible Applications
- A file on a network PC can be selected and projected using EasyFile. You do not need to bring the PC to the presentation room.
- The status of the projector can be monitored from a PC connected to the LAN. If multiple projectors have been installed, they can all be monitored from a network PC. You do not need to go to the room where the projector is installed.

Notes
- The network cable layout must first be checked if the projector is fixed to the ceiling or other fixed areas.

Connecting the Network Cable Connection

PROCEDURE

1. Plug the network cable into the Network port on the projector.

2. Set up the network connection on EasyMP.net.

→ "Establishing a Network Connection (Via a Network Cable)" in the EasyMP.net Setup Guide.
Example 2: Connection Using a Wireless LAN Access Point

Network Environment
- A Wireless LAN is in use or the projector is fixed to the ceiling and it is difficult to connect a network cable to it. This is also the case when it will be difficult to use the wireless LAN in the future.

Supported wireless LAN cards

Possible applications
- Each presenter can bring their notebook computer (with a wireless LAN port) into the presentation and project files from their computers using a wireless LAN connection. You do not need to change the PC connection for each presenter.

Notes
- A RADIUS server or others can be installed to ensure security.

Setting Up the Wireless LAN Connection

PROCEDURE
1. Insert a wireless LAN card into the PC card slot of the projector.
2. Set up the wireless LAN with EasyMP.net.
   - "Establishing a Network Connection (Via Wireless LAN)" in the EasyMP.net Setup Guide

- The status of the projector can be monitored from a PC connected to the connector. If multiple projectors have been installed, they can all be monitored from a network PC. You do not need to go to the classroom or the conference room where the projector is installed.
**Examples Network Connection Configurations**

### Example 3: Connection Using a Wireless LAN Access Point and Network Cables

**Network Environment**
- An access point for the "separate" wireless LAN is or can be installed in the room where the projector is used. However, this point cannot be connected to the office LAN or intra-office LAN.
- It is also possible to connect the cable to the network using cables because a network point is located near the projector.

**Supported Wireless LAN cards**

**Possible applications**
- Each presenter can bring their notebook computer (with a wireless LAN port) into the room where EasyMP.net is used and project files using a wireless LAN connection. You do not need to change the PC connection even when multiple presenters participate.
- A file stored on a network PC can also be used through the network connection. Large files do not need to be copied onto the notebook computer.

- A presenter can use files stored on the network PC for a presentation. They do not need to bring their computer to the presentation room.
- The status of the projector can be monitored from a PC connected to the LAN. If multiple projectors have been installed, they can all be monitored from a network PC. You do not need to go to the room where the projector is installed.

### Setting Up a LAN Connection

**<Network cable connection>**

**PROCEDURE**

1. Plug a LAN cable into the projector’s network.
2. **Set up the network connection with EasyMP.net.**

   - "Establishing a Network Connection (Via a Network Cable)" in the EasyMP.net Setup Guide

**<Wireless LAN connection>**

**PROCEDURE**

1. **Insert the wireless LAN card into the projector’s PC card slot.**
2. **Set up a wireless LAN connection with EasyMP.net.**

   - "Establishing a Network Connection (via Wireless LAN)" in the EasyMP.net Setup Guide
Example 4: Connection using Wireless Adhoc Mode and Network Cables

Network Environment
- A Wireless LAN has not been set up or an Access Point is not available near the projector.
- It is also possible to connect the cable to the network using cables because a network point is located near the projector.

Supported wireless LAN cards

Possible applications
- Each presenter can bring their computer (with a wireless LAN port) into the room where the projector is used and project files using a wireless LAN connection. You do not need to change the PC connection for each presenter.
- A file stored on a network PC can also be used through a LAN connection. Large files do not need to be copied onto the notebook computer.

Notes
- Bi-directional routing communication is not supported in adhoc mode for both network cable connection and wireless LAN connection.

Setting Up the LAN Connection
<Network cable connection>

1. Plug a network cable into the projector’s network.
2. Set up a network connection with EasyMP.net.
   🔄 "Establishing a Network Connection (Via a Network Cable)” in the EasyMP.net Setup Guide

<Wireless LAN connection>

1. Insert the wireless LAN card into the projector’s PC card slot.
Set up a wireless LAN connection with EasyMP.net.

- "Establishing a Network Connection (via Wireless LAN)" in the EasyMP.net Setup Guide.
  * Always check "Enable" for "Adhoc mode" during wireless LAN setup.

**If No Local Area Network (LAN) is Available**

**Example 5: Connection Using Wireless Adhoc Mode LAN Only**

Possible applications
- Each presenter can bring their notebook computer (with a wireless LAN port) into the room where the projector is installed and project files using a wireless connection.
  You do not need to change the PC connection for each presenter.

Notes
- As the projector is not connected to a network, it can only project files from a computer with a Wireless LAN card.

**Setting Up a Wireless LAN Connection**

**PROCEDURE**

1. Insert the wireless LAN card into the projector's PC card slot.

2. Set up a wireless LAN connection with EasyMP.net.
   "Establishing a Network Connection (via Wireless LAN)" in the EasyMP.net Setup Guide
   * Always check "Enable" for "Adhoc mode" during wireless LAN setup.

**Network Environment**
- No cable network or wireless network environment is available.
- The projector is fixed to the ceiling and installation is difficult.

**Supported wireless LAN cards**
Installing Additional Software

Some software applications supported by Windows XP, including Microsoft PowerPoint, can be installed in the projector. You can install the following software by means of a pre-installed release program ("Software Extension"):

- Application Installer
- Adobe Acrobat Reader
- Microsoft Office XP
- Real One Player

For detailed information about the application software that can be installed, see the EPSON Web Site.

http://www.epson.co.uk/

CAUTION

When you install and use software applications in the projector, you must abide by the software licence agreement. EPSON cannot be held responsible for problems caused by the breaching of software licence agreements on your part. "Software Extension" does not include licenses for additional application software. It is the customer’s responsibility to obtain licences for additional application software.

Installation Procedure

This is an example of how to install Microsoft PowerPoint.

PROCEDURE

1. Click "External Application Launcher" on the Task Manager.

2. Click "Software Extension".

Software Extension will start up. Follow the on-screen instructions.

3. On a network PC, set the CD-ROM drive to "Shared" in Windows, and place the PowerPoint installation CD-ROM in the disk drive.

4. Double-click on the PowerPoint setup program.

The PowerPoint installation will now start. Follow the on-screen instructions.
Restart the projector when the PowerPoint installation has finished.

To install Adobe Acrobat Reader, you must check both “Application Installer” and “Adobe Acrobat Reader” boxes during application selection in Step 2. The "Application Installation" function is required for the installation of certain applications.

**Executing an Installed Program**

**PROCEDURE**

1. Click "External Application Launcher" on the Task Manager.

Software icons for installed programs will be displayed.

2. Click the icon for the software you wish to start.

Executing an Installed Program. Open the required file for presentation.
When You Receive a Projector Error E-mail

The e-mail heading or subject will be "EPSON Projector".
The following information is contained in the e-mail text.
- Line 1: The name of the projector which is not functioning properly.
- Line 2: The IP address of the projector which is not functioning properly.
- Subsequent lines: Information about the problem that has been encountered.

A single problem is shown on a single line of the e-mail. One of the following messages is shown:

<table>
<thead>
<tr>
<th>Message*</th>
<th>Possible Cause</th>
<th>Action Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal error</td>
<td>An internal problem has occurred.</td>
<td>Take appropriate action by referring to the &quot;Reading the Indicators&quot; section in the User's Guide.</td>
</tr>
<tr>
<td>Fan related error</td>
<td>A problem has occurred in the fan.</td>
<td></td>
</tr>
<tr>
<td>Sensor error</td>
<td>The temperature sensor has failed.</td>
<td></td>
</tr>
<tr>
<td>Lamp cover is open</td>
<td>The lamp cover is open.</td>
<td></td>
</tr>
<tr>
<td>Lamp timer failure</td>
<td>The lamp has not lit.</td>
<td></td>
</tr>
<tr>
<td>Lamp out</td>
<td>The lamp has blown. Replace it.</td>
<td></td>
</tr>
<tr>
<td>Internal temperature error</td>
<td>The inside of the projector has overheated.</td>
<td></td>
</tr>
<tr>
<td>High-speed cooling in progress</td>
<td>The high-speed cooling mode has been selected. Check the filter.</td>
<td></td>
</tr>
<tr>
<td>Lamp replacement notification</td>
<td>The lamp is almost at the end of its life.</td>
<td></td>
</tr>
<tr>
<td>No signal</td>
<td>No signal is being received by the projector.</td>
<td>No image signal is entered in the projector. Check the connection and power of each device.</td>
</tr>
</tbody>
</table>

* A positive (+) or a negative (-) sign is added to the beginning of the message.
The positive (+) sign indicates that an error has occurred on the projector.
The negative (-) sign indicates that the problem has been solved.
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