



Disclaimer

This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (<http://www.fixyourdlp.com>) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: <http://www.fixyourdlp.com>

Video Guides: <http://www.fixyourdlp.com/guides>

User Forums: <http://www.fixyourdlp.com/forum>

FixYourDLP's Fight Against Counterfeit Lamps:

<http://www.fixyourdlp.com/counterfeits>

Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps:

<http://www.recycleyourlamp.org>

Lamp Research - The trusted 3rd party lamp research company:

<http://www.lampresearch.com>

Discount-Merchant.com – The worlds largest lamp distributor:

<http://www.discount-merchant.com>



FixYourDLP.com

Sponsored by 



User's Guide

Multimedia Projector

EB-460i

EB-460

EB-450Wi

EB-450W

EB-440W



 Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Notations Used in This Guide





- **Safety indications**

The documentation and the projector use graphical symbols to show how to use the projector safely.

Please understand and respect these caution symbols in order to avoid injury to persons or property.

 Warning	This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
 Caution	This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

- **General information indications**

Attention	Indicates procedures which may result in damage or injury if sufficient care is not taken.
	Indicates additional information and points which may be useful to know regarding a topic.
	Indicates a page where detailed information regarding a topic can be found.
	Indicates that an explanation of the underlined word or words in front of this symbol appears in the glossary of terms. See the "Glossary" section of the "Appendix".  p.131
Procedure	Indicates operating methods and the order of operations. The procedure indicated should be carried out in the order of the numbered steps.
[(Name)]	Indicates the name of the buttons on the Remote Control or the Control panel. Example: [Esc] button
"(Menu Name)" Brightness	Indicates Configuration Menu items. Example: Select "Brightness" from the Image menu. Image menu - Brightness



FixYourDLP.com
Sponsored by

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Notations Used in This Guide 2

Introduction

Projector Features 7

Convenient Equipment Designed for Ease of Use	7
Easy to handle	7
Enhanced security functions	7
Controlling Computer on Projection Surface (EB-460i/450Wi Only)	8
Easy Interactive Function	8
Drawing function	8
Selecting Various Input Sources with Multi-Connection	8
Taking full advantage of a network connection	8
Connecting with a USB cable and projecting (USB Display)	9
Projecting a computer screen with the optional Quick Wireless Connection USB Key	9
Projecting JPEG images without connecting a computer	10
Enlarge and project your files with the Document Camera	10

Part Names and Functions 11

Front/Top	11
Sides	12
Interfaces	13
Base (with Slide Plate)	14
Base (without Slide Plate)	15
Control panel	15
Remote Control	16
Easy Interactive Pen(EB-460i/450Wi Only)	18

Various Ways to Use the Projector

Changing the Installation Mode 20

Changing the Projected Image 21

Automatically Detect Input Signal and Change the Projected Image (Source Search)	21
--	----

Switch to the target image by Remote Control	22
--	----

Connecting with a USB Cable and Projecting (USB Display) 23

System Requirements	23
Connecting	24
Connecting for the first time	24
From the second time	27

Presentations Using Slideshow 28

Files that can be Projected Using Slideshow	28
Specifications for files that can be projected using Slideshow	28
Slideshow usage examples	28
Slideshow Basic Operations	29
Starting and closing Slideshow	29
Slideshow basic operations	29
Rotating images	30
Projecting Image Files	31
Projecting images	31
Projecting all image files in a folder in sequence (Slideshow)	32
Image File Display Settings and Slideshow Operation Settings	33

Connecting External Equipment 34

Connecting and Removing USB Devices	34
Connecting USB devices	34
Removing USB devices	34
Connecting an External Monitor	35
Connecting External Speakers	36
Connecting a microphone	36

Connecting a LAN Cable 37

Installing the Wireless LAN Unit 38

Functions for Enhancing Projection 39

Selecting the Projection Quality (Selecting Color Mode)	39
Setting the Auto Iris	40
Hiding the Image and Sound Temporarily (A/V Mute)	40
Freezing the Image (Freeze)	41
Changing the Aspect Ratio	41

Changing methods	41
Changing the aspect ratio for video equipment images	42
Changing the aspect ratio for computer images (EB-460i/460)	43
Changing the aspect ratio for computer images (EB-450Wi/450W/440W)	44
Using the Pointer to Highlight Sections (Pointer)	46
Enlarging Part of the Image (E-Zoom)	47
Operating the Mouse Pointer by Remote Control (Wireless Mouse)	48

Security Functions 50

Managing Users (Password Protect)	50
Type of Password Protect	50
Setting Password Protect	50
Entering the Password	51
Restricting Operation (Control Panel Lock)	52
Anti-Theft Lock	53
Installing the wire lock	53

Easy Interactive Function (EB-460i/450Wi only) 54

Summary of Easy Interactive Function	54
Operation Steps	55
Using Easy Interactive Function for the first time	55
From the second time	55
System Requirements	55
Using Easy Interactive Function for the First Time	56
Using Easy Interactive Function from the Second Time	59
Calibration	61
Cases in which calibration is required	61
Replacing the Batteries for the Easy Interactive Pen	61

Changing Settings Using a Web Browser (Web Control) 63

Displaying Web Control	63
Entering the IP address of the projector	63
Displaying Web Remote	64

Using the Mail Notification Function to Report Problems 66

Management Using SNMP 67

Saving a User's Logo 68

Saving User Pattern 70

Configuration Menu

Using the Configuration Menu 73

List of Functions 74

Image Menu	74
Signal Menu	75
Settings Menu	76
Extended Menu	78
Network Menu	80
Notes on using the Network menu	81
Soft keyboard operations	81
Basic Menu	82
Wireless LAN Menu	83
Security menu	84
When WEP is selected	85
When WPA-PSK (TKIP) or WPA2-PSK (AES) is selected	85
Wired LAN menu	86
Mail menu	87
Others Menu	88
Reset Menu	89
Info Menu (Display Only)	90
Reset Menu	91



Troubleshooting

Using the Help	93
-----------------------	-----------

Problem Solving	94
------------------------	-----------

Reading the Indicators	94
⏻ indicator is lit or flashing red	95
💡 indicator is flashing or lit orange	96
When the Indicators Provide No Help	97
Problems relating to images	98
Problems when projection starts	102
Problems relating to monitoring and control	102
Problems relating to Easy Interactive Function	103
Other problems	104

Reading Error Notification Mail	106
--	------------

Appendix

Cleaning Parts	108
-----------------------	------------

Cleaning the Projector's Surface	108
Cleaning the Projection Window	108
Cleaning the Air Filter	108

Replacing Consumables	110
------------------------------	------------

Replacing the Remote Control Batteries	110
Replacing the Lamp	111
Lamp replacement period	111
How to replace the Lamp	111
Resetting the Lamp Hours	114
Replacing the Air Filter	114
Air filter replacement period	114
How to replace the air filter	114

Optional Accessories and Consumables	116
---	------------

Optional accessories	116
Consumables	116

Screen Size and Projection Distance	117
--	------------

Projection Distance (EB-460i/460)	117
Projection Distance (EB-450Wi/450W/440W)	117

List of Supported Resolutions	119
--------------------------------------	------------

Supported Monitor Displays (EB-460i/460)	119
Computer signals (analog RGB)	119
Component Video	119
Composite Video/S-Video	119
Supported Monitor Displays (EB-450Wi/450W/440W)	119
Computer signals (analog RGB)	119
Component Video	120
Composite Video/S-Video	120

ESC/VP21 Commands	121
--------------------------	------------

Command List	121
Cable Layouts	122
Serial Connection	122
Communications protocol	122

About PLink	123
--------------------	------------

Specifications	124
-----------------------	------------

Projector General Specifications	124
----------------------------------	-----

Appearance	129
-------------------	------------

Glossary	131
-----------------	------------

General Notes	133
----------------------	------------

Wireless Telegraphy Act Regulations	133
About Notations	133
General Notice	133

Index	151
--------------	------------



Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



Introduction

This chapter explains the projector's features and the part names.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Convenient Equipment Designed for Ease of Use

Easy to handle

- **Easy wall mounting**

The projector is supplied with a dedicated slide plate that makes troublesome wall mounting easy.

The slide plate is integrated into the projector main unit, so mounting is easy and installation time has been reduced compared to previous models.

☛ [Installation Guide](#)

You can also perform maintenance such as replacing the air filter and lamp simply while projector is mounted to a wall.

- **No special screen required**

Installation in a wide range of places is possible because you can project images onto a projection surface such as a wall if there is no projector screen.

- **Short distance projection**

At 47 cm, the recommended shortest projection distance allows you to place the projector close to the screen. ☛ [p.117](#)

If you mount the projector to a wall and project images from diagonally above, you can give your presentation without the shadow of anybody who stands up near the projection surface appearing in the images.

Furthermore, when your back is facing the screen, the projector light does not dazzle you because it does not interfere with your field of view.

- **Direct power on/off**

In places where power is managed centrally, such as in a conference room, you can set the projector to turn on or off when the main power source to which the projector is connected is switched on or off.

- **Display of projection lines on the projection surface**

The pattern function for projecting ruled lines or a grid enables effective use of the projection surface in lessons and presentations.

- **Speaker**

The incorporation of a high-output 10 W speaker enables your voice to reach the edges of the room even in spacious classrooms.

- **Projection screen for WXGA (EB-450Wi/450W/440W only)**

With a computer that has a 16:10 WXGA wide LCD display, the image can be projected in the same aspect. This allows you to effectively use the width of whiteboards and other landscape-oriented projection surfaces.

- **Control the projector from a computer**

You can use the Web Control function and Web Remote function to perform the same operations on a computer as with the projector's control panel or remote control. ☛ [p.63](#)

Enhanced security functions

- **Password Protect to restrict and manage users**

By setting a Password you can restrict who can use the projector.

☛ [p.50](#)

- **Control Panel Lock restricts button operation on the Control panel**

You can use this to prevent people changing projector settings without permission at events, in schools, and so on. ☛ [p.52](#)

- **Equipped with anti-theft security devices**

The projector is equipped with the following types of anti-theft security functions. ☛ [p.53](#)

- Security slot
- Security cable installation point

Controlling Computer on Projection Surface (EB-460i/450Wi Only)

Easy Interactive Function

By simply connecting a computer to the projector, you can control the computer on the projection screen and give an effective, interactive presentation or lesson. ➡ [p.54](#)

Drawing function

You can use a graphics application to import text and diagrams have been hand-drawn on the projection surface with an electronic pen (Easy Interactive Pen). This combines the functions of a whiteboard and screen without the need for either. ➡ [p.54](#)

Selecting Various Input Sources with Multi-Connection

As well as connecting a computer cable, you can select various interfaces such as a USB cable, USB memory, or LAN connection. This allows you to select from a range of input sources to match your usage environment.

Taking full advantage of a network connection

You can make effective use of your network by using the supplied "EPSON Projector Software for Meeting & Monitoring" to perform efficient and varied presentations and meetings. ➡ [EasyMP Network Projection Operation Guide](#)


- **Connect a Computer to the projector via a network**

You can project by connecting to an already constructed network system. You can hold efficient meetings by projecting from multiple computers connected to a network system without having to change any cables.

- **Connecting wirelessly to a computer**

When you install the optional wireless LAN unit in the projector, you can connect wirelessly to a computer. ➡ [p.38](#)

- **Connection method for various networks**

The following methods are available for connecting the projector to a network. Select whichever method suits your environment.  [EasyMP Network Projection Operation Guide](#)

- **Advanced Connection Mode**

Advanced Connection Mode is an infrastructure connection, offering you a method of connecting to an already constructed network.

- **Quick Connection Mode**

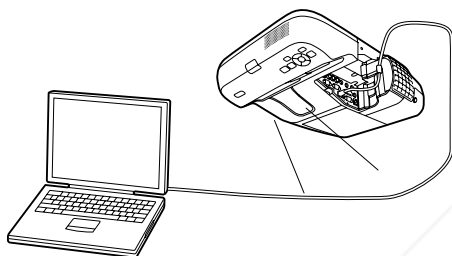
Quick Connection Mode is a connection method that can only be executed when the optional wireless LAN unit is installed.

Quick Connection Mode temporarily allocates the projector's SSID to the computer and makes an ad-hoc connection, and then restores the computer's network settings after disconnecting.

Connecting with a USB cable and projecting (USB Display)

By simply connecting the supplied USB cable to a computer, you can project images from the computer's screen.

 [Quick Start Guide](#) , [p.23](#)



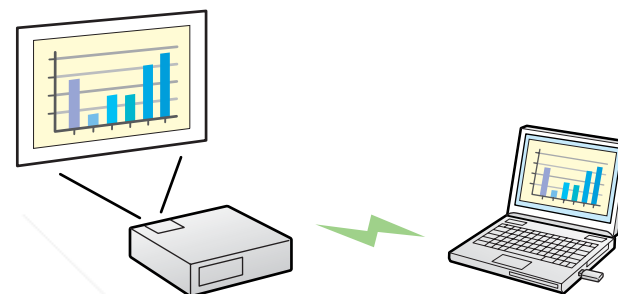
Projecting a computer screen with the optional Quick Wireless Connection USB Key

Using the optional Quick Wireless Connection USB Key, you can quickly connect a computer to the projector for projection.

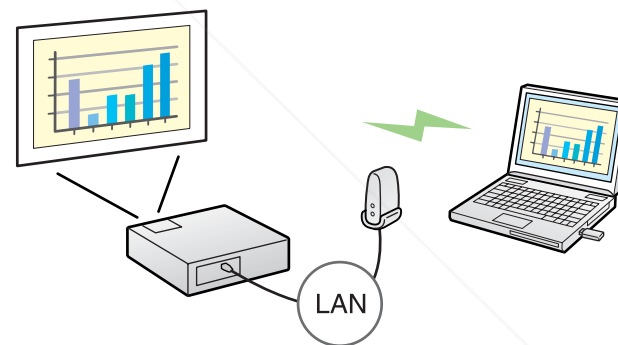
With the Quick Wireless Connection USB Key, you can connect to a projector on a network even if EasyMP Network Projection is not installed.

For example, you can connect under the following environments.

- Connect in Quick Connection Mode using the optional Wireless LAN unit.



- Connect to the network via an access point.



- Connect to the network via a wired LAN connection.



👁 p.116



- This projector is not compatible with the Network Projector function which is a standard feature in Windows Vista and Windows 7.
- Limitations when projecting from Windows Media Center
When Windows Media Center is in full-screen mode, images cannot be projected. Switch to the window display mode to project the images.

Projecting JPEG images without connecting a computer

You can project a slideshow of JPEG images saved on a USB device such as a USB compatible digital camera, hard disk, or USB memory by simply connecting to the projector. 👁 p.28

Enlarge and project your files with the Document Camera

A USB compatible Document Camera is available as an optional extra. With this Document Camera there is no need for a power cable. You can connect easily with one USB cable, and its clean design really simplifies projecting and enlarging your documents. 👁 p.34



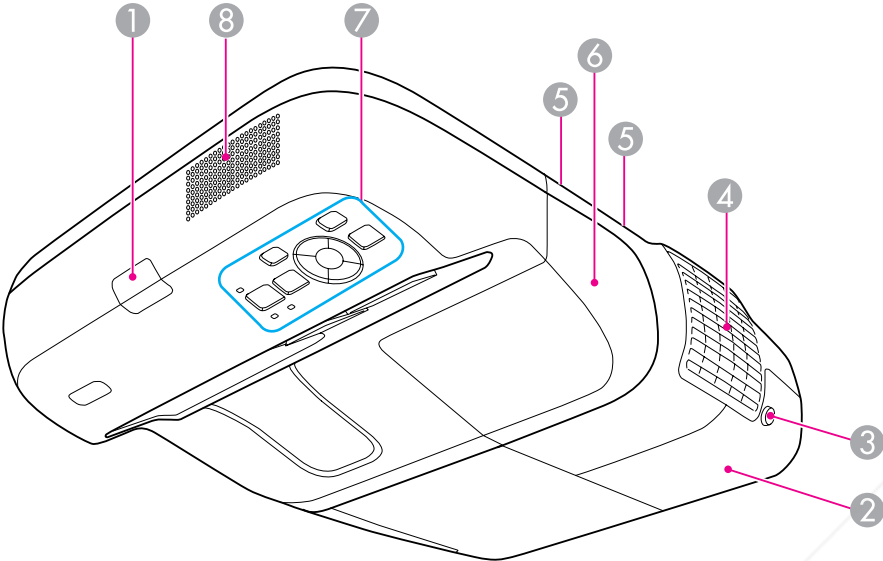
FixYourDLP.com

Sponsored by


Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Front/Top




Name		Function
5	Cable cover fixing screws	Screws to fix the cable cover in place. ☛ Quick Start Guide
6	Cable cover	When connecting to an input port, loosen the two screws and open this cover. ☛ Quick Start Guide
7	Control panel	Allows you to operate and check the status of the projector. ☛ p.15
8	Speaker	Outputs audio for images currently being projected or audio from the Microphone (Mic) input port.

Name		Function
1	Remote Receiver	Receives signals from the remote control. ☛ Quick Start Guide
2	Lamp cover	Open this cover when replacing the projector's Lamp. ☛ p.111
3	Lamp Cover Fixing Screw	Screw to fix the Lamp cover in place. ☛ p.111
4	Air exhaust vent	Exhaust vent for air used to cool the projector internally. <div>Caution Do not place anything that can become warped or damaged by heat near the air exhaust vents, or bring your hands or face close to the vents while projection is in progress.</div>

FixYourDLP.com
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

A detailed line drawing of the front panel of the HP DesignJet Z6800 printer. The panel features a large, rectangular display area on the left, a control panel with several buttons and a small screen on the right, and a large, rectangular slot in the center. Ten numbered callouts (1-10) point to specific features: 1 points to the top left corner of the display; 2 points to the top left button of the control panel; 3 points to the top right button of the control panel; 4 points to the small screen of the control panel; 5 points to the top left corner of the central slot; 6 points to the top right corner of the central slot; 7 points to the top center of the central slot; 8 points to the top center of the central slot; 9 points to the top center of the central slot; 10 points to the top center of the central slot.

 <p>Function</p>			<p>LAN unit. p.53</p>
<p>can be used to lock through here and on place. p.53</p>	<p>⑩ Security slot</p>		<p>The Security slot is Security System m p.53</p>

 **Warning**

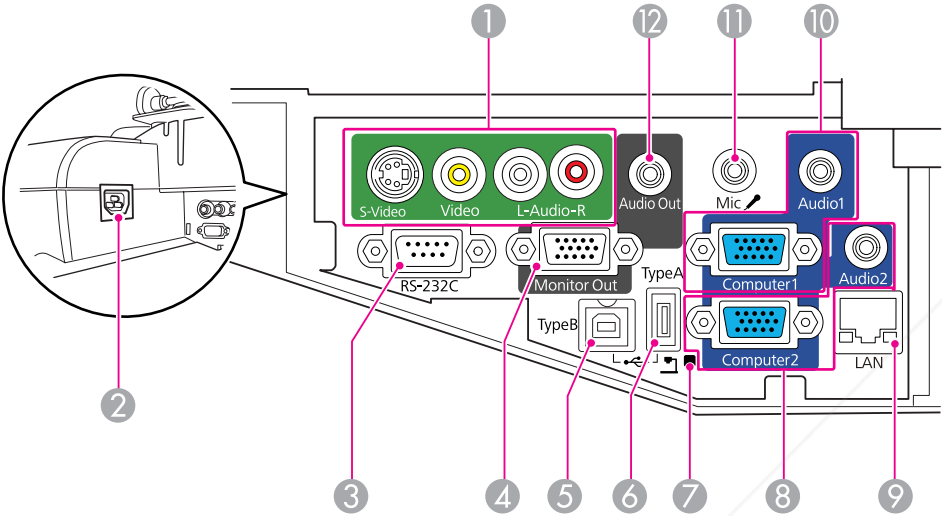
- *Do not look at this during projection.*
- *Do not place objects on or hand nears this. Doing so is dangerous because the focus of projection light results in high temperatures.*

Interfaces

Remove the cable cover to view the following ports.

Remove the cable cover to connect equipment.

☞ Quick Start Guide



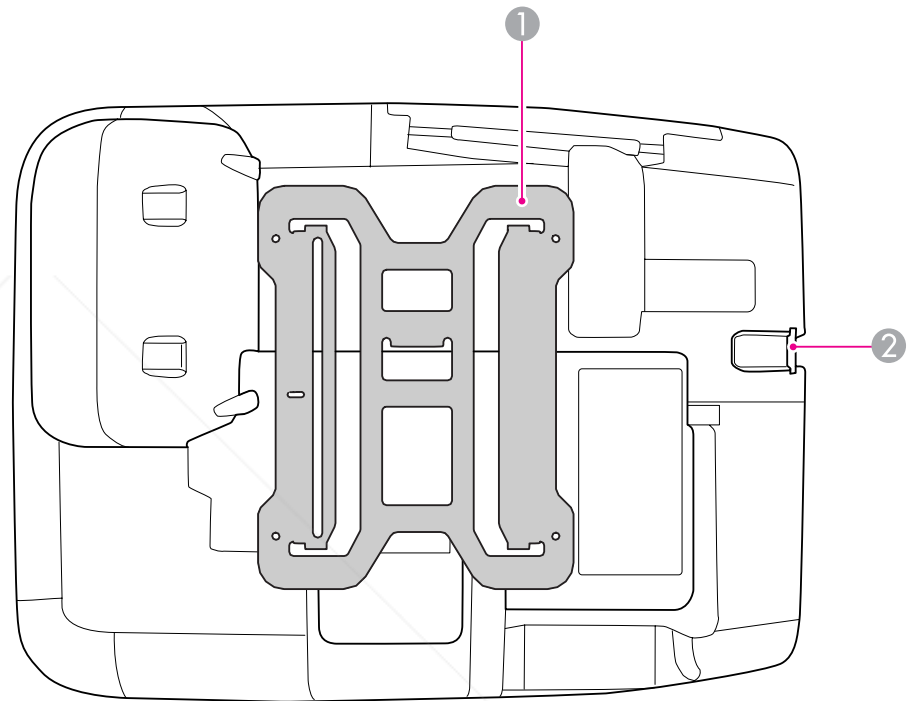
Name	Function
1 S-Video input port	For S-video signals from video sources.
Video input port	For composite video signals from video sources.
Audio-L/R input port	Connects to the audio output port to output audio from equipment connected to the S-Video input port or the Video input port. ☞ Quick Start Guide
2 Power inlet	Connects to the power cable. ☞ Quick Start Guide

Name	Function
3 RS-232C port	When controlling the projector from a computer, connect it to the computer with an RS-232C cable. This port is for control use and should not normally be used. ☞ p.122
4 Monitor Output (Monitor Out) port	Outputs the image signals from the computer connected to the Computer1 input port to an external monitor. This is not available for component video signals or other signals being input to any port other than the Computer1 input port. ☞ p.35
5 USB(TypeB) port	Connects the projector to a computer via the supplied USB cable to project images from the computer. ☞ p.23 Also use this port to connect to a computer via the supplied USB cable to use the wireless mouse function. ☞ p.48 Also use this port to connect to a computer via the supplied USB cable to use the Easy Interactive Function. (EB-460i/450Wi only) ☞ p.54
6 USB(TypeA) port	Projects a JPEG image Slideshow when memories or digital cameras are connected to the USB compatible port. ☞ p.28 Also connects to the optional Document Camera.
7 USB indicator	Notifies you of the status of the USB device connected to the USB(TypeA) port as described below. OFF: USB device is not connected Orange Light ON: USB device is connected Green Light ON: USB device is operating Red Light ON: Error

Name	Function
8 Computer2 input port Audio2 port	<p>Inputs image signals from a computer and component video signals from other video sources.</p> <p>Connects to the audio output port of equipment connected to the Computer2 input port to input audio. Also, when the input source is one of the following and you want to output audio from the projector, connect the audio source to the Audio2 port.</p> <ul style="list-style-type: none"> - USB: When playing back a slideshow from a USB storage device connected to the USB(TypeA) port, or when projecting from the optional Document Camera - USB Display - LAN <p>🔗 Quick Start Guide</p>
9 LAN port	<p>Connects to a LAN cable and then to a network.</p> <p>🔗 p.37</p>
10 Computer1 input port Audio1 port	<p>Inputs image signals from a computer and component video signals from other video sources.</p> <p>Connects to the audio output port of equipment connected to the Computer1 input port to input audio.</p> <p>🔗 Quick Start Guide</p>
11 Microphone (Mic) input port	<p>Connects to a microphone. 🔗 p.36</p>
12 Audio Output (Audio Out) port	<p>Outputs the audio of the images currently being projected or the audio input from the Microphone (Mic) input port to an external speaker. 🔗 p.36</p>

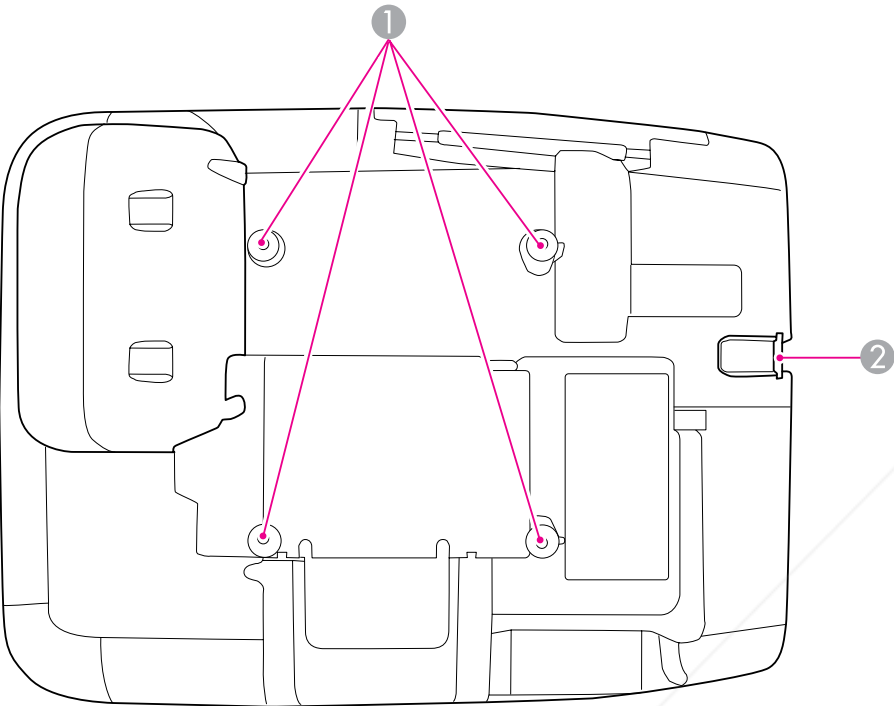
Base (with Slide Plate)

A slide plate is attached to the projector main unit at the time of shipment.



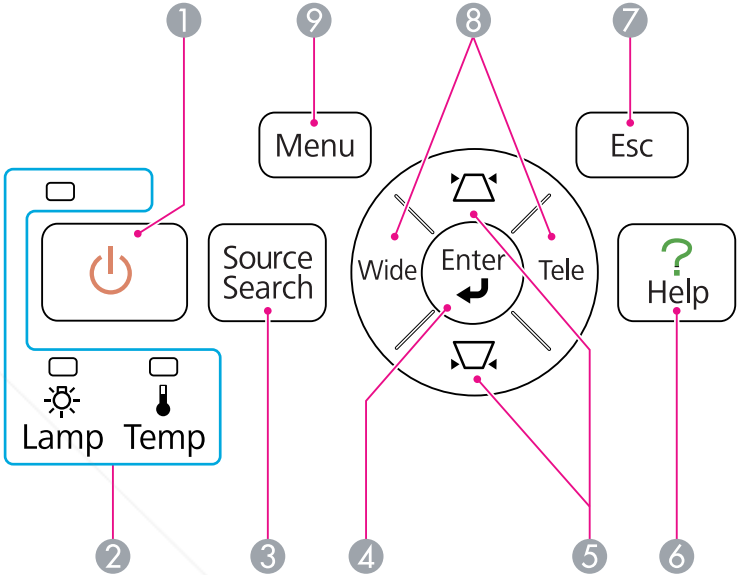
Name	Function
1 Slide plate	<p>Connect this to the setting plate when mounting the projector on a wall. 🔗 Installation Guide</p>
2 Security cable installation point	<p>Pass a commercially available wire lock through here and lock it in place. 🔗 p.53</p>

Base (without Slide Plate)



Name		Function
1	Ceiling mount fixing points (four points)	Connect the ceiling mount fixing points to a commercially available ceiling mount or wall mount when mounting the projector to a ceiling or wall. For details, see the documentation supplied with the the ceiling mount or wall mount.
2	Security cable installation point	Pass a commercially available wire lock through here and lock it in place.

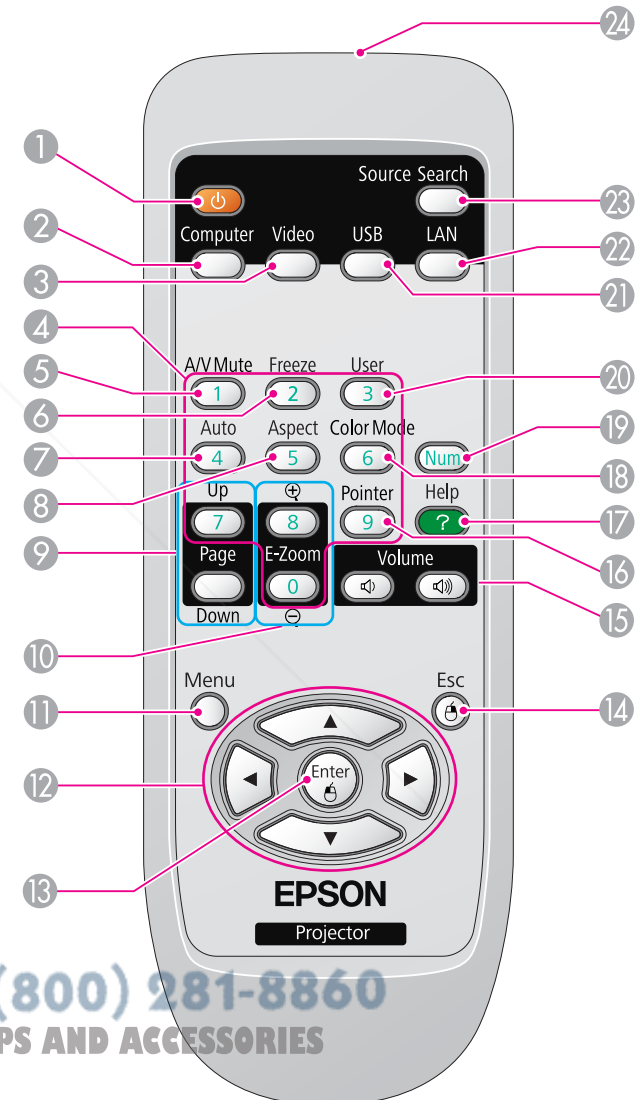
Control panel




Name		Function
1	[Power] button	Turns the projector power on or off. ☛ Quick Start Guide
2	Status indicators	The color of the indicators and whether they are flashing or lit indicate the status of the projector. ☛ p.94
3	[Source Search] button	Changes to the next input source that is connected to the projector and is sending an image. ☛ p.21
4	[Enter] button	If pressed during projection of a computer image signal, it automatically adjusts the Tracking-Sync., and Position to project the optimum image. When the Configuration Menu or Help screen is displayed, pressing this button confirms the current item and moves to the next level. ☛ p.73





Name	Function
5 [↵][↵] buttons	<p>Corrects Keystone distortion. In the following cases, however, these buttons function as the [▲] and [▼] buttons.</p> <ul style="list-style-type: none"> – When the projected image is being sent through a Network connection – When the Slideshow function is being used for projection <p>If pressed when a Configuration Menu or Help screen is displayed, these buttons selects menu items and setting values.</p> <p>☛ <i>Quick Start Guide</i> , p.73</p>
6 [Help] button	<p>Displays and closes the Help screen which shows you how to deal with problems if they occur. ☛ p.93</p>
7 [Esc] button	<p>Stops the current function.</p> <p>When the Configuration Menu is displayed, pressing this button moves to the previous menu level. ☛ p.73</p>
8 [Wide][Tele] button	<p>Adjusts Tele/Wide. Press the [Tele] button to reduce the size of the projection screen and press the [Wide] button to increase the size of the projection screen.</p> <p>When the Configuration Menu or Help screen is displayed, these buttons function as the [◀][▶] buttons, which select menu items and setting values.</p> <p>☛ <i>Quick Start Guide</i></p>
9 [Menu] button	<p>Displays and closes the Configuration Menu.</p> <p>☛ p.73</p>

Remote Control

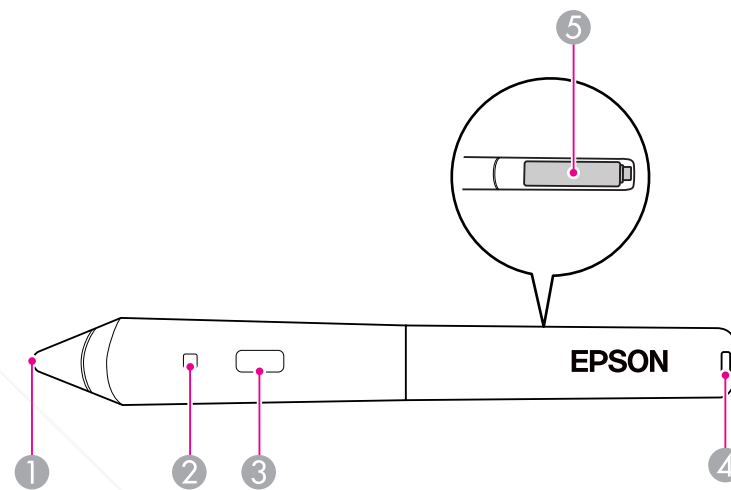




Name	Function
① [⏻] button	Turns the projector power on or off. ☞ Quick Start Guide
② [Computer] button	Each time you press the button, input changes between images from the Computer1 input port and the Computer2 input port. ☞ p.22
③ [Video] button	Each time you press the button, input changes between images from the Video input port and the S-Video input port. ☞ p.22
④ Numeric buttons	Use when entering a password. ☞ p.50
⑤ [A/V Mute] button	Turns the video and audio on or off. ☞ p.40
⑥ [Freeze] button	Images are paused or unpaused. ☞ p.41
⑦ [Auto] button	If pressed during projection of a computer image signal, it automatically adjusts the Tracking-Sync., and Position to project the optimum image.
⑧ [Aspect] button	The Aspect Ratio changes each time the button is pressed. ☞ p.41
⑨ [Page] buttons ([Up]) ([Down])	When you are using the Wireless Mouse function, USB Display function, or the input source is projecting a file of application software that supports page up/down via the LAN, you can move the page up and down by pressing these buttons. ☞ p.48
⑩ [E-Zoom] buttons (⊕)(⊖)	Enlarges or reduces the image without changing the projection size. ☞ p.47
⑪ [Menu] button	Displays and closes the Configuration Menu. ☞ p.73
⑫ [⏮][⏭] buttons [⏪][⏩] buttons	When the Configuration Menu or Help screen is displayed, pressing these buttons selects menu items and setting values. ☞ p.73 , p.93 During Wireless Mouse function, the mouse pointer moves in the direction the button is pushed. ☞ p.48

Name	Function
⑬ [Enter] button	When the Configuration Menu or Help screen is displayed, pressing this button confirms the current item and moves to the next level. ☞ p.73 , p.93 Acts as a mouse's left button when using the Wireless Mouse function. ☞ p.48
⑭ [Esc] button	Stops the current function. If pressed when the Configuration Menu is displayed, it moves to the previous level. ☞ p.73 , p.93 Acts as a mouse's right button when using the Wireless Mouse function. ☞ p.48
⑮ [Volume] buttons (◀) (▶)	(◀) Decreases the Volume. (▶) Increases the Volume. ☞ Quick Start Guide <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> Caution Do not start when the volume is set too high. A sudden excessive volume may cause loss of hearing. Always lower the volume before turning the power off, and gradually increase the volume after turning the power on.</div>
⑯ [Pointer] button	Press this button to activate the on-screen pointer. ☞ p.46
⑰ [Help] button	Displays and closes the Help screen which shows you how to deal with problems if they occur. ☞ p.93
⑱ [Color Mode] button	Each time the button is pressed, the Color Mode changes. ☞ p.39
⑲ [Num] button	Use when entering a Password. ☞ p.50

Name	Function
20 [User] button	Select any frequently used item from the five available Configuration Menu items, and assign it to this button. By pressing the button the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments.  p.76 The menu Power Consumption is assigned as the default setting.
21 [USB] button	Each time you press the button, input changes between images from the equipment connected to USB Display and USB(TypeA) port.  p.22
22 [LAN] button	Changes to the images projected with EasyMP Network Projection. When you are projecting via Quick Wireless Connection using the optional Quick Wireless Connection USB Key, pressing this button changes to that image.  p.22
23 [Search] button	Changes to the next input source that is connected to the projector and is sending an image.  p.21
24 Remote control light-emitting area	Outputs remote control signals.

Easy Interactive Pen(EB-460i/450Wi Only)



Name	Function
1 Pen tip switch	Functions as the left button of a mouse.
2 Battery indicator	When you press the button, this indicator lights green if there is any remaining battery power. It does not light if there is not much remaining battery power. If this happens, replace the batteries.  p.61
3 Button	Functions as the right button of a mouse.
4 Strap attachment hole	You can attach a commercially available strap.
5 Battery cover	Open this cover when replacing the batteries.  p.61



Various Ways to Use the Projector

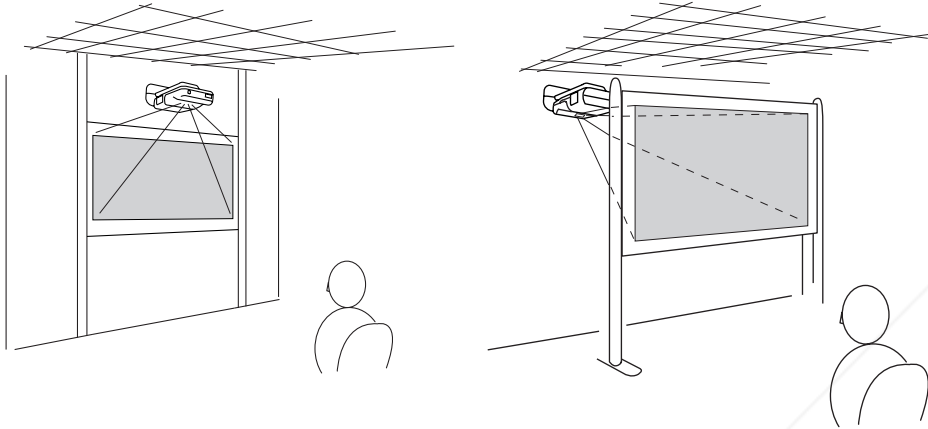
This chapter explains useful functions for giving presentations, connecting external equipment, and security functions.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

The projector supports the following two different projection methods.
Install according to the conditions of the installation location.

- Suspend the projector from the ceiling and project images from in front of the screen. (Front/Ceiling projection)
- Suspend the projector from the ceiling and project images from behind a translucent screen. (Rear/Ceiling projection)



At the time of shipment, the projector is set to be installed suspended from a ceiling and to project images from the front of the screen (Front/Ceiling).



Set either **Front/Ceiling** or **Rear/Ceiling** setting from the Configuration Menu. ➡ [p.78](#)



FixYourDLP.com

Sponsored by 

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

You can change the projected image in the following two ways.

- Changing by Source Search

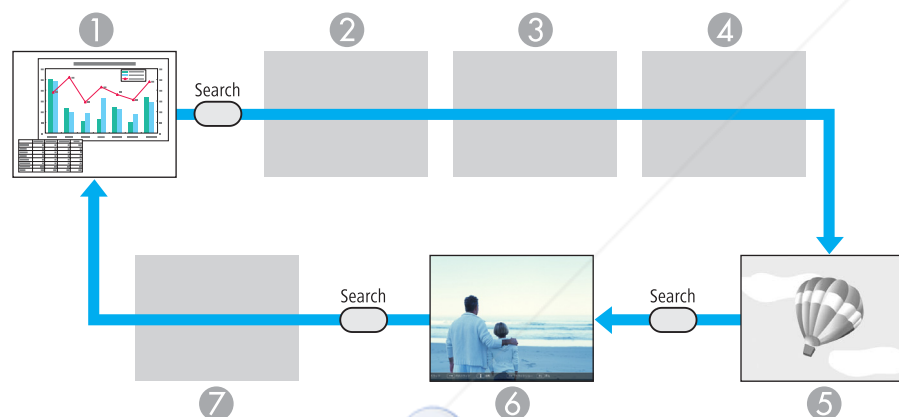
The projector automatically detects signals being input from connected equipment, and the image being input from the equipment is projected.

- Changes to the target image.

You can use the Remote Control buttons to change to the target input port.

Automatically Detect Input Signal and Change the Projected Image (Source Search)

You can project the target image quickly as input ports with no image signal being input are ignored when you change by pressing the [Source Search] button.



- ① Computer1
- ② Computer2
- ③ S-Video
- ④ Video
- ⑤ USB Display

⑥ USB*: When the image is from a device connected to the USB(TypeA) port.

⑦ LAN: When the projector is connected to a computer via a network, and images from EasyMP Network Projection are projected.

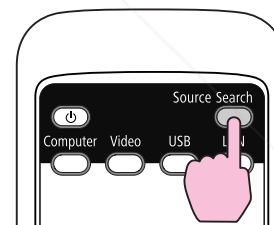
Skipped when no image signal is being input.

*USB input source indicates that a Slideshow is being played back from a USB storage device connected to the USB(TypeA) port, or that images are being projected from the optional Document Camera.

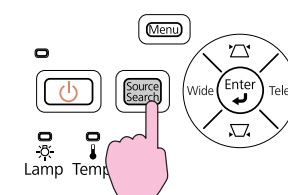
Procedure

When your video equipment is connected, start playback before beginning this operation.

Using the Remote Control



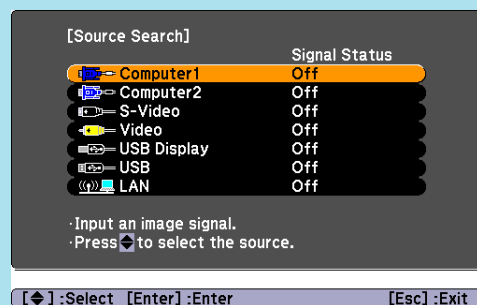
Using the Control panel



When two or more pieces of equipment are connected, press the [Source Search] button until the target image is projected.



The following screen showing the status of image signals is displayed when only the image that the projector is currently displaying is available, or when no image signal can be found. You can select the input port where the equipment you want to use is connected. If no operation is performed after about 10 seconds, the screen closes.

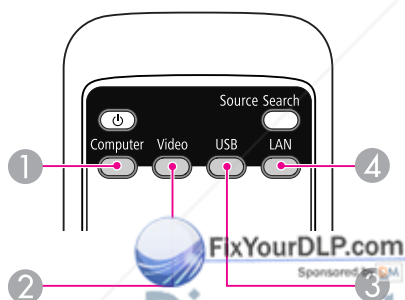


- ③ Each time you press the button, input changes between images from the equipment connected to USB Display and USB(TypeA) port.
- ④ Changes to the images projected with EasyMP Network Projection. When you are projecting via Quick Wireless Connection using the optional Quick Wireless Connection USB Key, this button changes to that image.

Switch to the target image by Remote Control

You can change directly to the target image by pressing the following buttons on the Remote Control.

Remote Control



- ① Each time you press the button, input changes between images from the Computer1 input port and the Computer2 input port.
- ② Each time you press the button, input changes between images from the Video input port and the S-Video input port.

Discount-Merchant.com (800) 281-8860

THE DISCOUNT SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES


You can use the supplied USB cable to connect the projector to a computer to project images from the computer. This function is called USB Display. Simply by connecting via a USB cable, images from the computer can be displayed.

To activate the USB Display function, set USB Type B to USB Display from the Extended menu in the Configuration Menu.

The following shows the default settings for USB Type B.

- EB-460i/450Wi: Off
- EB-460/450W/440W: USB Display

For EB-460i/450Wi, the setting needs to be changed in advance.

 [p.78](#)

System Requirements

For Windows

OS	Windows 2000 Service Pack 4 Windows XP Windows XP Service Pack 2 or later Windows Vista Windows Vista Service Pack 1 or later Windows 7
CPU	Mobile Pentium III 1.2GHz or faster Recommended: Pentium M 1.6GHz or faster
Amount of Memory	256MB or more Recommended: 512MB or more
Hard Disk Free Space	20MB or more

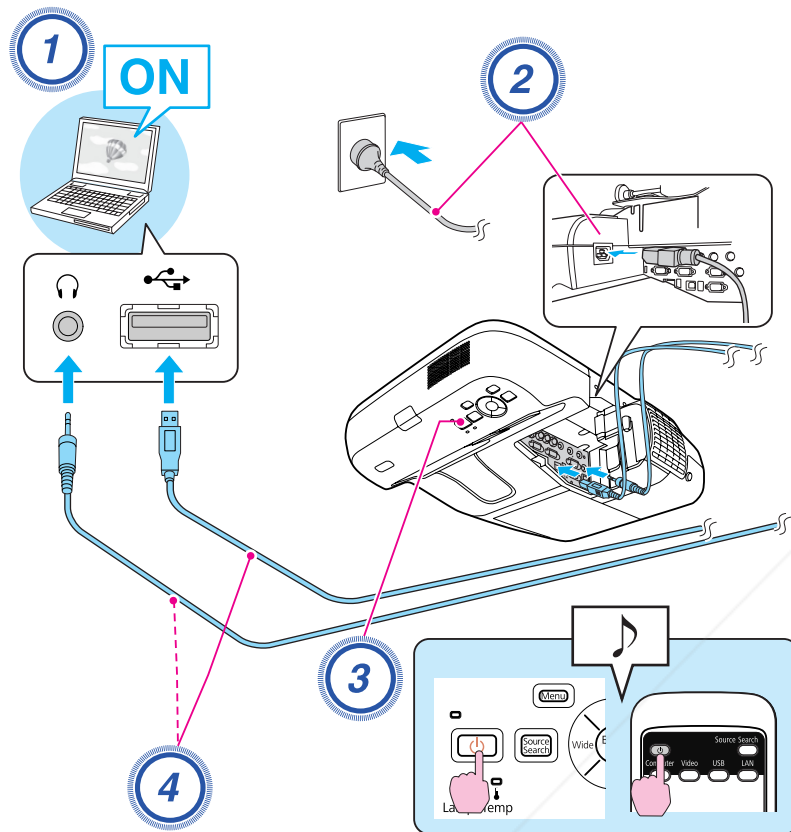
Display	Resolution of no lower than 640x480 and no higher than 1600x1200. Display color of 16-bit color or greater
---------	---

Only 32-bit versions are supported.

For Mac OS

OS	Mac OS X 10.5.1 or later Mac OS X 10.6.x
CPU	Power PC G4 1GHz or faster Recommended: Intel Core Duo 1.83GHz or faster
Amount of Memory	512MB or more
Hard Disk Free space	20MB or more
Display	Resolution of no lower than 640x480 and no higher than 1680x1200. Display color of 16-bit color or greater

Connecting



Procedure

- 1 Turn the computer on.
- 2 Connect to the power cable (supplied).
- 3 Turn the projector on.

4

Connect to the USB cable.

When outputting audio from the projector's speaker, connect an audio cable (commercially available) to the Audio2 port.

☛ "Connecting for the first time" [p.24](#)

☛ "From the second time" [p.27](#)

Attention

Connect the projector directly to the computer and not via a USB hub.

Connecting for the first time

The first time you connect, the driver needs to be installed. The procedure is different for Windows and Mac OS.

Procedure

For Windows

1

Driver installation starts automatically.

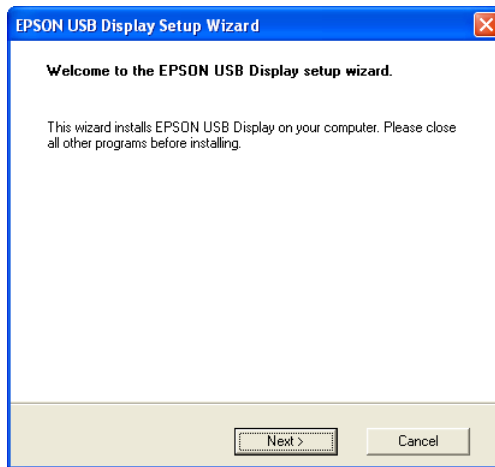
When you are using Windows 2000, double-click **My Computer** - EPSON_PJ_UD - EMP_UDSE.exe on your computer.



FixYourDLP.com
Sponsored by DLP

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



When using a computer running Windows 2000 under user authority, a Windows error message is displayed during installation and you may not be able to install the software. In this case, try updating Windows to the latest version, restart, and then try to connect again.

For more details, contact the nearest address provided in the Support and Service Guide.  [Epson Projector Contact List](#)

2

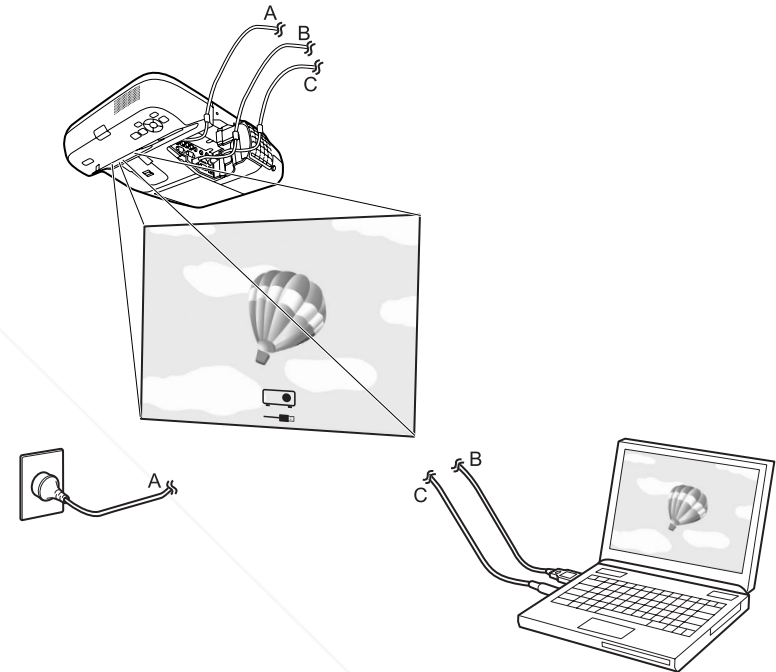
When the License Agreement screen is displayed, click "Agree".

If the driver is not installed, you cannot start USB Display. Select **Agree** to install the driver. If you want to cancel installation, click **Disagree**.

**3**

Computer images are projected.

It may take a while before computer images are projected. Until computer images are projected, leave the equipment as it is and do not disconnect the USB cable or turn off the power to the projector.





- If it is not installed automatically, double-click **My Computer** - **EPSON_PJ_UD** - **EMP_UDSE.EXE**, on your computer.
- If nothing is projected for some reason, click **All Programs** - **EPSON Projector** - **EPSON USB Display** - **EPSON USB Display Vx.x** on your computer.
- If the mouse pointer flickers on the computer screen, click **All Programs** - **EPSON Projector** - **EPSON USB Display** - **EPSON USB Display Vx.x** on your computer, and then clear the **Transfer layered window** checkbox.
- To uninstall the driver, open **Control Panel** - **Add/Remove Programs** - and uninstall **EPSON USB Display Vx.x**.
- Disconnecting
The projector can be disconnected simply by disconnecting the USB cable. There is no need to use the **Safely Remove Hardware** feature in Windows.

When connecting next time, see 🖱️ "From the second time" [p.27](#).

For Mac OS

1 The setup folder of USB Display is displayed in the Finder.

2 Double-click the **UD_Installer** icon.

Enter the administrator authority password and start the installation.

3 Follow the on-screen instructions to install.

4 When the License Agreement screen is displayed, click **"Agree"**.

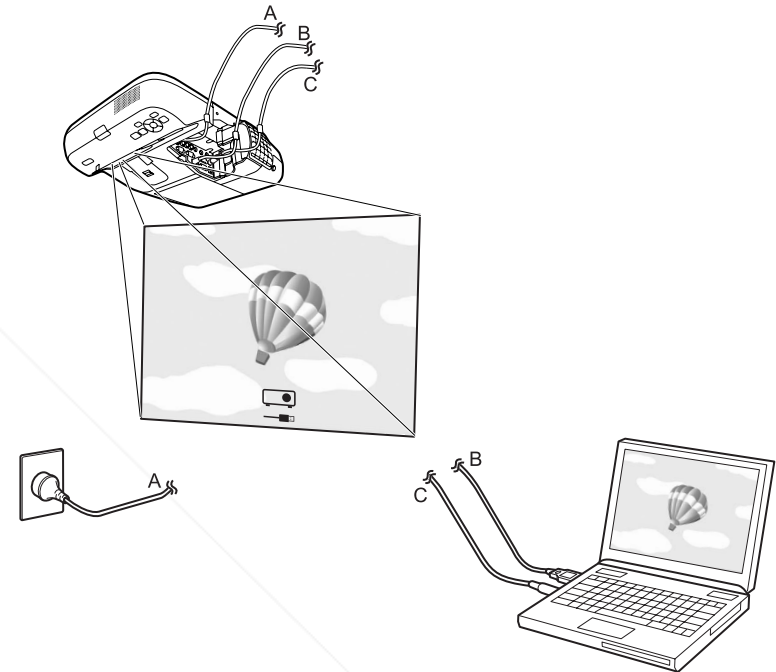
If you do not select **Agree**, USB Display cannot be started. If you want to cancel projection, click **Disagree**.

When the installation is complete, the USB Display icon is displayed in the Dock and menu bar.

5

Computer images are projected.

It may take a while for computer images to be projected. Until the computer images are projected, leave the equipment as is and do not disconnect the USB cable or turn off the power of the projector.



- If the USB Display setup folder is not displayed automatically in the Finder, double-click **EPSON PJ_UD** - **UD_Installer** on your computer.
- If nothing is projected for some reason, click the **USB Display** icon in the Dock.
- If there is no **USB Display** icon in the Dock, start **USB Display V.x.x** from the Applications folder.
- To uninstall the driver, start **Remove USB Display V.x.x** in the Tool folder of the Applications folder.

Attention

- To disconnect USB Display, click the menu bar icon or Dock icon, select **Disconnect** from the menu that is displayed, and then remove the USB cable.
- If you select **Exit** from the Dock icon menu, USB Display does not start automatically when you connect the USB cable.

From the second time

Computer images are projected.

It may take a while before computer images are projected. Please wait.



For Windows

- Applications that use part of DirectX functions may not be displayed correctly.
- Disconnecting
The projector can be disconnected simply by disconnecting the USB cable. There is no need to use the **Safely Remove Hardware** feature.
- Limitations when projecting from Windows Media Center
When Windows Media Center is in full-screen mode, images cannot be projected. Switch to the window display mode to project the images.

For Mac OS

If images are not projected, start **USB Display V.x.x** from the Applications folder.



FixYourDLP.com

Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Files that can be Projected Using Slideshow

You can use Slideshow to directly project files stored in a USB storage device or digital camera connected to the projector.



You may not be able to use USB storage devices that incorporate security functions.

Specifications for files that can be projected using Slideshow

Type	File Type (Ex-tension)	Notes
Still image	.jpg	<p>The following cannot be projected.</p> <ul style="list-style-type: none"> - CMYK color mode format - Progressive format - Images with a resolution greater than 4608x3072 - Files with the extension ".jpeg" <p>Due to the characteristics of JPEG files, images may not be projected clearly if the compression ratio is too high.</p>



- When using a USB hard disk, we recommend using an AC adapter power supply.
- The projector does not support some file systems, so use media that has been formatted in Windows.
- Format the media in FAT16/32.

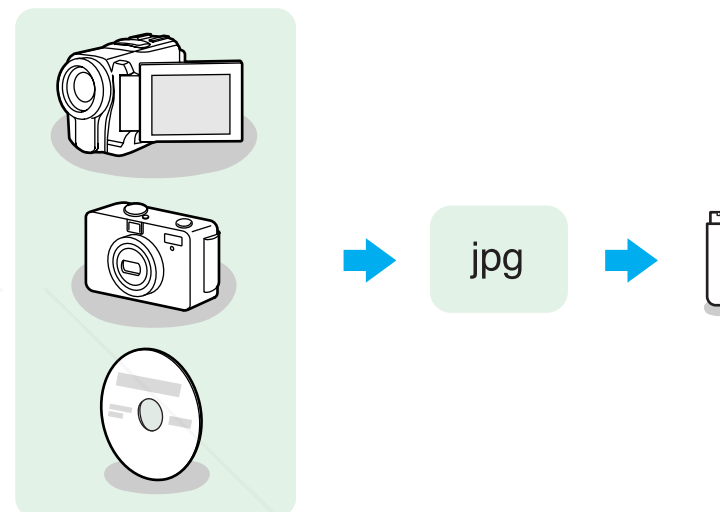


FixYourDLP.com
Sponsored by

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Slideshow usage examples

Projecting images stored on USB storage and other media



Example 1: Prepare multiple images and project them continuously (Slideshow) ➡ [p.32](#)

Example 2: Select and project image files one at a time ➡ [p.31](#)

Slideshow Basic Operations

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 **Change the projected image to USB.**
 p.21
- 2 **Connect the USB storage device or digital camera to the projector.**
 p.34

Slideshow starts and the file list screen is displayed.

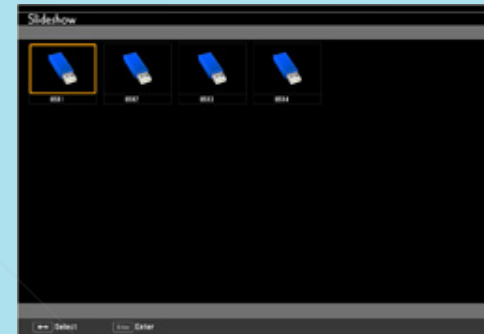
Closing Slideshow

Procedure

To close Slideshow, disconnect the USB device from the USB(TypeA) port on the projector. For a digital camera, hard disk, or other equipment, turn off the power of the equipment and then disconnect the equipment.



- You can also insert a memory card into a USB card reader and then connect the reader to the projector. However, some commercially available card readers may not be compatible with the projector.
- When the following screen (Select drive screen) is displayed, use 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** at the top of the file list screen, and then press the [Enter] button.

Slideshow basic operations

The following describes the procedures for playing and projecting images using Slideshow.

Procedure

- 1 Use the [◀][▶][◀][▶] buttons to position the cursor on the target file or folder.



① Cursor

- JPEG files are displayed as thumbnails (file content is 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 screen, 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 the [Enter] button.

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 images

You can rotate the played images in JPEG format in 90° increments. You can also rotate JPEG format images during Slideshow.

Rotate JPEG images in the following way.

Procedure



①

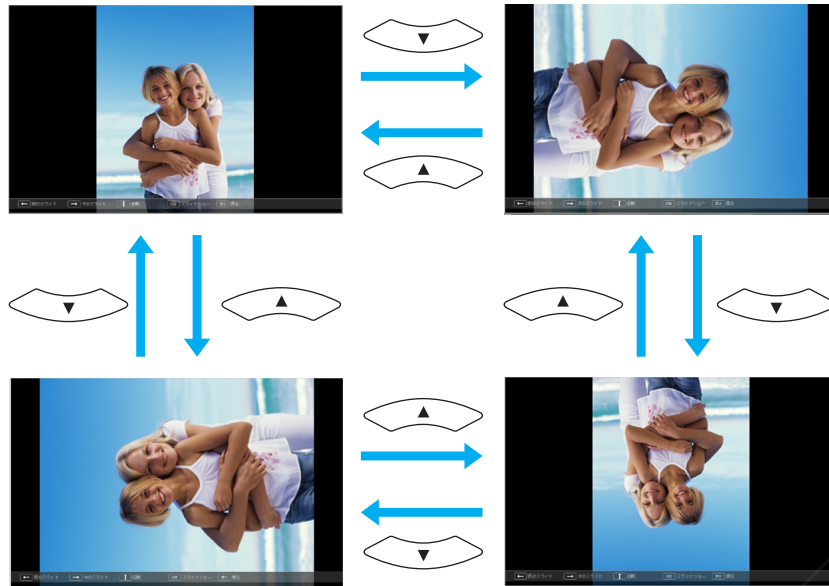
Play images in JPEG format, or run Slideshow.

To play images in JPEG format  [p.31](#)

To run Slideshow  [p.32](#)

②

When a JPEG image is displayed, press the [] button or the [] button.



Projecting Image Files

Image files on USB storage and image files on a digital camera can be projected using Slideshow in either of the following two ways.

- Projecting selected image files
This is a function for projecting the content of a single file.
- Projecting all image files in a folder in sequence (Slideshow)
This is a function for projecting the content of 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.



FixYourDLP.com






Sponsored by

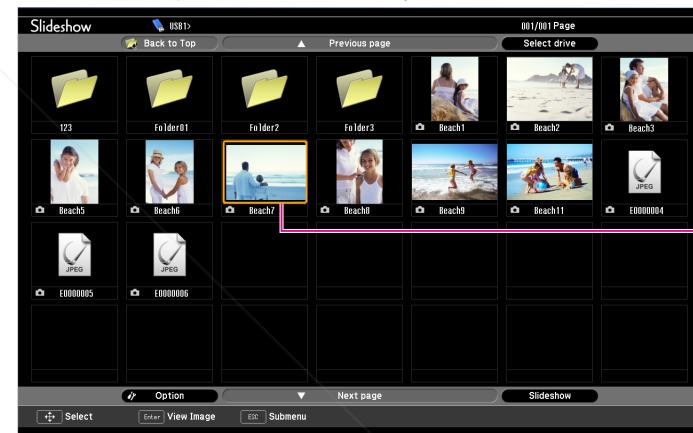
Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Projecting images

Procedure

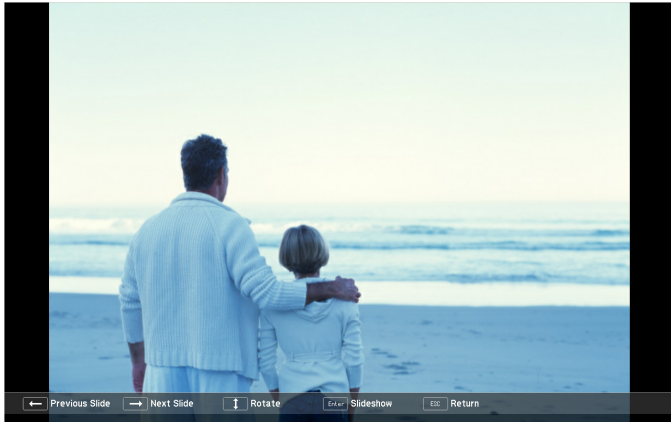
- 1 **Start Slideshow.**  **p.29**
The file list screen is displayed.
- 2 Use the [] [] [] [] buttons to position the cursor on the image file to be projected.



① Image file

- 3 **Press the [Enter] button.**
The image starts to play back.

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



- 4 Press the [Esc] 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. Use the following procedure to run Slideshow.



To change files automatically when you run Slideshow, set **Screen switching time** from **Option** in Slideshow to anything other than **No**. The default setting is **3 seconds**. ➡ "Image File Display Settings and Slideshow Operation Settings" p.33

Procedure

- 1 **Start Slideshow.** ➡ p.29
The file list screen is displayed.
- 2 Use the [◀] [▶] [⏮] [⏭] buttons to position the cursor on the folder to be played by Slideshow and press the [Enter] button.
- 3 **Select Slideshow from the the bottom of the file list screen, and then press the [Enter] button.**
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** from the Option screen, projection starts again from the beginning when it reaches the end. ➡ "Image File Display Settings and Slideshow Operation Settings" p.33
You can proceed to the next screen, return to the previous screen, or stop playback while projecting a Slideshow.



If **Screen switching time** on the **Option** screen is set to **No**, files do not change automatically when you select Play Slideshow. Press the [Enter] button or the [Page] (Down) button on the remote control to project the next file.



FixYourDLP.com
Sponsored by DLP

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Image File Display Settings and Slideshow Operation Settings

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

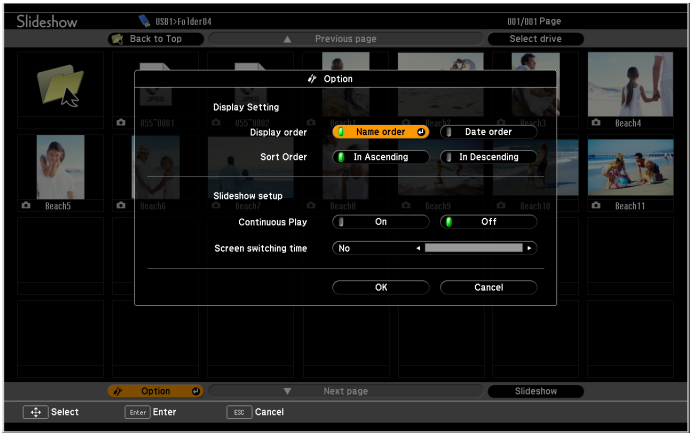
Although the following steps are explained based on the remote control, you can perform the same operations from the projector's control panel.

Procedure

1 Use the [Up] [Down] [Left] [Right] buttons to position the cursor on the folder for which you want to set display conditions and press the [Esc] button. Select "Option" from the sub-menu that is displayed, and then press the [Enter] button.

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

Position the cursor on the setting of the item you want to change and press the [Enter] button to enable the setting.
The following table shows the details of each item.



Display order	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	Set whether to repeat the Slideshow.
Screen switching time	Set the time to display one file when playing a Slideshow. You can set No or a time from (0) to 60 seconds. When you set No, auto play is disabled.

3 Use the [Up] [Down] [Left] [Right] buttons to position the cursor on "OK" and press the [Enter] button.

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

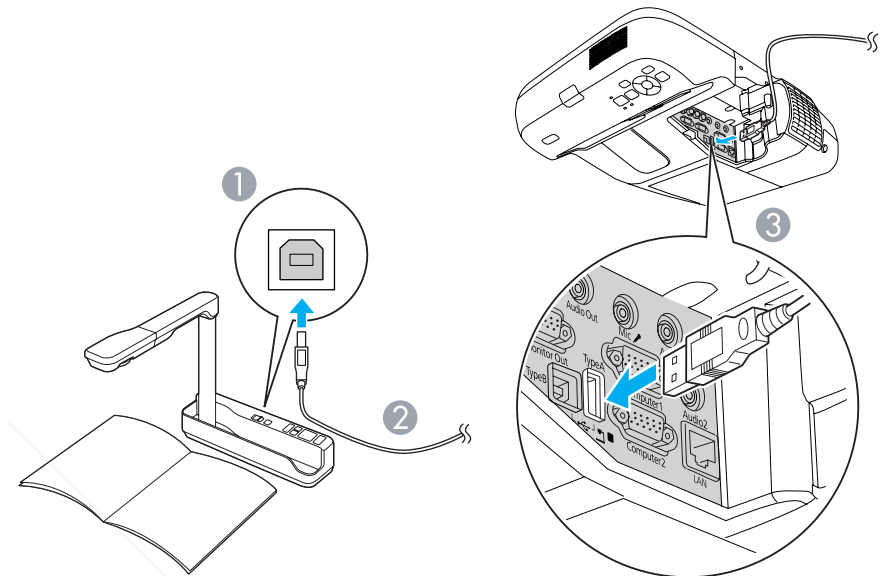
Connecting and Removing USB Devices

USB memories and USB compatible digital cameras, hard disk drives, and the optional Document Camera can be connected to the projector. Image files on a connected digital camera or JPEG files on a connected USB storage device can be played back as a Slideshow. 🗨 "Presentations Using Slideshow" [p.28](#)

When the optional Document Camera is connected, images from the Document Camera will be projected.

Connecting USB devices

This section describes how to connect USB devices, using the optional Document Camera as an example. Connect the Document Camera to the projector using the USB cable supplied with the Document Camera. When the Document Camera is connected to the projector during projection, press the [USB] button on the remote control or the [Source Search] button on the control panel to switch to images from the Document Camera. 🗨 [p.21](#)



- ① To Document Camera USB port
- ② USB cable
- ③ USB(TypeA) port

Attention

- If you use a USB hub, operation may not be performed correctly. Connect a digital camera or USB storage device directly to the projector.
- When connecting and using a USB-compatible hard disk, make sure you connect the AC adaptor supplied with the hard disk.
- Connect a digital camera or hard disk to the projector using the USB cable supplied with or specified for use with the equipment.

Removing USB devices

After projection is finished, use the following procedure to remove the USB device from the projector.

Procedure

Disconnect the optional Document Camera from the projector's USB(TypeA) port.

For digital cameras, hard disks, and so on, turn off the power to the device and then remove.

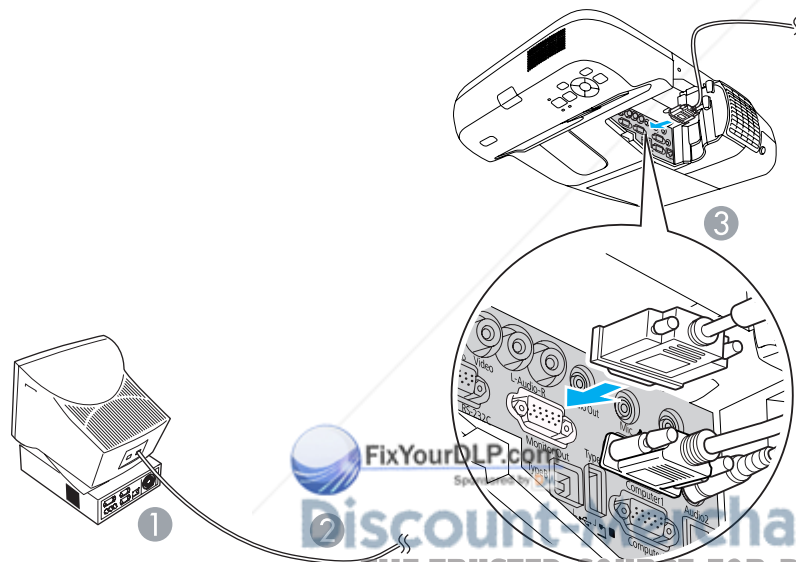
③ To Monitor Output (Monitor Out) Port



- You cannot display component video signals or images from equipment connected to the Video input port or S-Video input port on an external monitor.
- Setting gauges for functions such as Keystone, Configuration Menu, or Help screens are not output to the external monitor.

Connecting an External Monitor

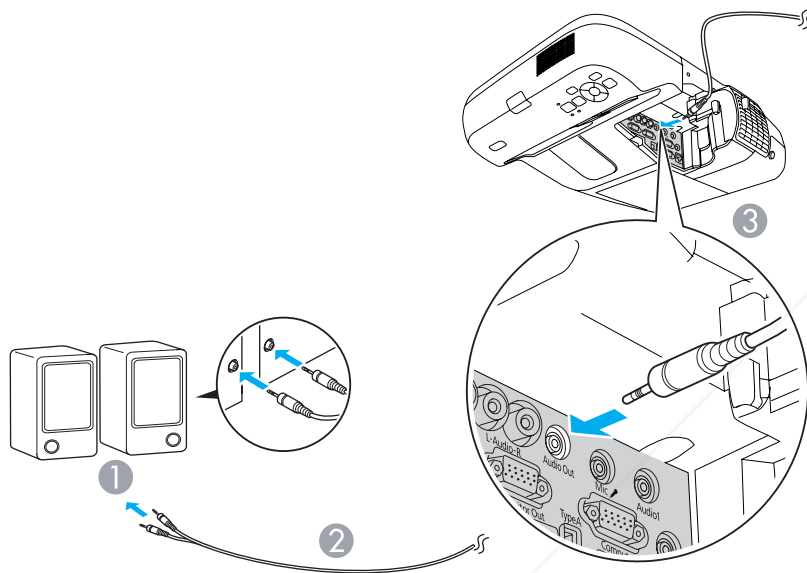
You can display computer images input from Computer1 input port on an external monitor and the screen connected to the projector at the same time. This means that you can check projected images on an external monitor when giving presentations even if you cannot see the screen. Connect using the cable supplied with the external monitor.



- ① To Monitor port
- ② Cable supplied with monitor

Connecting External Speakers

You can connect external speakers with built-in amplifiers to the projector's Audio Output (Audio out) port to enjoy better sound quality. Connect with a commercially available audio cable (such as pin plug ↔ 3.5 mm stereo mini plug). Use an audio cable compatible with the connector on the external speakers.



- ① To external audio equipment
- ② Audio cable (commercially available)
- ③ To Audio Output (Audio Out) port

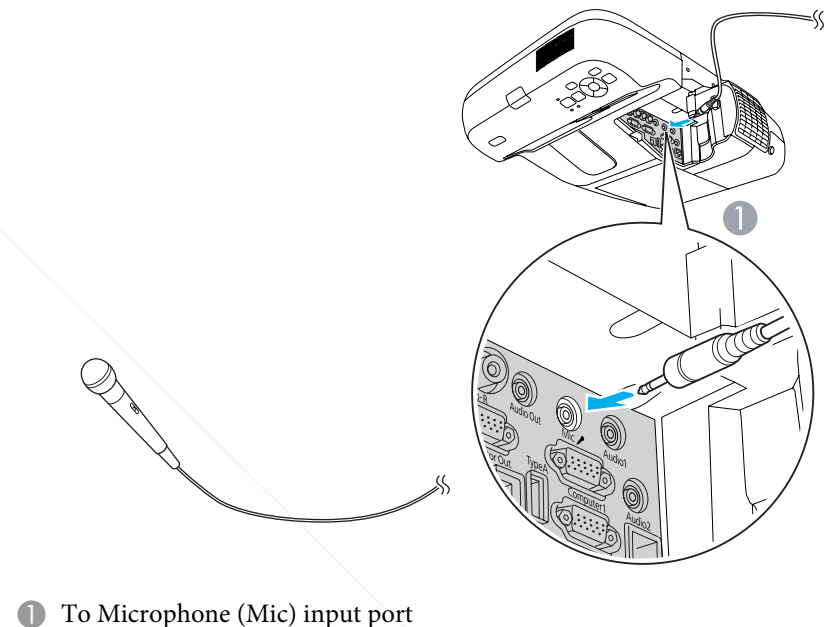
FixYourDLP.com
Sponsored by DLP



- When the audio cable jack is inserted into the Audio Output (Audio Out) port, audio stops being output from the projector's built-in speakers and switches to external output.
- When using a commercially available 2RCA(L/R)/stereo mini-pin audio cable, make sure it is labeled "No resistance".

Connecting a microphone

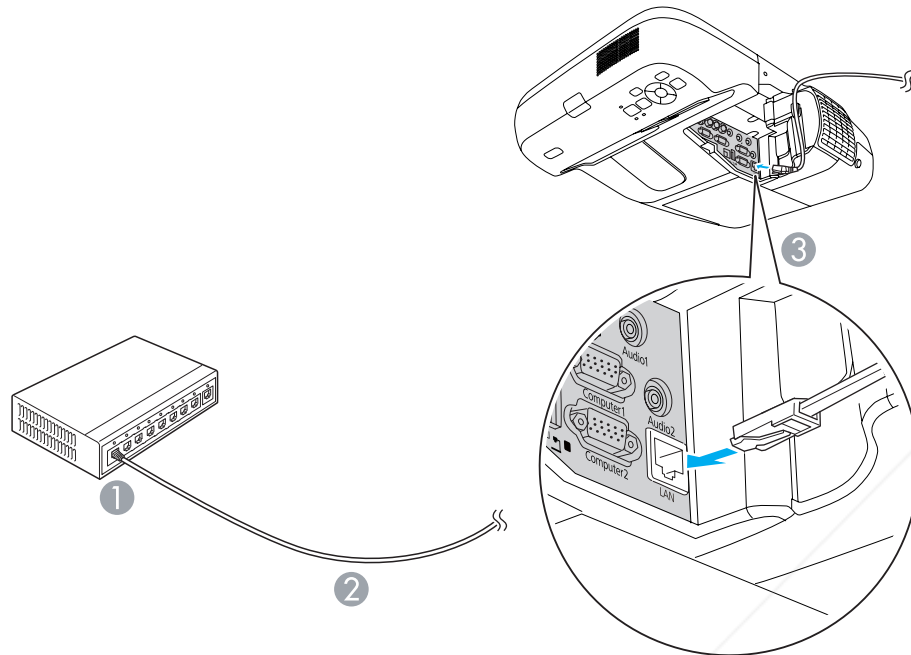
You can output microphone audio from the projector's speaker by connecting a microphone to the projector's Microphone (Mic) input port. The projector does not support plug-in-power.



- ① To Microphone (Mic) input port

Discount Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Connect with a commercially available 100BASE-TX or 10BASE-T LAN cable.



- ① To LAN port
- ② LAN cable (commercially available)
- ③ To LAN port

Attention

To prevent malfunctions, use a category 5 shielded LAN cable.

FixYourDLP.com

Sponsored by

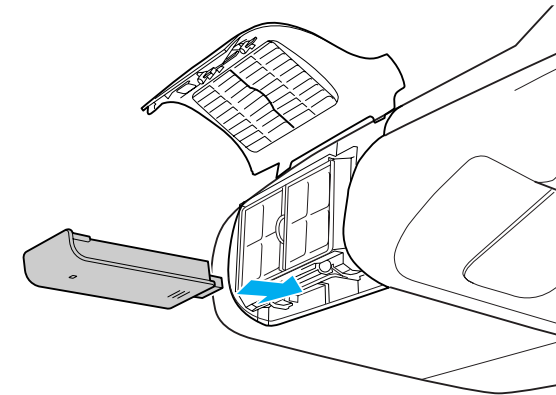
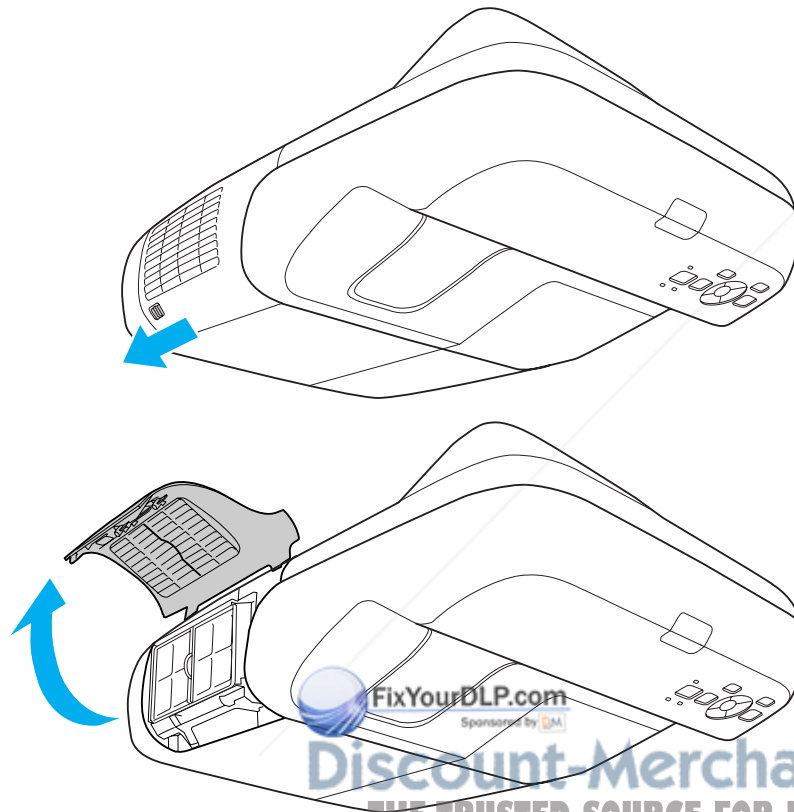
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Install the optional wireless LAN unit in the projector. 🖨️ "Optional Accessories and Consumables" [p.116](#)

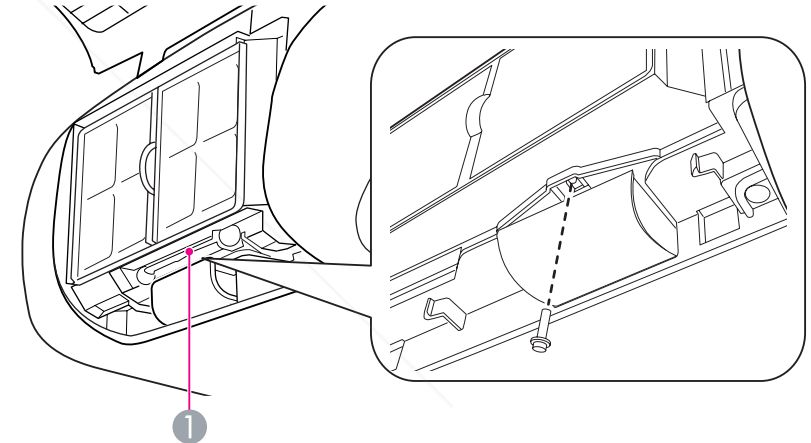
Procedure

1 Open the air filter cover.

Slide the air filter cover open/close lever horizontally to open the air filter cover.



3 Secure the Wireless LAN unit using the screw included to avoid losing the unit.



① Screw hole to fix wireless LAN unit

2 Install the Wireless LAN unit.

FixYourDLP.com
Sponsored by DM
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

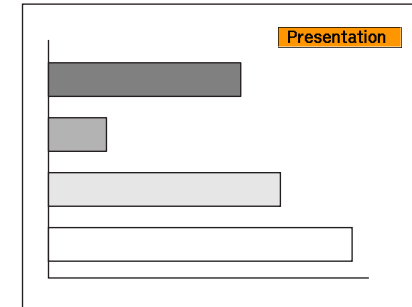
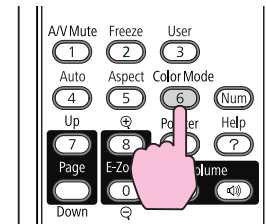
Selecting the Projection Quality (Selecting Color Mode)

You can easily obtain the optimum image quality simply by selecting the setting that best corresponds to your surroundings when projecting. The brightness of the image varies depending on the mode selected.

Mode	Application
Dynamic	Ideal for use in a bright room. This is the brightest mode, and reproduces shadow tones well.
Presentation	Ideal for making presentations using color materials in a bright room.
Theatre	Ideal for watching films in a dark room. Gives images a natural tone.
Photo	(When inputting computer image signals or the input source is USB or LAN) Ideal for projecting still pictures, such as photos, in a bright room. The images are vivid and brought into contrast.
Sports	(When Component Video, S-Video, or composite video images are input) Ideal for watching TV programmes in a bright room. The images are vivid and brought to life.
sRGB	Ideal for images that conform to the sRGB color standard.
Blackboard	Even if you are projecting onto a Blackboard (greenboard), this setting gives your images a natural tint, just as when projecting onto a screen.
Whiteboard	Ideal for making presentations using a whiteboard.

Procedure

Remote Control



Each time you press the button, the Color Mode name is displayed on the screen and the Color Mode changes.

If you press the button while the Color Mode name is displayed on the screen, it changes to the next Color Mode.



The color mode can also be set from **Color Mode** in the **Image** menu from the Configuration Menu. [p.74](#)

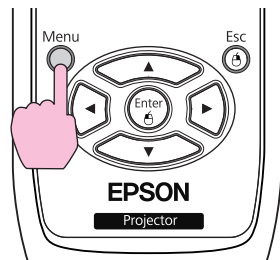
Setting the Auto Iris

By automatically setting the luminance according to the brightness of the displayed image, it lets you enjoy deep and rich images.

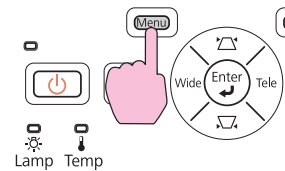
Procedure

- 1 Press the [Menu] button and select **Image - Auto Iris** from the Configuration Menu.  **"Using the Configuration Menu"**

Using the Remote Control



Using the Control panel



- 2 Select **"On"**.
The setting is stored for each Color Mode.

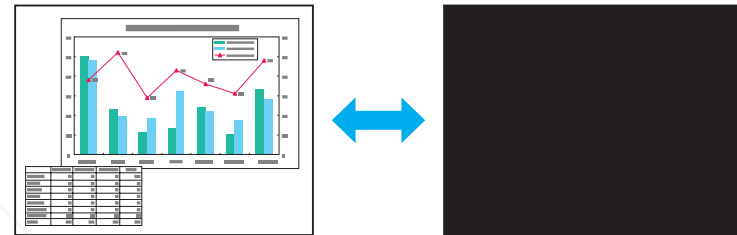
- 3 Press the [Menu] button to close the Configuration Menu.



Auto Iris can only be set when the **Color Mode** is set to **Dynamic** or **Theatre**.

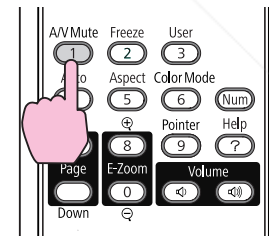
Hiding the Image and Sound Temporarily (A/V Mute)

You can use this when you want to turn off screen images so that the audience's attention is focused on what you are saying, or when you do not want the audience to see operations such as changing files.




Procedure

Remote Control



Each time you press the button, A/V Mute turns on or off.

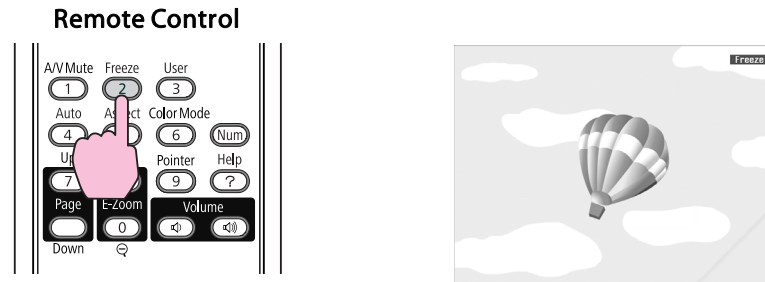


- If you use this function when projecting moving images, the images and sound continue to be played back by the source, and you cannot return to the point where A/V Mute was activated.
- You can choose to display **Black**, **Blue**, or **Logo** as the A/V Mute display using the **Extended - Display - A/V Mute** setting from the configuration menu.  **p.78**
- Microphone audio is also output when A/V Mute is turned on.

Freezing the Image (Freeze)

When the moving image on the screen is frozen, the image continues to project, so you can project a moving image one frame at a time like a still photo. Also, you can perform operations such as changing between files during presentations from a computer without projecting any images if the freeze function is activated beforehand.

Procedure



Each time you press the button, Freeze turns on or off.



- Audio does not stop.
- For moving images, the images continue to play back while the screen is frozen, so it is not possible to resume projection from the point where the screen was frozen.
- If the [Freeze] button is pressed while the Configuration Menu or a Help screen is displayed, the menu or Help screen being displayed is cleared.
- Freeze still works while E-Zoom is being used.

FixYourDLP.com

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Changing the Aspect Ratio

Change the Aspect Ratio when video equipment is connected so that images that have been recorded in digital video or onto DVDs can be viewed in 16:9 wide-screen format. Change the Aspect Ratio when projecting computer images at full size.

The changing methods and the types of Aspect ratio are as follows.

Changing methods

Procedure



Each time you press the button, the Aspect name is displayed on the screen and the Aspect changes.



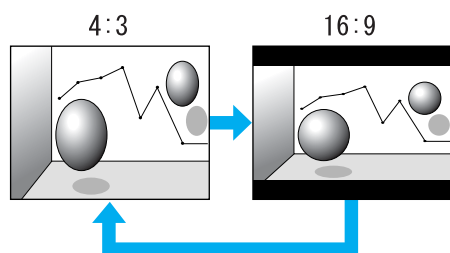
The aspect ratio can also be set from **Aspect** in the **Signal** menu from the Configuration Menu.  [p.75](#)

Changing the aspect ratio for video equipment images

EB-460i/460

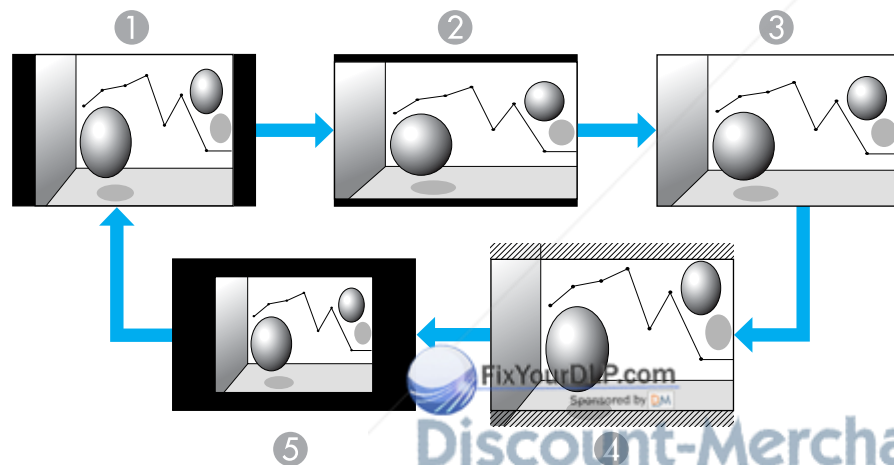
- ③ Full
- ④ Zoom
- ⑤ Native

Each time you press the button, the aspect ratio changes between 4:3 and 16:9.



EB-450Wi/450W/440W



Each time the button is pressed, the aspect ratio changes in the order of Normal, 16:9, Full, Zoom, and Native.




- ① Normal
- ② 16:9

Changing the aspect ratio for computer images (EB-460i/460)

You can change the aspect ratio as follows.

Set Values	Operation	Projection example
Normal	Projects to the full projection size retaining the Aspect of the input image.	
4:3	Projects to the full projection size at an Aspect of 4:3. This is ideal for when you want to project images at an Aspect of 5:4 (1280 x 1024) to the full projection size.	When a 1280x1024 signal is input 
16:9	Projects at a 16:9 Aspect. This is ideal for projecting at full screen size when using a 16:9 screen.	When a 1280x1024 signal is input 



If parts of a projected image are missing and not all of the image can be projected, set **Resolution** from the Configuration Menu to **Wide** or **Normal** according to your computer's panel size.  [p.75](#)



FixYourDLP.com

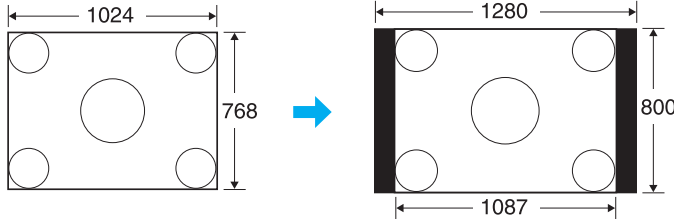
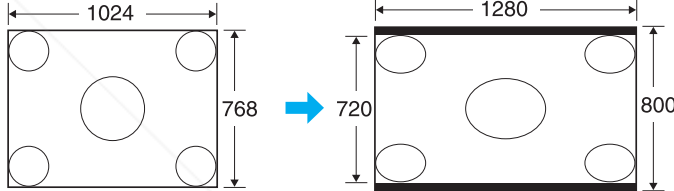
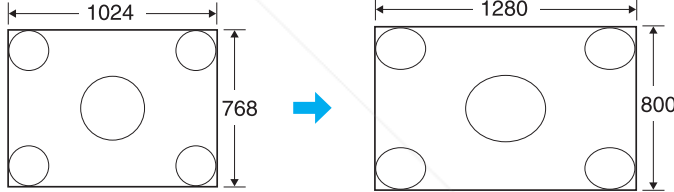

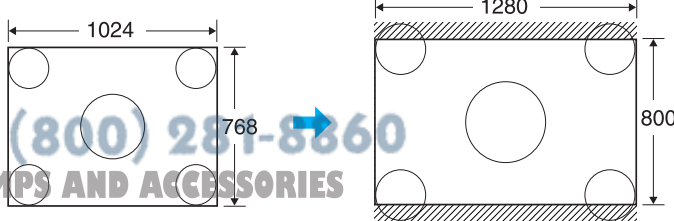
Sponsored by 

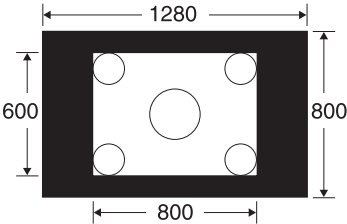
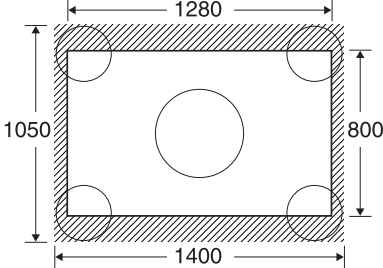
Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Changing the aspect ratio for computer images (EB-450Wi/450W/440W)

You can change the aspect ratio as follows. EB-450Wi/450W/440W offers a panel resolution of WXGA so the projection size is 1280x800 dots (aspect ratio of 16:10). When projecting onto a 16:9 screen, set the the aspect ratio to 16:9.

Set Values	Operation	Projection example
Normal	Projects to the full projection size retaining the Aspect of the input image.	When a 1024x768 signal is input 
16:9	Projects to the full projection size at an Aspect of 16:9.	When a 1024x768 signal is input 
Full	Project at full size.	When a 1024x768 signal is input 
Zoom	Projects the input image at the lateral direction aspect size as it is. Parts that extend beyond the projection size are not projected.  FixYourDLP.com <small>Sponsored by DM</small> Discount-Merchant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES	When a 1024x768 signal is input 

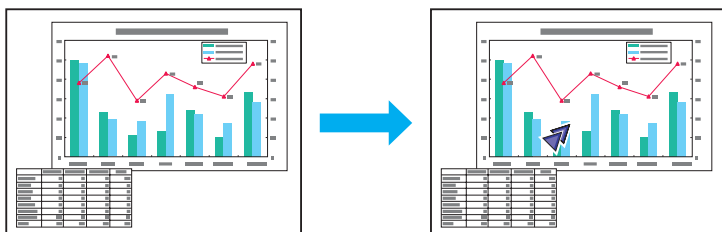
Set Values	Operation	Projection example	
Native	Projects at the resolution of the input image size to the center of the screen. This is ideal for projecting clear images. If the image resolution exceeds 1280x800, the edges of the image are not projected.	When an 800x600 signal is input 	When an 1400x1050 signal is input 



If parts of a projected image are missing and not all of the image can be projected, set **Resolution** from the Configuration Menu to **Wide** or **Normal** according to your computer's panel size. [p.75](#)

Using the Pointer to Highlight Sections (Pointer)

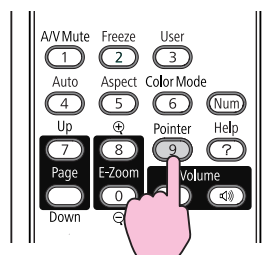
This allows you to move a Pointer icon on the projected image, and helps you draw attention to the area you are talking about.



Procedure

1 Display the Pointer.

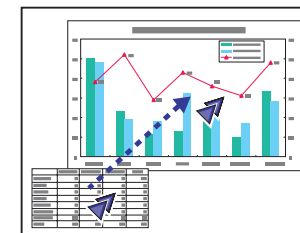
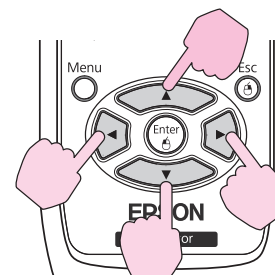
Remote Control



Each time you press the button, the pointer appears or disappears.

2 Move the Pointer icon (↗).

Remote Control



When you press two of the [↖][↗][↘][↙] buttons that are adjacent to each other at the same time, the pointer can be moved diagonally instead of up, down, left, or right.



You can choose from three different kinds of Pointer icon (↗, ✖, or ↘) in **Settings - Pointer Shape** from the Configuration Menu.
p.76

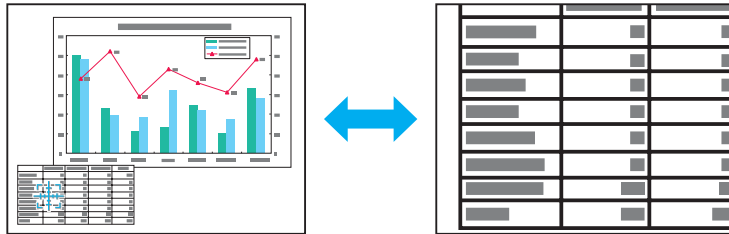


FixYourDLP.com
Sponsored by DM

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Enlarging Part of the Image (E-Zoom)

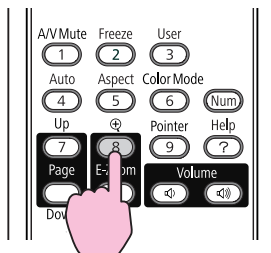
This is useful when you want to expand images to see them in greater detail, such as graphs and tables.



Procedure

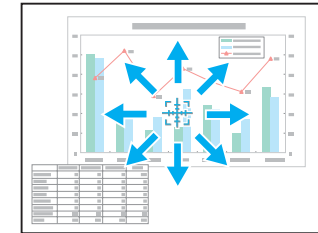
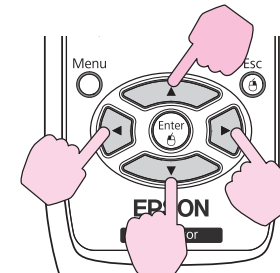
1 Start E-Zoom.

Remote Control



2 Move the cross (⛶) to the part of the image that you want to enlarge.

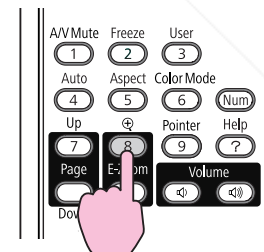
Remote Control



When you press two of the [⬆] [⬇] [⬅] [➡] buttons that are adjacent to each other at the same time, the cross can be moved diagonally instead of up, down, left, or right.

3 Enlarge.

Remote Control







Each time the button is pressed, the area is expanded. You can expand quickly by holding the button down.

You can reduce the enlarged image by pressing the ⌵ button.

Press the [Esc] button to cancel.




- The enlargement ratio appears on the screen. The selected area can be enlarged to between 1 to 4 times in 25 incremental steps.
- Press the [] [] [] [] buttons to scroll the image.
- If E-Zoom is selected, Progressive and Noise Reduction are cancelled.

Operating the Mouse Pointer by Remote Control (Wireless Mouse)

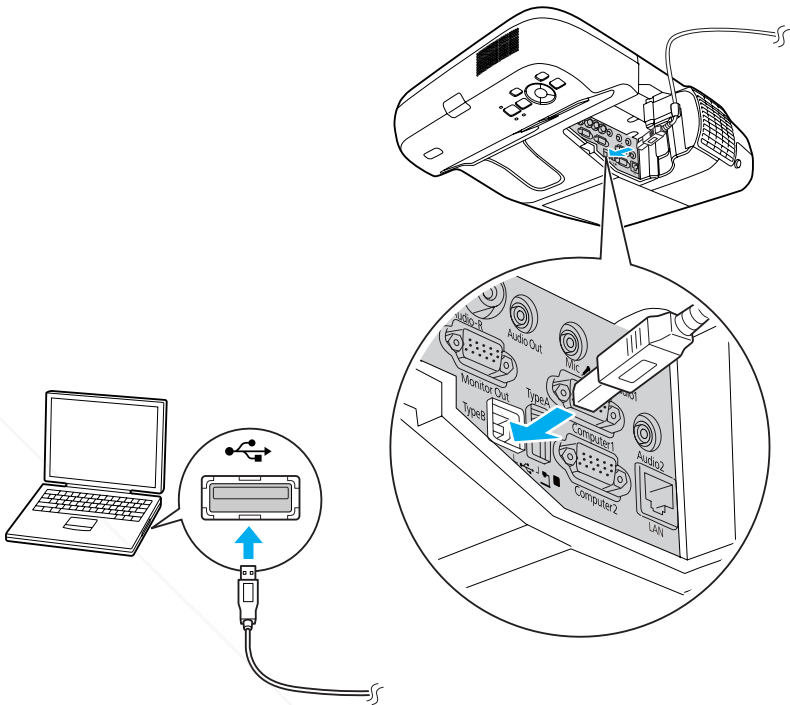
To activate the Wireless Mouse function, set USB Type B to Wireless Mouse from the Extended menu in the Configuration Menu.

The following shows the default settings for USB Type B.

- EB-460i/450Wi: Off
- EB-460/450W/440W: USB Display

Change the setting beforehand.  [p.78](#)

By connecting a computer's USB port and the USB(TypeB) on the side of the projector with the supplied USB cable, you can use the projector's remote control like a wireless mouse to control the computer's mouse pointer.



	Windows	Mac OS
OS	Windows 98 Windows 98SE Windows Me Windows 2000 Windows XP Windows Vista Windows 7	Mac OS X 10.3.x Mac OS X 10.4.x Mac OS X 10.5.x Mac OS X 10.6.x

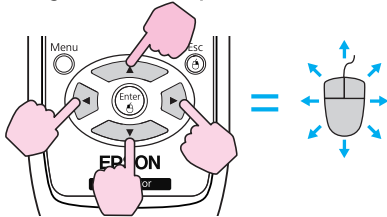




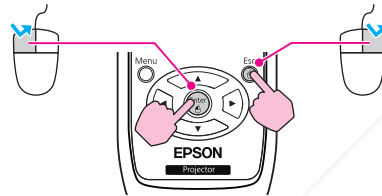
- The Wireless Mouse function can only be used when the input source is Computer1/Computer2 and the input signal is RGB.
- You may not be able to use the Wireless Mouse function in some versions of Windows and Mac OS.
- Some computer settings may have to be changed in order for the mouse function to be used. Consult the documentation for the computer for further details.

Once the connection has been made, the mouse pointer can be operated as follows.

Moving the mouse pointer

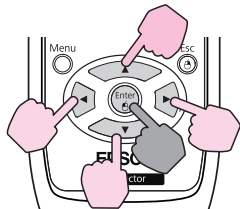



Mouse clicks



Left click: Press the [Enter] button.
Right click: Press the [Esc] button.
Double click: Press quickly twice.

Drag and drop

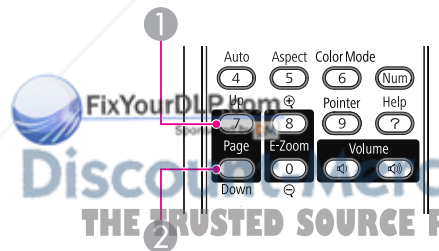


: Keep pressed

1. While holding down the [Enter] button, press the [Up], [Down], [Left], or [Right] button.

Switching PowerPoint screens

This is useful for displaying the previous or next slide in a PowerPoint Slideshow.





- 1 To previous slide

2. Release the [Enter] button to drop at the desired location. 2 To next slide



- When you press two of the [Up], [Down], [Left], or [Right] buttons that are adjacent to each other at the same time, the pointer can be moved diagonally instead of up, down, left, or right.
- If the mouse button settings are set to reverse on the computer, the operation of the Remote Control buttons will also be reversed.
- The Wireless Mouse function cannot be used while the following functions are being used.
 - While the Configuration Menu is being displayed
 - While a Help menu is being displayed
 - While the E-Zoom function is being used
 - While a User's Logo is being captured
 - While a User Pattern is being captured
 - While the Pointer function is being used
 - While the Volume is being adjusted
 - While USB Display is being operated
 - While a Pattern is being displayed
 - While Color Mode is being set
 - While the Source name is being displayed

The projector has the following enhanced security functions.

- **Password Protect**
You can limit who can use the projector.
- **Control Panel Lock**
You can prevent people changing the settings on the projector without permission.  [p.52](#)
- **Anti-Theft Lock**
The projector is equipped with various types of anti-theft security devices.  [p.53](#)

Managing Users (Password Protect)

When Password Protect is activated, people who do not know the Password cannot use the projector to project images even if the projector power is on. Furthermore, the user's logo that is displayed when you turn on the projector cannot be changed. This acts as an anti-theft device as the projector cannot be used even if it is stolen. At the time of purchase, Password Protect is not activated.

Type of Password Protect

The following three kinds of Password Protect settings can be made according to how the projector is being used.

1. Power On Protect

When **Power On Protect** is **On**, you need to enter a preset Password after the projector is plugged in and turned on (this also applies to Direct Power On). If the correct Password is not entered, projection does not start.

2. User's Logo Protect

There is little point in going to the trouble of saving a User's Logo to indicate the owner of a projector if the logo display is changed later. When **User's Logo Protect** is set to **On**, changing the following settings for the User's Logo is prohibited.

- Capturing a User's Logo
- Settings for **Display Background**, **Startup Screen**, and **A/V Mute** from **Display** in the Configuration Menu.

3. Network Protect

When **Network Protect** is set to **On**, changing the settings for **Network** in the Configuration Menu is prohibited.

Setting Password Protect

Use the following procedure to set Password Protect.

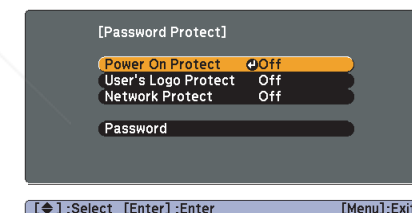
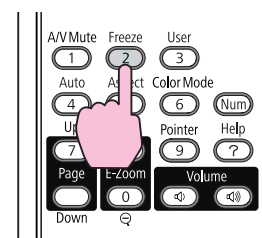
Procedure



During projection, hold down the [Freeze] button for about five seconds.

The Password Protect setting menu is displayed.

Remote Control



[Left Arrow]:Select [Enter]:Enter [Menu]:Exit



- If Password Protect is already activated, you are requested to enter the Password.
If the Password is entered correctly, the Password Protect setting menu is displayed. ➡ "Entering the Password" p.51
- When the password is set, stick the supplied password protect sticker in a visible position on the projector as a further theft deterrent.

2

Turn on Power On Protect.

- (1) Select **Power On Protect**, and then press the [Enter] button.
- (2) Select **On**, and then press the [Enter] button.
- (3) Press the [Esc] button.

3

Turn on User's Logo Protect.

- (1) Select **User's Logo Protect**, and then press the [Enter] button.
- (2) Select **On**, and then press the [Enter] button.
- (3) Press the [Esc] button.

4

Turn on Network Protect.

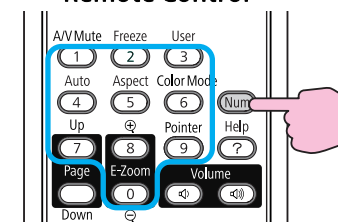
- (1) Select **Network Protect**, and then press the [Enter] button.
- (2) Select **On**, and then press the [Enter] button.
- (3) Press the [Esc] button.

5

Set the Password.

- (1) Select **Password**, and then press the [Enter] button.
- (2) When the message "**Change the password?**" is displayed, select **Yes** and then press the [Enter] button. The default setting for the Password is "0000". Make sure you change this to your own desired password. If you select **No**, the screen displayed in step 1 is displayed again.
- (3) While holding down the [Num] button, enter a four digit number using the numeric buttons. The number entered is displayed as "****". When you enter the fourth digit, the confirmation screen is displayed.

Remote Control



- (4) Re-enter the Password.
The message "**Password accepted.**" is displayed.
If you enter the Password incorrectly, a message is displayed prompting you to re-enter the password.

Entering the Password

When the Password entry screen is displayed, enter the Password using the numeric buttons on the Remote Control.

Procedure

While holding down the [Num] button, enter the Password by pressing the numeric buttons.

When you enter the correct Password, projection begins.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Attention

- If an incorrect password is entered three times in succession, the message **"The projector's operation will be locked."** for about five minutes, and then the projector switches to standby mode. If this happens, disconnect the power plug from the electrical outlet and then reinsert it and turn the projector's power back on. The projector displays the Password entry screen again so that you can enter the correct Password.
- If you have forgotten the password, make a note of the "Request Code: xxxxx" number that appears on the screen and contact the nearest address provided in the Support and Service Guide. [Epson Projector Contact List](#)
- If you continue to repeat the above operation and enter the wrong Password thirty times in succession, the following message is displayed and the projector does not accept any more password entries. **"The projector's operation will be locked. Contact Epson as described in your documentation."** [Epson Projector Contact List](#)

Restricting Operation (Control Panel Lock)

Perform one of the following to lock the operation buttons on the Control panel.

- **Full Lock**
All of the buttons on the Control panel are locked. You cannot perform any operations from the Control panel, including turning the power on or off.
- **Partial Lock**
All of the buttons on the Control panel, except for the [⏻] button, are locked.

This is useful at events or shows when you want to deactivate all buttons and only project, or at schools when you want to limit button operation. The projector can still be operated using the Remote Control.



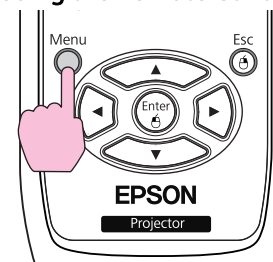
Procedure

1

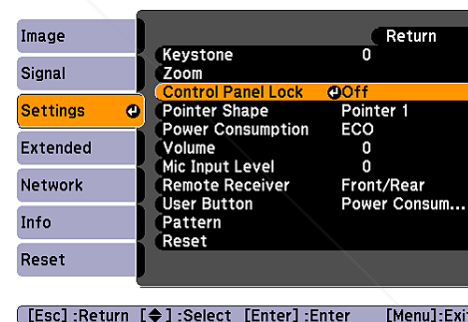
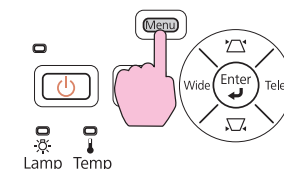
During projection, press the [Menu] button and select Control Panel Lock from the Settings Menu in the Configuration Menu.

➡ "Using the Configuration Menu" [p.73](#)

Using the Remote Control

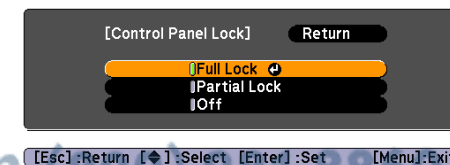


Using the Control panel



2

Select either Full Lock or Partial Lock.



3

Select Yes when the confirmation message is displayed.

The Control panel buttons are locked according to the setting you chose.



You can release the Control panel lock by one of the following two methods.

- From the Remote Control, select **Off** in **Settings - Control Panel Lock** from the Configuration Menu.
- Press and hold down the [Enter] button on the Control panel for about seven seconds, a message is displayed and the lock is released.

Anti-Theft Lock

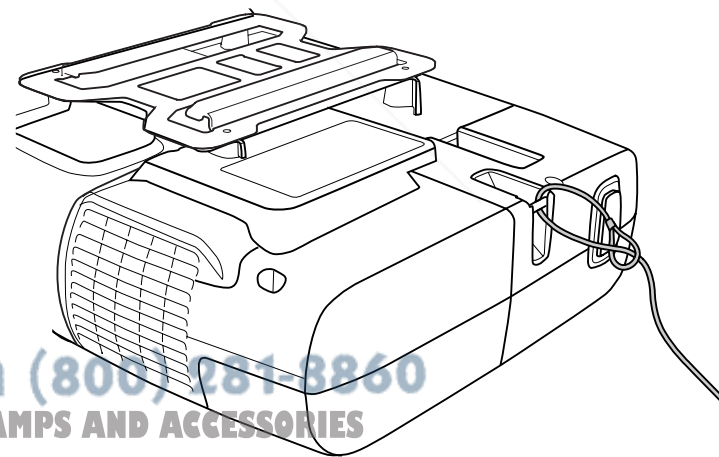
As the projector is often setup on ceiling mounts and left in rooms unattended, the projector includes the following security devices to prevent someone from taking the projector.

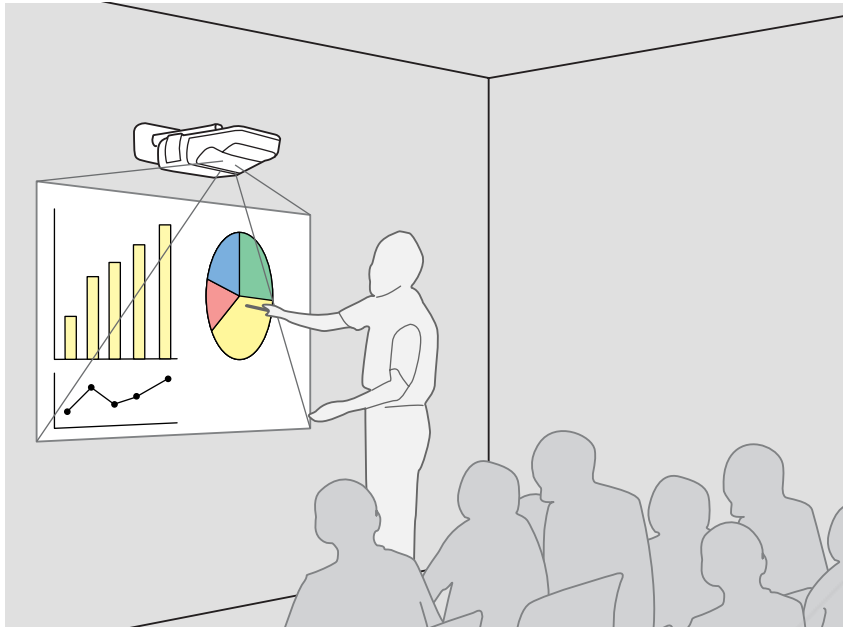
- **Security slot**
The Security slot is compatible with the Microsaver Security System manufactured by Kensington. You can find details about the Microsaver Security System on the Kensington homepage <http://www.kensington.com/>.
- **Security cable installation point**
A commercially available theft-prevention wire lock can be used to secure the projector to a pillar.

Installing the wire lock

Pass an anti-theft wire lock through the installation point.

See the documentation supplied with the wire lock for locking instructions.





Summary of Easy Interactive Function

- By simply connecting a computer to the projector, you can control the computer on the projection screen and give an effective, interactive presentation or lesson.
- Using the dedicated Easy Interactive Pen
The supplied pen (Easy Interactive Pen) can be used like a mouse, which allows you to treat the projection surface in the same way as a computer screen. You can use an application with a drawing function to draw diagrams and write text on the projection surface.



Download Easy Interactive Tools, a dedicated application for the drawing function, from the Epson Web site.

 <http://www.epson.com>

- Position alignment (Calibration)
This operation is for aligning the pen position on the projection surface and the mouse position on the computer screen in order to use the Easy Interactive Pen. Touching the reference points displayed on the projection surface with the Easy Interactive Pen enables operation on the projection surface using the Easy Interactive Pen.



FixYourDLP.com


Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Operation Steps

Using Easy Interactive Function for the first time

 p.56

It is only necessary to install the driver and perform calibration the first time.

1. Connect the computer cable and USB cable, and turn on the computer.



2. Install Easy Interactive Driver.




3. Turn on the projector and start Easy Interactive Driver.



4. Perform position alignment (calibration).

After calibration, Easy Interactive Function is ready for use.

From the second time

 p.59

You can use Easy Interactive Function by just starting Easy Interactive Driver.

You will need to perform calibration again when you use a computer with a different resolution or change the projection area.

OS	Windows 2000 Service Pack 4 or later Windows XP Service Pack 2 or later (Home Edition/Professional) Windows Vista* (All editions except for Starter) Windows 7*
CPU	Pentium III 1.2GHz or faster Recommended: Pentium M 1.6GHz or faster
Amount of Memory	256MB or more
Hard Disk Free Space	100MB or more
Display	Resolution greater than XGA (1024x768)

* 32-bit versions only

For Mac OS

OS	Mac OS X 10.3.x Mac OS X 10.4.x Mac OS X 10.5.x Mac OS X 10.6.x
CPU	Power PC G3 900MHz or faster Recommended: Intel Core Duo 1.5GHz or faster
Amount of Memory	256MB or more
Hard Disk Free Space	100MB or more
Display	Resolution greater than XGA (1024x768)



Some settings on the computer may need to be changed to use the mouse function. See the documentation supplied with the computer.

System Requirements

For Windows

FLYYouDLR.com
Sponsored by DM

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR CAMPS AND ACCESSORIES

Using Easy Interactive Function for the First Time

Procedure

- 1 **Connect the projector and computer with the computer cable and USB cable.**
- 2 **Turn on the computer.**
- 3 **Install Easy Interactive Driver.**



Check the following points before starting installation.

- Install the software as a user with administrator authority.
- Close all running applications and then start the installation.

For Windows

- (1) Insert the "EPSON Projector Software for Easy Interactive Function Ver.x.xx" CD-ROM into your computer.
The setup program starts automatically.
- (2) Select the language you want to use on the language selection screen, and click **Next** >.
- (3) Follow the on-screen instructions to install.
- (4) Select **Register to Startup** and **Launch Easy Interactive Driver Ver.x.xx**.
- (5) Click **Finish** to close the installer and automatically start Easy Interactive Driver.

For Mac OS

- (1) Insert the "EPSON Projector Software for Easy Interactive Function Ver.x.xx" CD-ROM into your computer.
- (2) Double-click **EIDriverV100_Setup** in the EPSON window.

- (3) Select **Start up.** and **Launch Easy Interactive Driver Ver.x.xx**.
*These two settings are not displayed in Mac OS 10.3.
- (4) Follow the on-screen instructions to install.
- (5) When **Finished** is displayed, the installer closes and Easy Interactive Driver starts automatically.



- When the setup program does not start automatically (Windows only)
Select **Start - Run** to open the **Run** dialog box, type the letter for your CD-ROM drive followed by `:\EIDriverVxxx_Setup.exe`, and then click **OK**.

- When Easy Interactive Driver does not start automatically

For Windows

Select **Start - Programs** (or **All Programs**) - **EPSON Projector - Easy Interactive Driver Ver.x.xx**.

For Mac OS

Double-click the Applications folder of the hard disk volume on which Easy Interactive Driver is installed, and then double-click the **Easy Interactive Driver** icon.

- When uninstalling Easy Interactive Driver

For Windows

Select **Start - Settings - Control Panel - Add-Remove Programs** or **Add or Remove Programs** and then remove **Easy Interactive Driver**.

For Mac OS

Run **EIDriverVxxx_Uninstaller** in the the hard disk volume on which Easy Interactive Driver is installed.



4

Turn on the projector.

Check the following when images are not projected.

- Change the projector's input source to Computer1 or Computer2.
p.21
- Change the output destination for the video signals on the computer. Computer's documentation

Images are projected shortly after you make the changes.

Example of Changing Output			
Epson	Fn + F8	Macintosh	Make mirroring settings or perform display detection. Depending on the OS, the output can be changed with F7.
NEC	Fn + F8		
Panasonic			
SOTEC			
HP	Fn + F4		
Toshiba	Fn + F5		
Lenovo/IBM	Fn + F7		
SONY			
DELL	Fn + F8		
Fujitsu	Fn + F10		

Computer only Screen only Both

On some computers, the display state changes as follows each time you press the keys for changing the output.



5

The connection status is indicated by an icon.

For Windows

The icon is displayed in the notification area of the taskbar.

<Connected>



<Not Connected>



For Mac OS

The icon is displayed in the Dock.

<Connected>



<Not Connected>



- It may take a few seconds for the icon to indicate the connection status.
- If the not connected icon is displayed, check whether or not the projector and computer are connected with the USB cable correctly. You may be able to resolve the problem by disconnecting and then reconnecting the USB cable.

FixYourDLR.com

Sponsored by

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

6 Start calibration.

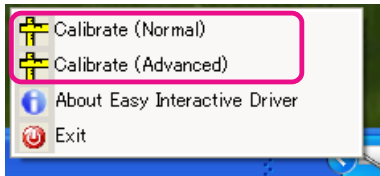
Check that the icon is indicating the connected status.

Perform calibration with either **Calibrate (Normal)** (number of points: 25) or **Calibrate (Advanced)** (number of points: 49).

We recommend that you normally use the **Calibrate (Normal)**. Select **Calibrate (Advanced)** when higher accuracy is required.

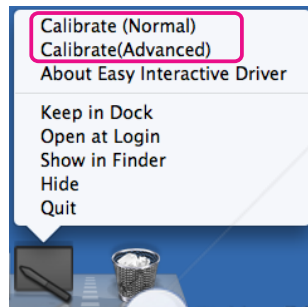
For Windows

Click the icon in the notification area of the taskbar, and select an item from the menu that is displayed.



For Mac OS

Click the icon in the Dock or **Calibrate** on the menu bar, and select an item from the menu that is displayed.

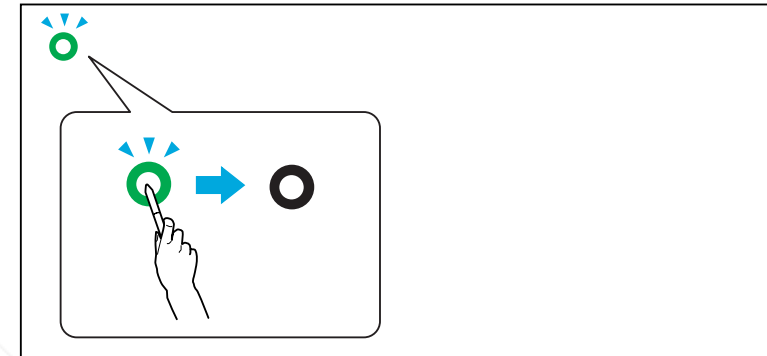


For details on calibration, see "Calibration" p.61.

7 Click "OK" when the calibration start message is displayed.

8 A dot flashes in the top left of the screen.

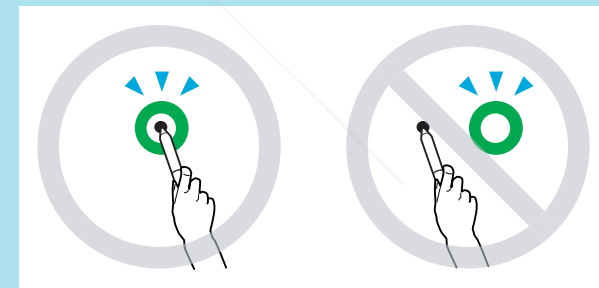
If you touch the center of the dot with the tip of the Easy Interactive Pen, the dot changes from flashing to lit.



Using Easy Interactive Pen p.18

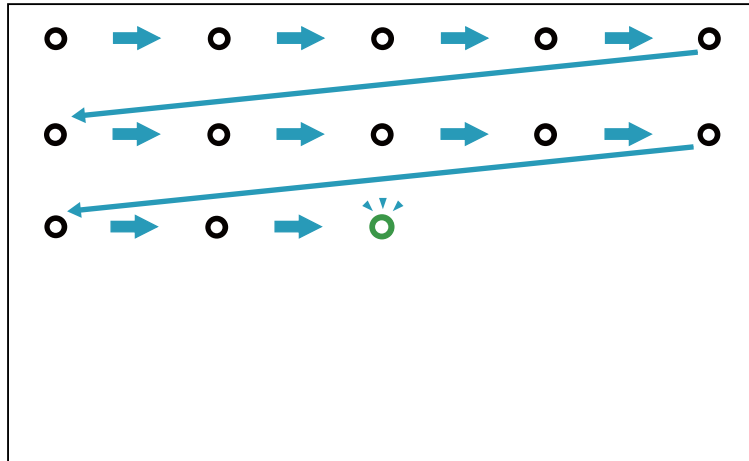


Make sure you touch the center of the dot. The dot changes from flashing to lit even if you touch an area outside of the circle. Since calibration is performed using the position touched, positioning may be offset if you touch an area other than the center of the circle.



9 The dots are displayed in order from the top left to bottom right of the screen.

Repeat step 9 until all of the dots are lit.



It may take a few seconds for the **Easy Interactive Driver** icon to change to connected status after all of the dots are lit.

10

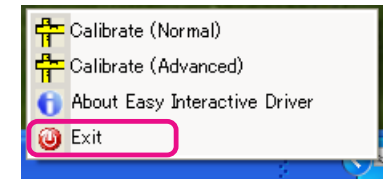
After calibration, you can use the **Easy Interactive Pen** to perform the same operations as a mouse on the projection surface.

11

Use the following procedure to end the **Easy Interactive Function**.

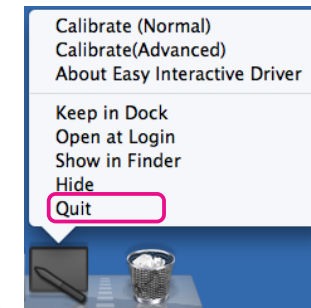
For Windows

Click the icon in the notification area of the taskbar, and select **Exit**.



For Mac OS

Click the icon in the Dock or Easy Interactive Driver on the menu bar, and select **Quit** from the menu that is displayed.



Using Easy Interactive Function from the Second Time

Procedure

1

Turn on the projector and computer.

Check that the projector and computer are connected with the computer cable and USB cable.

2 Easy Interactive Driver starts automatically.

Use the following procedure to start Easy Interactive Driver if it does not start.

For Windows

Select **Start - Programs (or All Programs) - EPSON Projector - Easy Interactive Driver Ver.x.xx**.

For Mac OS

Double-click the Applications folder of the hard disk volume on which Easy Interactive Driver is installed, and then double-click the **Easy Interactive Driver** icon.

3 The connection status is indicated by an icon.

For Windows

The icon is displayed in the notification area of the taskbar.

<Connected>



<Not Connected>



For Mac OS

The icon is displayed in the Dock.

<Connected>



<Not Connected>



After the projector and computer are connected, you can use Easy Interactive Pen to perform the same operations as a mouse on the projection surface.



- It may take a few seconds for the icon to indicate the connection status.
- If the not connected icon is displayed, check whether or not the EB-460i/450Wi and computer are connected with the USB cable correctly.

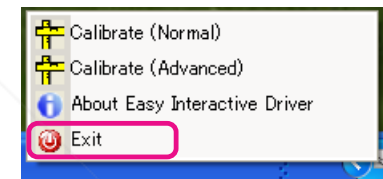
You may be able to resolve the problem by disconnecting and then reconnecting the USB cable.

4

Use the following procedure to end the Easy Interactive Function.

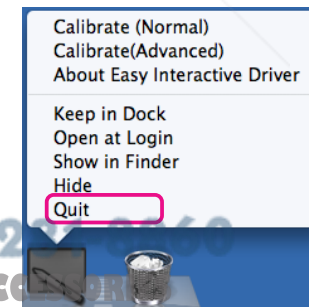
For Windows

Click the icon in the notification area of the taskbar, and select **Exit**.



For Mac OS

Click the icon in the Dock or Easy Interactive Driver on the menu bar, and select **Quit** from the menu that is displayed.



Calibration

To use Easy Interactive Function, you need to make sure you perform calibration to align the pen position on the screen and the mouse position on the projection screen with the Easy Interactive Pen.

There are two calibration modes: Calibrate (Normal) and Calibrate (Advanced).

Specify 25 points with the Calibrate (Normal), and 49 points with the Calibrate (Advanced).

Make sure you perform calibration the first time you use Easy Interactive Function. After that, you only need to perform calibration if the usage environment changes, for example if the connected computer is changed or the projection area is changed.

Cases in which calibration is required

In the following cases, the positioning of the Easy Interactive Pen on the projection surface and the mouse on the computer may be offset. When position offset becomes a problem, perform calibration again.

- When the computer's resolution is changed.
- When a computer with a resolution that differs from the last time calibration was performed is connected.
- When Keystone is performed from the Settings Menu in the Configuration Menu.
- When Zoom is changed from the Settings Menu in the Configuration Menu.
- When Auto Setup is performed from the Signal menu in the Configuration Menu.
- When Resolution is changed from the Signal menu in the Configuration Menu.
- When Tracking is changed from the Signal menu in the Configuration Menu.

- When Sync. is changed from the Signal menu in the Configuration Menu.
- When Position is changed from the Signal menu in the Configuration Menu.
- When Aspect is changed from the Signal menu in the Configuration Menu.
- When input detection is performed automatically.
- When position offset becomes a problem for other reasons.



- If you set Projection to Rear/Ceiling from the Extended menu in the Configuration Menu, Easy Interactive Function cannot be used because the pen position and mouse position will not match.
- The pen position and mouse position will not match while E-Zoom is being used.
- When you use Easy Interactive Function while images are projected with EasyMP Network Projection (input source: LAN), set **USB Type B** to **Wireless Mouse** or **Off** from the **Extended** menu in the Configuration Menu.

Replacing the Batteries for the Easy Interactive Pen

When the button is pressed, the indicator for the Easy Interactive Pen turns on. If it does not turn on, the batteries are out of power and need to be replaced. Have two AAA size alkaline batteries ready. For details on other batteries that can be used, contact your local dealer or the nearest address provided in the Support and Service Guide.

☞ [Epson Projector Contact List](#)

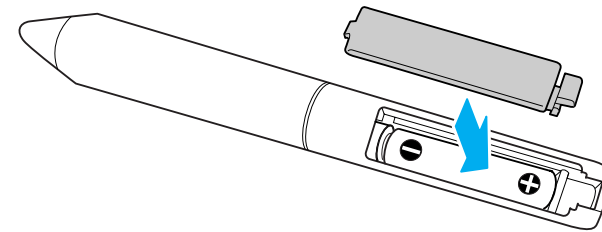
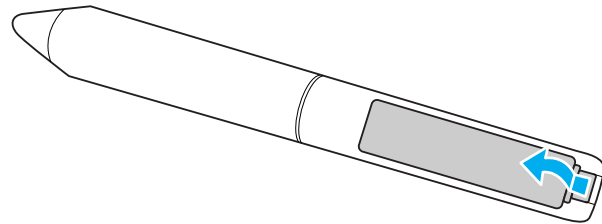
Attention

Make sure you read the separate Safety Instructions before handling the batteries. ☞ [Safety Instructions](#)

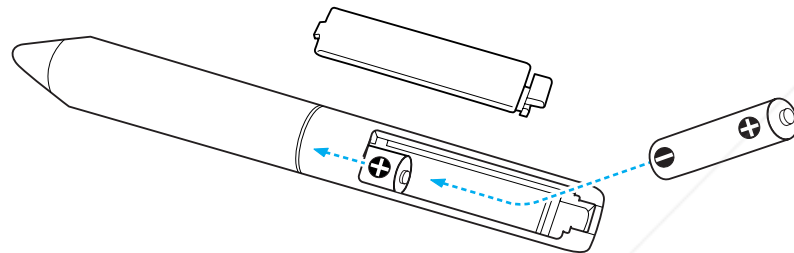
Procedure

1 Remove the battery cover.

While pushing the battery cover catch, lift the cover up.




2 Replace the old batteries with new batteries.



Caution

Check the positions of the (+) and (-) marks inside the battery holder to ensure the batteries are inserted correctly.

3 Reattach the battery cover.

Press the battery cover up  into place.

You can make Configuration Menu settings and control the projector by using the Web browser of a computer that is connected to the projector via a network. By using this function you can perform setup and control operations remotely. In addition, since you can use the computer's keyboard, entering characters required for the setup is easier.

Use Microsoft Internet Explorer 6.0 or later as the Web browser. If you are using Mac OS, you can also use Safari.



If you set **Standby Mode** to **Communication On** from the **Extended** menu in the projector's Configuration Menu, you can use the Web browser to make settings and perform control even if the projector is in a standby state (when the power is off).

Some items cannot be set with a Web browser (but can be from the Configuration Menu) and some items can only be set with a Web browser.

Items in the Configuration Menu that cannot be set with a Web browser

All items in the projector's Configuration Menu can be set except for the following.

- Settings Menu - Pointer Shape
- Settings Menu - Pattern
- Settings Menu - User Button
- Extended Menu - Saving User's Logo
- Extended Menu - Language
- Extended Menu - Operation - High Altitude Mode
- Reset Menu - Reset All, and Reset Lamp Hours
- Password Protect Menu

The items available in each menu are the same as the Configuration Menu of the projector.

☛ "List of Functions" p.74

Items that can only be set with a Web browser

The following items can only be set with a Web browser. They cannot be set from the Configuration Menu.

- Network settings- Others - SNMP - Community Name
- Network settings- Basic - Monitor Password

Displaying Web Control

Use the following procedure to display Web Control.



If your Web browser is set to connect via a proxy server, Web Control cannot be displayed. To display Web Control, you need to make settings so that a proxy server is not used for a connection.

Entering the IP address of the projector

When you are using Advanced Connection Mode, you can open Web Control by specifying the IP address of the projector as follows.

Procedure



Start the Web browser on the computer.



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 from the Network menu in the Configuration Menu, a screen for entering the password is displayed. Enter the characters set for the Web Control Password.



the same as the Configuration Menu

Sponsored by DM

Discount-Merchant.com (800) 281-8860

WE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Displaying Web Remote

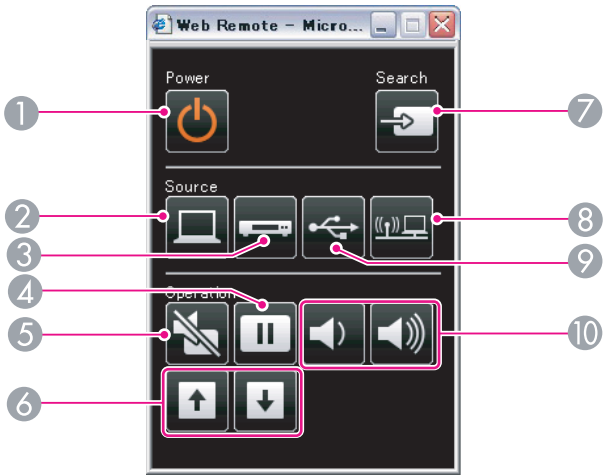
The Web Remote function allows you to perform projector remote control operations with a Web browser.

Procedure





- 1 Display Web Control.
- 2 Click Web Remote.



- 3 The Web Remote screen is displayed.



Name		Function
1	[Power] button	Turns the projector power On or Off. ☛ Quick Start Guide
2	[Computer] button	Each time you press the button, input changes between images from the Computer1 input port and the Computer2 input port. ☛ p.22
3	[Video] button	Each time you press the button, input changes between images from the Video input port and the S-Video input port. ☛ p.22
4	[Freeze] button	Pauses or resumes image playback. ☛ p.41
5	[A/V Mute] button	Temporarily turns the images and audio on or off. ☛ p.40
6	[Page] buttons ([Up]) ([Down])	When you are using the Wireless Mouse function or the input source is projecting a file from an application that supports page up/down via LAN, you can move the page up and down by pressing these buttons. ☛ p.48 , EasyMP Network Projection Operation Guide
7	[Source Search] button	Changes to images from the next device inputting an image signal. ☛ p.21

	Name	Function
8	[LAN] button	Changes to the images projected with EasyMP Network Projection. When you are projecting via Quick Wireless Connection using the optional Quick Wireless Connection USB Key, this button changes to that image.  p.22
9	[USB] button	Each time you press the button, input changes between images from the equipment connected to USB Display and USB(TypeA) port.  p.22
10	[Volume] buttons (◀) (▶)	<p>(◀) Decreases the Volume. (▶) Increases the Volume.  <i>Quick Start Guide</i></p> <div data-bbox="504 683 1057 960">  Caution <i>Do not increase the volume too high at the start. A sudden increase in volume may cause loss of hearing. Always lower the volume before turning the power off, and gradually increase the volume after turning the power on.</i> </div>



FixYourDLP.com

Sponsored by 

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.

☞ "Network Menu" [p.80](#), "Mail menu" [p.87](#)



- 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).



FixYourDLP.com

Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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 also enables you to know about errors when centrally managing projectors at a distance.

☞ "Network Menu" [p.80](#), "Mail menu" [p.87](#)



- SNMP should be managed by a network administrator or someone who is familiar with the network.
- The SNMP function to monitor projectors requires SNMP Manager to be installed on the computer.
- The managing function using SNMP cannot be used via a Wireless LAN in Quick Connection Mode.
- Up to two destination IP addresses can be saved.



FixYourDLP.com

Sponsored by 

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

You can save the image that is currently being projected as a User's Logo.

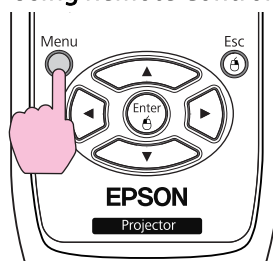


When a User's Logo is saved, the previous User's Logo is erased.

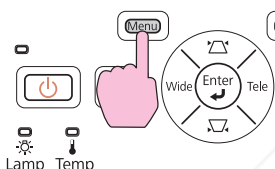
Procedure

- 1 Project the image you want to save as the User's Logo, and then press the [Menu] button.

Using Remote Control



Using Control panel




- 2 Select User's Logo from the Extended menu in the Configuration Menu.  "Using the Configuration Menu" p.73

Check the buttons you can use and the operations they perform in the guide under the menu.



[Esc]:Return [◀]:Select [Enter]:Enter [Menu]:Exit



- When **User's Logo Protect** from **Password Protect** is set to **On**, a message is displayed and the User's Logo cannot be changed. You can make changes after setting **User's Logo Protect** to **Off**.  p.50
- If **User's Logo** is selected when one of the Keystone, E-Zoom, Aspect, Progressive, and Zoom Adjustment functions is being used, the function currently being used is cancelled temporarily.



- 3 When the message "Choose this image as the User's Logo?" is displayed, select Yes.



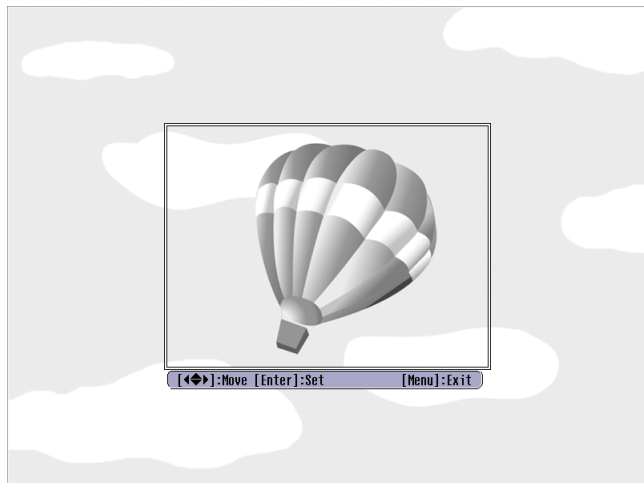
When you press the [Enter] button on the remote control or the control panel, the screen size may change depending on the signal to match the actual resolution of the image signal.



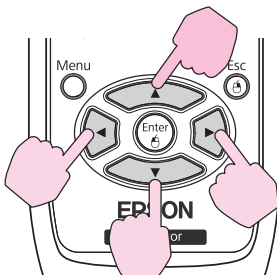
- 4 Move the box to select the part of the image to use as the User's Logo.

Discount-Merchant.com
Sponsored by DLP.com

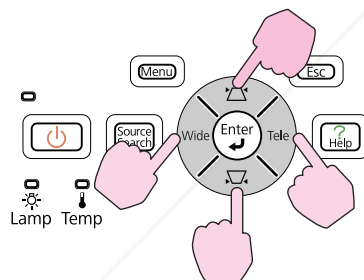
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



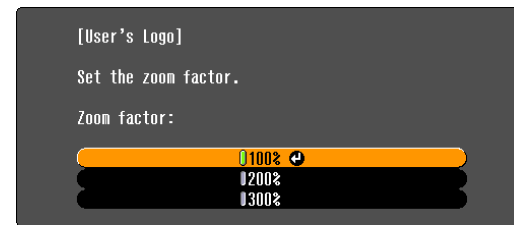
Using Remote Control



Using Control panel



You can save at a size of 400x300 dots.



[Esc]:Return [Diamond]:Select [Enter]:Set [Menu]:Exit

7

When the message "Save this image as the User's Logo?" is displayed, select Yes.

The image is saved. After the image has been saved, the message "Completed." is displayed.



- Once a User's Logo has been saved, the logo cannot be returned to the factory default.
- Saving the user's logo may take approximately 15 seconds. Do not use the projector or any connected equipment while it is saving, otherwise malfunctions may occur.

5

When the message "Select this image?" is displayed, select Yes.

6

Select the zoom factor from the zoom setting screen.



FixYourDLP.com
Sponsored by DLP

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

You can save the image that is currently being projected as a User Pattern.

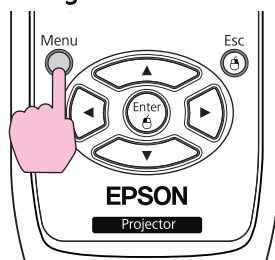


When a User Pattern is saved, the previous User Pattern is erased.

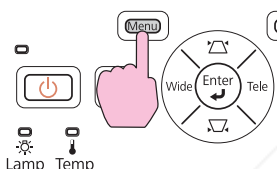
Procedure

- 1 Project the image you want to use as the User Pattern, and then press the [Menu] button.

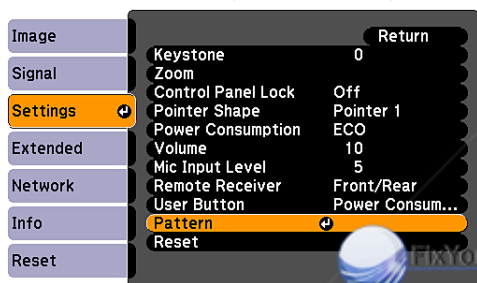
Using Remote Control



Using Control panel

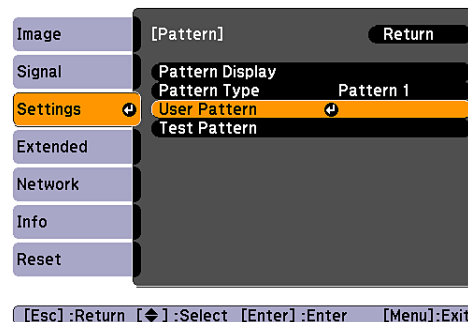


- 2 Select Pattern from the Settings Menu in the Configuration Menu. ➡ "Using the Configuration Menu" [p.73](#)



[Esc] :Return [↵] :Select [Enter] :Enter [Menu]:Exit

- 3 Select User Pattern.



[Esc] :Return [↵] :Select [Enter] :Enter [Menu]:Exit



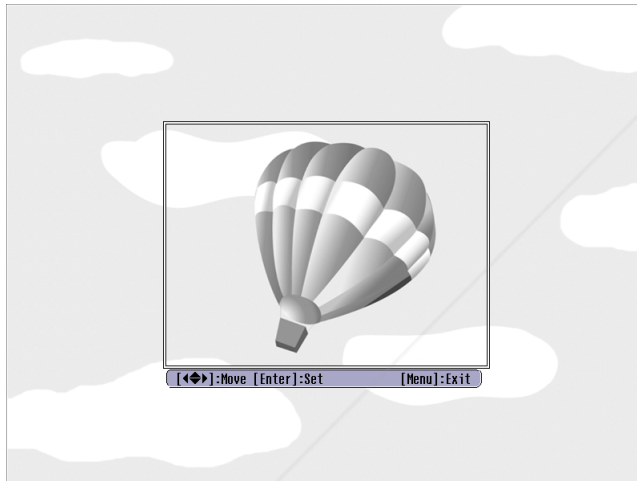
If **User Pattern** is selected when one of the Keystone, E-Zoom, Aspect, Progressive, and Zoom Adjustment functions is being used, the function currently being used is cancelled temporarily.

4

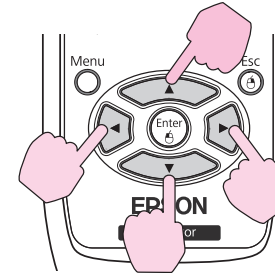
When "Do you want to use the currently projected image as the User Pattern?" is displayed, select Yes.

- You can save at a size of up to the projector screen size.
- When part of the projected image is missing (when the computer screen is larger than the projection screen), move the displayed box to select the part of the image to use as the User Pattern.

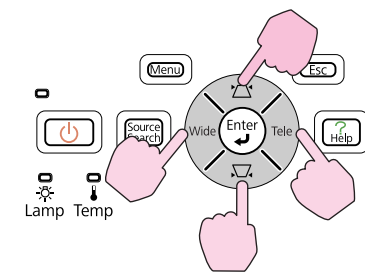
When **"Select this image?"** is displayed after you make a selection, select **Yes**.



Using Remote Control



Using Control panel



- When you press the [Enter] button on the remote control or the Control panel, the screen size may change depending on the signal to match the actual resolution of the image signal.

5

When the message "Save this image as the User Pattern?" is displayed, select Yes.

The image is saved. After the image has been saved, the message **"The User Pattern setting is complete."** is displayed.



- Once a User Pattern has been saved, User Pattern cannot be returned to the factory default.
- Saving the User Pattern may take approximately 15 seconds. Do not use the projector or any connected equipment while it is saving, otherwise malfunctions may occur.



FixYourDLP.com
Sponsored by DLP

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



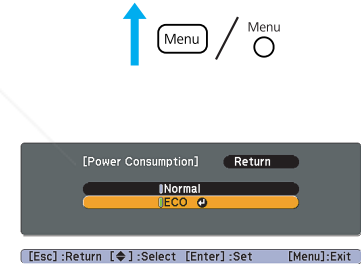
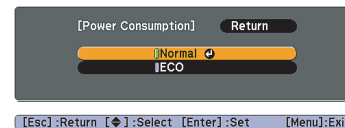
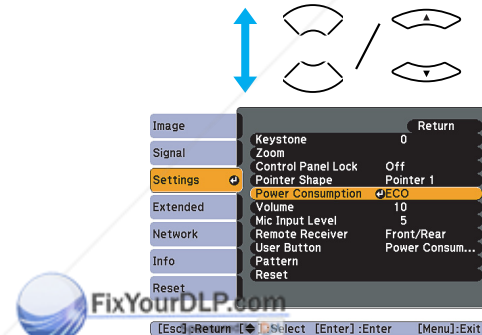
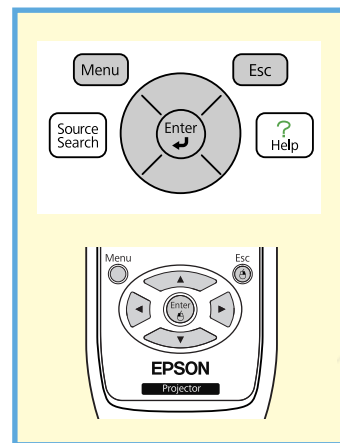
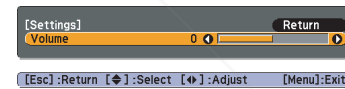
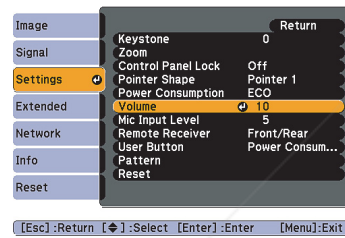
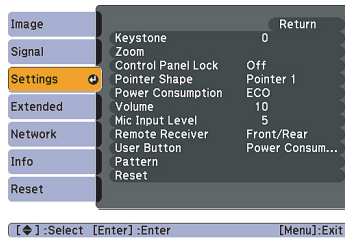
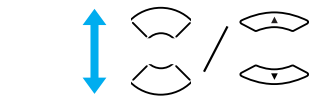
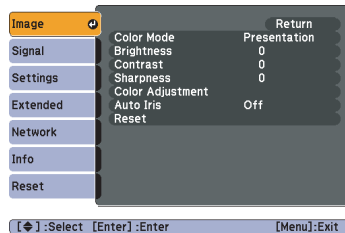
Configuration Menu

This chapter explains how to use the Configuration Menu and its functions.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

- 1 Selecting from the top menu
- 2 Selecting from the sub menu
- 3 Changing the selected item
- 4 Exit




FixYourDLP.com

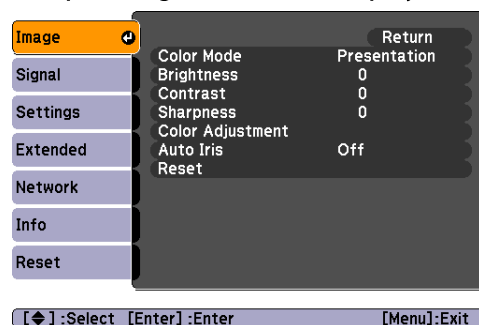
Discount-Merchant.com (020) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMP AND ACCESSORIES

Image Menu

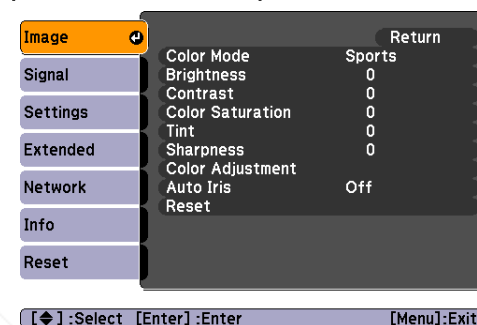
Items that can be set vary depending on the image signal and Source currently being projected as shown in the following screen shots. Setting details are saved for each image signal and Source.



Depending on the model used, some input sources are not supported.  [p.21](#)


Computer Signal/USB/USB Display/LAN



Component Video▶▶/Composite video▶▶/S-Video▶▶



Sub Menu	Function
Color Mode	You can select the quality of the image to suit your surroundings.  p.39
Brightness	You can adjust the image Brightness.
Contrast▶▶	You can adjust the difference between light and shade in the images.
Color Saturation	You can adjust the Color Saturation for the images.
Tint	(Adjustment is only possible when NTSC signals are being input if you use composite video/S-Video.) You can adjust the image Tint.
Sharpness	You can adjust the image sharpness.
Color Adjustment	You can make adjustments by choosing one of the following. (This item cannot be selected if the adjustment value of Color Mode is set to sRGB▶▶ from the Image menu .) Abs. Color Temp.: You can adjust the overall tint of the image. You can adjust tints in 10 stages from 5000 K to 10000 K. When a high value is selected the image becomes tinged with blue, when a low value is selected the image becomes tinged with red. Red, Green, Blue: You can adjust the saturation of each color individually.
Auto Iris	(This item is only displayed if the adjustment value of Color Mode is set to Dynamic or Theatre from the Image menu.) Set whether or not (On/Off) to adjust the iris to obtain the optimal light for the images.  p.40

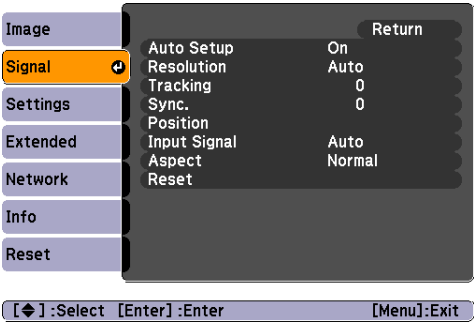
Sub Menu	Function
Reset	You can reset all adjustment values of the Image menu to their default settings. To return all menu items to their default settings, see  p.91

Signal Menu

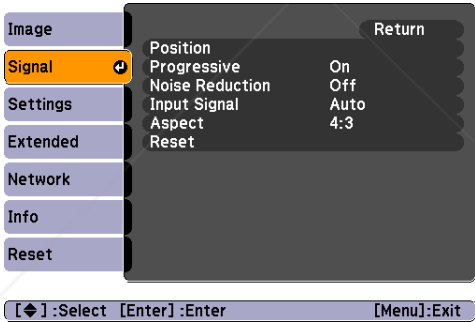
Items that can be set vary depending on the image signal currently being projected as shown in the following screen shots. Setting details are saved for each image signal.

You cannot make settings in the **Signal** menu when the input source is LAN.

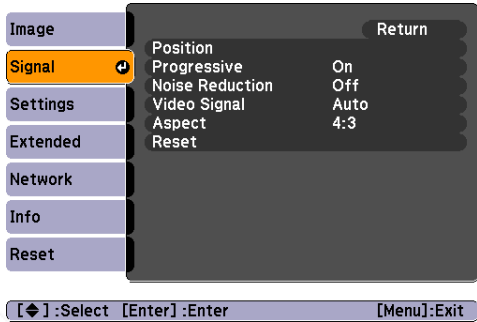
Computer image








Component Video



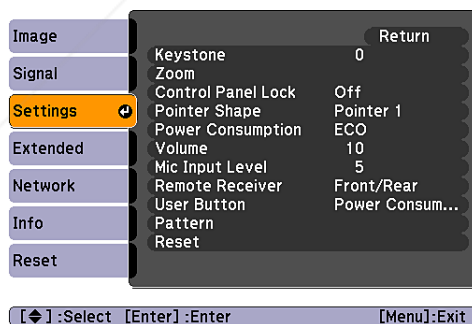
Composite video/S-Video
















Sub Menu	Function
Auto Setup	You can select whether or not (On/Off) to automatically adjust the image to the optimal state when the input signal changes.  p.100
Resolution	When set to Auto , the resolution of the input signal is automatically identified. If the images cannot be projected correctly when set to Auto , such as when some of the image is missing, adjust to Wide depending on the connected computer for wide screens, or set to Normal for 4:3 or 5:4 screens.
Tracking	You can adjust computer images when vertical stripes appear in the images.  p.100
Sync.	You can adjust computer images when flickering, fuzziness, or interference appear in the images.  p.100
Position	You can adjust the display Position up, down, left, and right when a part of the image is missing so that the whole image is projected.
Progressive	(Component Video can only be set when 480i/576i/1080i signals are being input) Off: IP conversion is carried out for each field in the screen. This is ideal for viewing images with a large amount of movement. Video: This is ideal for viewing general video images. Film/Auto: This is ideal for movie films, computer graphics, and animation.

Sub Menu	Function
Noise Reduction	Smoothes out rough images. There are two modes. Select your favorite setting. Set this to Off when viewing image sources in which noise is very low, such as DVDs.
Input Signal	You can select an input signal from Computer1/2 input port. If this is set to Auto , the input signal is set automatically depending on the connected equipment. If colors do not appear correctly when this is set to Auto , select the appropriate signal depending on the connected equipment.
Video Signal	You can select the input signal from the Video input port. If set to Auto , video signals are recognized automatically. If interference appears in the image or a problem occurs such as no image is being projected when set to Auto , select the appropriate signal depending on the connected equipment.
Aspect	You can set the <u>Aspect Ratio</u> for projected images.  p.41
Reset	You can reset all adjustment values in the Signal menu to their default settings, except for Input Signal . To return all menu items to their default settings, see  p.91

Settings Menu



Sub Menu	Function
Keystone	You can correct keystone distortion in the vertical direction.  Quick Start Guide
Zoom	You can adjust Tele/Wide.
Control Panel Lock	You can use this to restrict operation of the projector's Control panel.  p.52
Pointer Shape	You can select the shape of the pointer.  p.46 Pointer 1:  Pointer 2:  Pointer 3: 

Sub Menu	Function
Power Consumption	<p>You can set the Lamp brightness to one of two settings.</p> <p>Select ECO if the images being projected are too bright such as when projecting images in a dark room or onto a small screen. When ECO is selected, power consumption during projection and the lamp life change as follows, and fan rotation noise is reduced. Electrical consumption: about 25% decrease, lamp life: about 1.4 times longer</p>
Volume	You can adjust the Volume. Setting details are saved for each image signal.
Mic Input Level	Adjust this if the microphone input level is low and the microphone audio output from the projector's speaker is difficult to hear, or if the input level is too high, resulting in a crackling sound in the audio from the microphone. When Mic Input Level is turned down to 0, no microphone audio is output from the speaker.
Remote Receiver	<p>You can limit the reception of the operation signal from the Remote Control.</p> <p>When you want to prohibit operation by Remote Control, or if the Remote Receiver has a fluorescent light too close to it, you can make settings to deactivate the remote receiver you do not want to use or that is experiencing interference.</p>
User Button	<p>You can select the item from the Configuration Menu with the Remote Control's User Button. By pressing the User Button the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments. You can assign one of the following items to the User Button.</p> <p>Power Consumption, Info, Progressive, Test Pattern, Resolution, Mic Input Level, and Pattern Display</p>
Pattern	<p>Pattern Display: Display a pattern.</p> <p>Pattern Type: You can select from Patterns 1 to 4 or User Pattern. Patterns 1 to 4 display projection lines such as ruled lines or a grid.</p> <p>Pattern 1:  Pattern 2:  Pattern 3:  Pattern 4: </p> <p>User Pattern: Captures a user pattern.  p.70</p> <p>Test Pattern: When the projector is set up, a test pattern is displayed so that you can adjust the projection status without connecting equipment. While the Test Pattern is displayed, zoom, focus adjustments, and Keystone correction can be performed. To cancel the Test Pattern, press the [Esc] button on the Remote Control or the Control panel.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Attention</p> <p> If a pattern is displayed for a long time, a residual image may be visible in projected images.</p> </div>
Reset	<p>You can reset all adjustment values in the Settings Menu to their default settings, except for User Button.</p> <p>To return all menu items to their default settings, see  p.91</p>



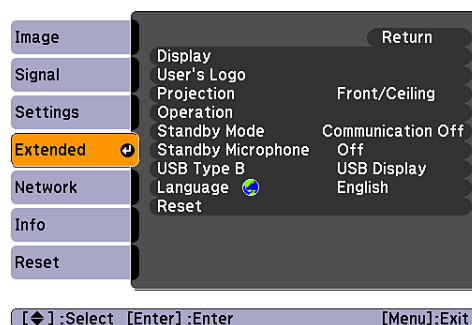
FixYourDLP.com
Sponsored by



a pattern is displayed for a long time, a residual image may be visible in projected images.





Discount Merchant.com (800) 281-8860


THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Extended Menu



Sub-menu	Function
Display	<p>You can make settings related to the projector's display.</p> <p>Messages: You can set whether or not (On/Off) to display the Source name when you change the Source, the Color Mode name when you change the Color Mode, a message when no image signal is input, and so on.</p> <p>Display Background*1: You can set the screen status for when no image signal is available to Black, Blue, or Logo.</p> <p>Startup Screen*1: You can set whether or not (On/Off) to display the startup screen (the image projected when starting the projector) at startup.</p> <p>A/V Mute*1: You can set the screen displayed during A/V Mute to Black, Blue, or Logo.</p>
User's Logo*1	You can change the User's Logo that is displayed as a background during Display Background, A/V Mute, and so on.  p.68
Projection	<p>You can set from the following according to the way the projector is setup.  p.20</p> <p>Front/Ceiling, Rear/Ceiling</p>
Operation	<p>Direct Power On: You can set whether or not (On/Off) to enable Direct Power On. When this is set to On and the power cable is plugged in, note that the projector turns automatically in cases such as a power outage being restored.</p> <p>Sleep Mode: When set to On, this automatically stops projection when no image signal is being input and no operations are carried out.</p> <p>Sleep Mode Timer: When Sleep Mode is set to On, you can set the time before the projector automatically turns off within a range of 1 to 30 minutes in one minute increments.</p> <p>High Altitude Mode: Set to On when using the projector above an altitude of 1500 m.</p>


Sub-menu	Function
Standby Mode	<p>You can use the following functions even when the projector is in standby mode if this is set to Communication On.</p> <ul style="list-style-type: none"> • Monitor and control the status of the projector over the network. • The microphone input function outputs audio from the projector's speaker when a microphone is connected to the Microphone (Mic) input port. <p>You can use SNMP or the application software "EasyMP Monitor" supplied with this product to monitor and control the status of the projector over the network.</p> <p>The microphone input is also enabled if this setting is set to Communication On and Standby Microphone is set to On.</p>
Standby Microphone	<p>(Only available when the Standby Mode mentioned above is set to Communication On)</p> <p>When Standby Mode is set to Communication On, set whether microphone input is enabled (On) or disabled (Off).*2</p>
USB Type B	<p>Set this to USB Display when the projector and a computer are connected with a USB cable and computer images are projected.  Quick Start Guide</p> <p>Set this to Wireless Mouse when the mouse pointer is to be operated by the remote control.  p.48</p> <p>Set this to Off when using only Easy Interactive Function (EB-460i/450Wi only).  p.54</p>
Language	You can set the Language to use for displaying messages and menus.
Reset	<p>You can return the adjustment values for Display*1 and Operation*3 in the Extended menu to their default settings.</p> <p>To return all menu items to their default settings, see  p.91</p>

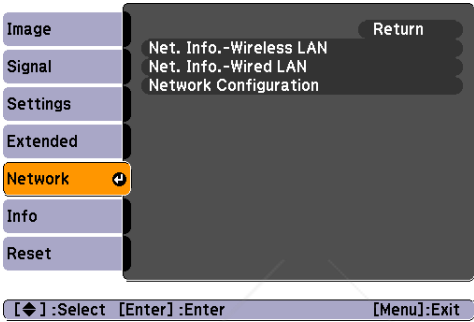
*1 When **User's Logo Protect** in **Password Protect** is set to **On**, settings related to User's Logo cannot be changed. You can make changes after setting **User's Logo Protect** to **Off**.  [p.50](#)

*2 When **Power On Protect** in **Password Protect** is set to **On**, microphone input is not possible even when **Standby Microphone** is set to **On**.

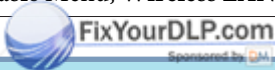
*3 Except for "High Altitude Mode".

Network Menu

When **Network Protect** in **Password Protect** is set to **On**, a message is displayed and the settings cannot be changed. You can make changes after setting **Network Protect** to **Off**.  [p.50](#)



Sub-menu	Function
Network Information	<div>You can confirm the setting status for each network as follows.</div> <div><div><div>Image</div><div>Signal</div><div>Settings</div><div>Extended</div><div>Network</div><div>Info</div><div>Reset</div></div><div><div>[Net. Info. - Wired LAN]</div><div>Projector Name</div><div>DHCP</div><div>IP Address</div><div>Subnet Mask</div><div>Gateway Address</div><div>MAC Address</div></div><div><div>Return</div></div></div> <div><div>[Esc] /[Enter] :Return</div><div>[Menu]:Exit</div></div> <div><div><div>Image</div><div>Signal</div><div>Settings</div><div>Extended</div><div>Network</div><div>Info</div><div>Reset</div></div><div><div>[Net. Info. - Wireless LAN]</div><div>Connection Mode</div><div>Antenna Level</div><div>Projector Name</div><div>SSID</div><div>DHCP</div><div>IP Address</div><div>Subnet Mask</div><div>Gateway Address</div><div>MAC Address</div></div><div><div>Return</div></div></div> <div><div>[Esc] /[Enter] :Return</div><div>[Menu]:Exit</div></div>

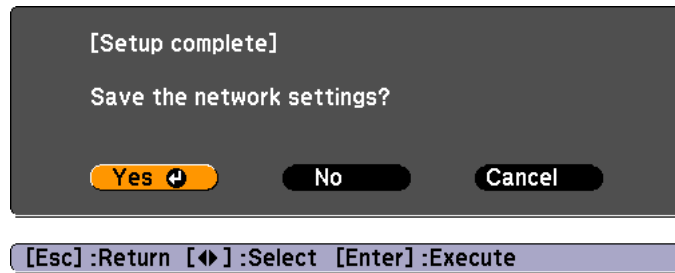


By using the Web browser of a computer connected to the projector on a network, you can set the functions and control the projector. This function is called Web Control. You can easily enter text using a keyboard to make settings for Web Control such as Security settings.  [p.63](#)

Notes on using the Network menu

Select items from the top menu and sub menus and change selected items in the same way as in the Configuration Menu.

However, when you have finished, make sure you select the **Setup complete** menu, and select one of **Yes**, **No**, or **Cancel**. When you select **Yes** or **No**, you return to the Configuration Menu.



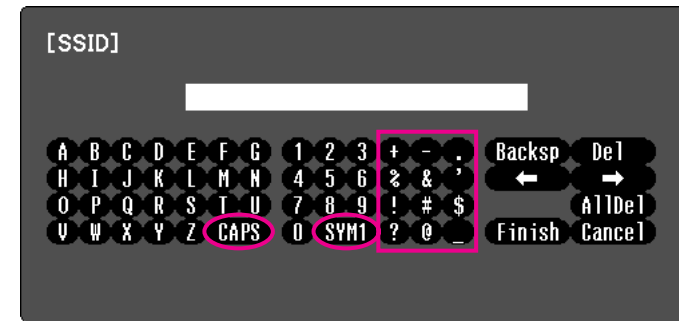
Yes: Saves the settings and closes the Network menu.

No: Does not save the settings and closes the Network menu.

Cancel: Continues displaying the Network menu.

Soft keyboard operations

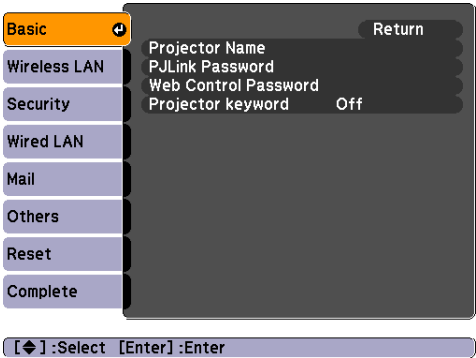
The Network menu contains items that require you to enter alphanumeric characters when you set them. In this case, the following software keyboard is displayed. Use the [Up], [Down], [Left], and [Right] buttons on the Remote Control or the [Z], [X], [C], and [V] buttons on the Control panel to move the cursor to the desired key, and then press the [Enter] button to enter the alphanumeric. Enter fi by holding down the [Num] button on the Remote Control, and pressing the numeric buttons. After inputting, press [Finish] on the keyboard to confirm your input. Press [Cancel] on the keyboard to cancel your input.






Each time the [CAPS] key is selected, it sets and changes between upper case and lower case letters.

Each time the [SYM1/2] key is selected, it sets and changes the symbol keys for the section enclosed by the frame.

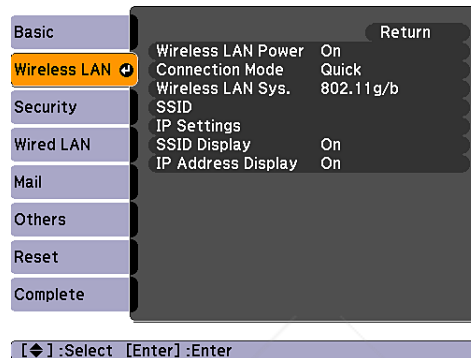
Basic Menu



Sub Menu	Function
Projector Name	Displays the projector name used to identify the projector when connected to a Network. When editing, you can enter up to 16 single-byte alphanumeric characters.
PJLink Password	Set a Password to use when you access the projector using compatible PJLink software.  p.123 You can enter up to 32 single-byte alphanumeric characters.
Web Control Password	Set a password to use when making settings and controlling the projector using Web Control. You can enter up to 8 single-byte alphanumeric characters. Web Control is a computer function that allows you to set up and control the projector by using the Web browser on a computer connected on a Network.  p.63
Projector Keyword	When this is set to On , you are requested to enter the Keyword when you attempt to connect the projector and a computer via a network. As a result, EasyMP Network Projection can prevent presentations from being interrupted by unscheduled connections from a computer during projection. Normally, set this to On .  EasyMP Network Projection Operation Guide "Connecting to a Projector on a Network and Projecting"

Wireless LAN Menu

Settings are enabled when the optional Wireless LAN unit is installed.

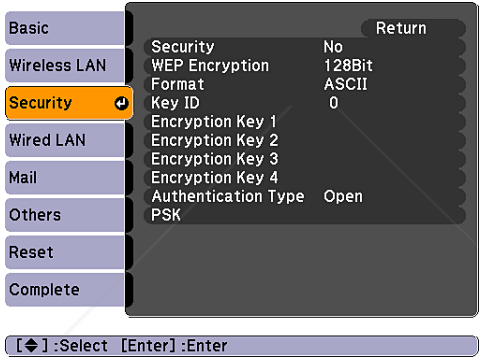


Sub Menu	Function
Wireless LAN Power	Set this to On when connecting the projector and a computer via a wireless LAN. If you do not want to connect via a wireless LAN, set this to Off to prevent unauthorized access by others. This is set to On by default.
Connection Mode	Use EasyMP Network Projection to set the mode, how the computer connect to the projector. Set this to Quick Connection Mode when you want to make a simple wireless connection. Set this to Advanced Connection Mode when you want to connect to a network system via an access point.
Wireless LAN system	Sets the Wireless LAN system.
SSID ▶▶	Enter an SSID. When an SSID is provided for the wireless LAN system in which the projector will participate, enter the SSID. You can enter up to 32 single-byte alphanumeric characters.
IP Settings	You can make settings related to the following addresses. <u>DHCP</u> ▶▶: Set whether or not (On/Off) to use DHCP. If this is set to On , you cannot set any more addresses. <u>IP Address</u> ▶▶: You can input the IP Address assigned to the projector. You can input a number from 0 to 255 in each field of the address. However, the following IP Addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) <u>Subnet Mask</u> ▶▶: You can input the Subnet Mask for the projector. You can input a number from 0 to 255 in each field of the address. However, the following Subnet Masks cannot be used. 0.0.0.0, 255.255.255.255 <u>Gateway Address</u> ▶▶: You can input the IP Address for the gateway for the projector. You can input a number from 0 to 255 in each field of the address. However, the following Gateway Addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)

Sub Menu	Function
SSID Display	To prevent the SSID from being displayed on Network Info in the Network menu and on the LAN Standby screen, set this to Off .
IP Address Display	To prevent the IP address from being displayed on Network Info in the Network Menu and on the LAN Standby screen, set this to Off .

Security menu

Settings are enabled when the optional Wireless LAN unit is installed.



Sub-menu	Function
Security	<p>Select one type of security from the following items.</p> <p>When setting security, follow the instructions from the administrator of the network system you are about to access. When using Advanced Connection Mode, be sure to make security settings.</p> <p>WEP: An encryption key (WEP key) is used to encrypt data. This mechanism prevents communication unless the encryption keys for the access point and the projector match.</p> <p>WPA/WPA2: This is an encryption standard that improves security, which is considered a weak point of WEP. Although there are multiple kinds of WPA encryption methods, this projector uses "TKIP" and "AES".</p> <p>WPA2 also includes user authentication functions. WPA authentication provides two methods: using an authentication server, or authenticating between a computer and an access point without a using server. This projector supports the latter method, without a server.</p>


When WEP is selected

You can set the following items.

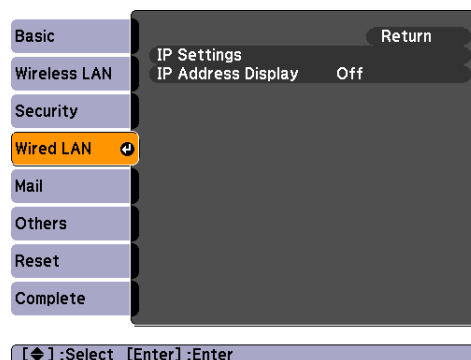
Sub Menu	Function
WEP encryption	You can set the encryption method for WEP encryption. 128bit: Uses 128 (104) bit encoding 64bit: Uses 64 (40) bit encoding
Format	You can set the input method for the WEP encryption key. ASCII: Input in text. HEX: Input in HEX (hexadecimal).
Key ID	You can select the WEP encryption ID key.
Encryption key 1 Encryption key 2 Encryption key 3 Encryption key 4	You can enter the key used for WEP encryption. Enter the key in single-byte characters, following the instructions from the network administrator for the network in which the projector will participate. The type and number of characters that can be entered differ depending on the WEP encryption and Format settings. If the number of characters you enter is shorter than the required character length, or if the number of characters you enter is longer than the required character length, it does not connect. 128bit - ASCII: Single-byte alphanumeric characters, 13 characters. 64bit - ASCII: Single-byte alphanumeric characters, 5 characters. 128bit - HEX: 0 to 9 and A to F, 26 characters 64bit - HEX: 0 to 9 and A to F, 10 characters
Authentication Type	Set the WEP authentication type. Open: Uses open system authentication. Shared: Uses shared key authentication.

When WPA-PSK (TKIP) or WPA2-PSK (AES) is selected

You can set the following items


Sub Menu	Function
PSK	You can enter a PreSharedKey (encrypted key) in single-byte alphanumeric characters. Enter at least 8 and up to 63 characters. When you enter the PreSharedKey, and press the [Enter] button, the setting value is displayed as asterisks (*). You cannot enter more than 32 characters in the Configuration Menu. If you want to set more than 32 characters, make the setting from Web Control.  p.63

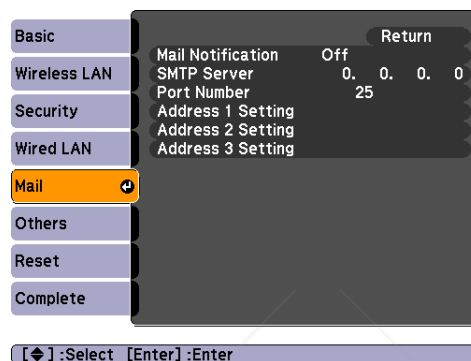
Wired LAN menu



Sub Menu	Function
IP Settings	<p>You can make settings related to the following addresses.</p> <p><u>DHCP</u>▶▶: Select whether or not (On/Off) to use DHCP. If this is set to On, you cannot set any more addresses.</p> <p><u>IP Address</u>▶▶: You can input the IP address assigned to the projector. You can input a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)</p> <p><u>Subnet Mask</u>▶▶: You can input the subnet mask for the projector. You can input a number from 0 to 255 in each field of the address. However, the following subnet masks cannot be used. 0.0.0.0, 255.255.255.255</p> <p><u>Gateway Address</u>▶▶: You can input the IP address of the gateway for the projector. You can input a number from 0 to 255 in each field of the address. However, the following gateway addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)</p>
IP Address Display	To prevent the IP address from being displayed on Network Info in the Network Menu and on the LAN Standby screen, set this to Off .

Mail menu

When this is set, you receive an e-mail notification if a problem or warning occurs in the projector. For information on the contents of the sent Mail, see "Reading Error Notification Mail"  p.106



Sub Menu	Function
Mail Notification	You can set whether or not (On/Off) to be notified by mail.
SMTP Server	You can input the <u>IP address</u> of the SMTP Server used by the projector. You can input a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
Port Number	You can input the Port Number for the SMTP Server. The default value is 25. You can input numbers between 1 to 65535.
Address 1 Setting Address 2 Setting Address 3 Setting	Enter the Email Address and the contents of the email to receive notification when an error or warning occurs in the projector. You can enter up to 32 characters for the mail address. You can select multiple problems or warnings to be notified about by Mail. You can also change each Email Address.



If you set **Standby Mode** to **Communication On** from the **Extended** menu in the Configuration Menu of the projector, you can perform monitoring even if the projector is in a standby (when the power is off).



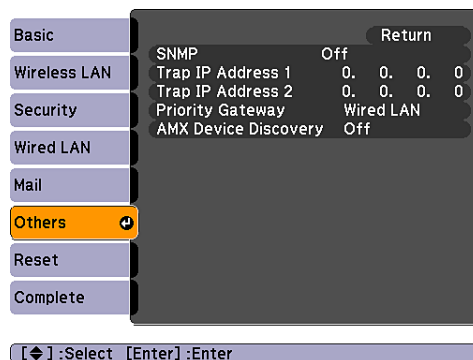
FixYourDLP.com

Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

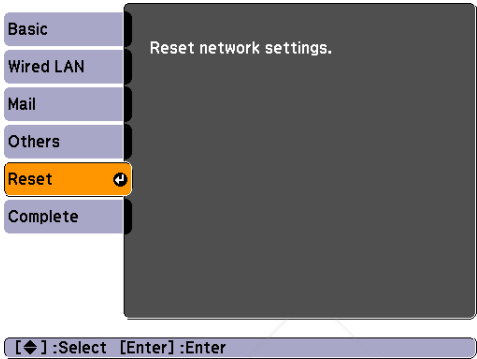
Others Menu



Sub-menu	Function
SNMP	Set whether or not (On/Off) to use SNMP.
Trap IP Address 1 Trap IP Address 2	<p>You can register up to two IP addresses for the <u>SNMP</u> trap notification destination.</p> <p>You can input a number from 0 to 255 in each field of the address.</p> <p>However, the following IP addresses cannot be used.</p> <p>127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)</p> <p>To use SNMP to monitor the projector, the SNMP manager program needs to be installed on your computer. Make sure management by SNMP is performed by the network administrator.</p>
Priority gateway	For the priority gateway, select either wireless or wired.
<u>AMX Device Discovery</u>	When the projector is connected to a network, set this to On when you want to allow the projector to be detected by AMX Device Discovery. Set this to Off if you are not connected to an environment controlled with a controller from AMX or AMX Device Discovery.

Reset Menu

Resets all of the network settings.



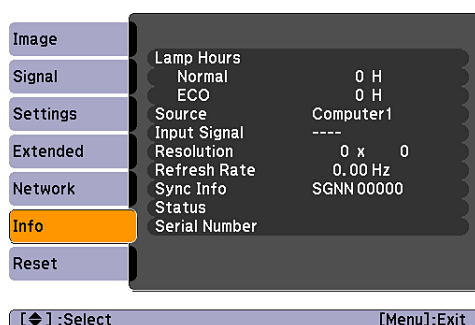
Sub Menu	Function
Reset network settings.	To reset all of the Network settings, select Yes . After you reset all of the settings, the Basic menu is displayed.

Info Menu (Display Only)

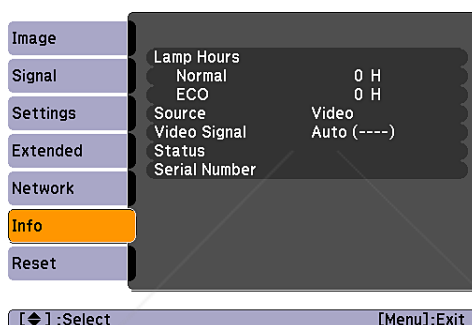
Lets you check the status of the image signals being projected and the status of the projector. Items that can be displayed vary depending on the image signal and Source currently being projected as shown in the following screen shots. Depending on the model used, some input sources are not supported.

☞ p.21

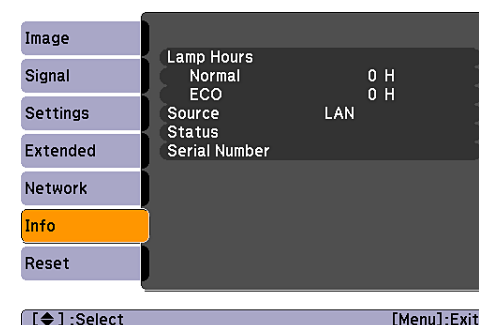
Computer Signal/Component Video▶/USB/USB
Display



Composite video▶/S-Video▶



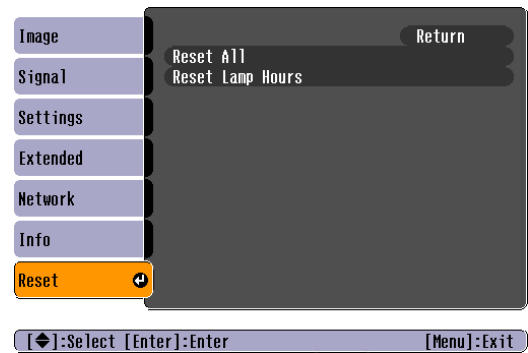
LAN



Sub-menu	Function
Lamp Hours	You can display the cumulative lamp operating time*. When it reaches the lamp warning time, the characters are displayed in yellow.
Source	You can display the Source name for the connected equipment currently being projected.
Input Signal	You can display the settings of Input Signal in the Signal menu depending on the Source .
Resolution	You can display the input resolution.
Video Signal	You can display the settings of Video Signal in the Signal menu.
Refresh Rate▶	You can display the refresh rate.
Sync Info	You can display the image signal Information. This information may be needed if service is required.
Status	This information is about errors that have occurred with the projector. It may be needed if service is required.
Serial Number	Displays the projector's serial number.

* The cumulative use time is displayed as "0H" for the first 10 hours. 10 hours and above is displayed in 1hour steps as "10 H", "11H", and so on.

Reset Menu



Sub Menu	Function
Reset All	You can reset all items in the Configuration Menu to their default settings. The following items are not reset to their defaults: Input Signal , User's Logo , all items in the Network menu, Lamp Hours , and Language .
Reset Lamp Hours	You can clear the cumulative lamp hours, and return it to "0H". Reset this when you replace the lamp.



Troubleshooting

This chapter explains how to identify problems and what to do if a problem is found.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

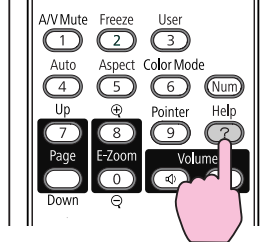
If a problem occurs with the projector, the Help screen is displayed to assist you by pressing the [Help] button. You can solve problems by answering the questions.

Procedure

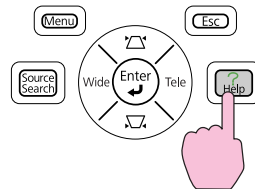
1 Press the [Help] button.

The Help screen is displayed.

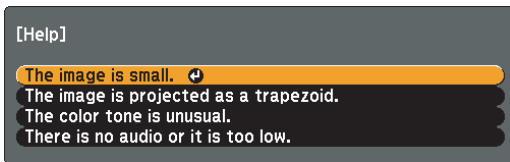
Using Remote Control



Using Control panel

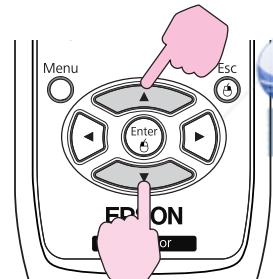


2 Select a menu item.

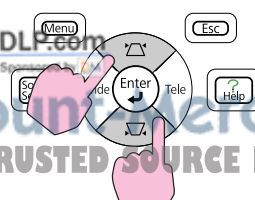


[Left Arrow] :Select [Enter] :Enter [Help] :Exit

Using Remote Control



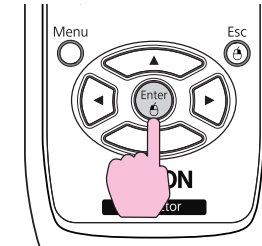
Using Control panel



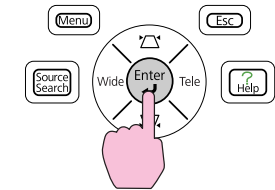
3

Confirm the selection.

Using Remote Control



Using Control panel



Questions and solutions are displayed as shown on the screen below.
Press the [Help] button to exit the Help.

The image is small.

- ❓ Is zoom set to minimum?
·Use the zoom ring to change the size of the image.
- ❓ Is the projector too close to the screen?
·Move the projector away from the screen.

[Esc] :Return

[Help] :Exit



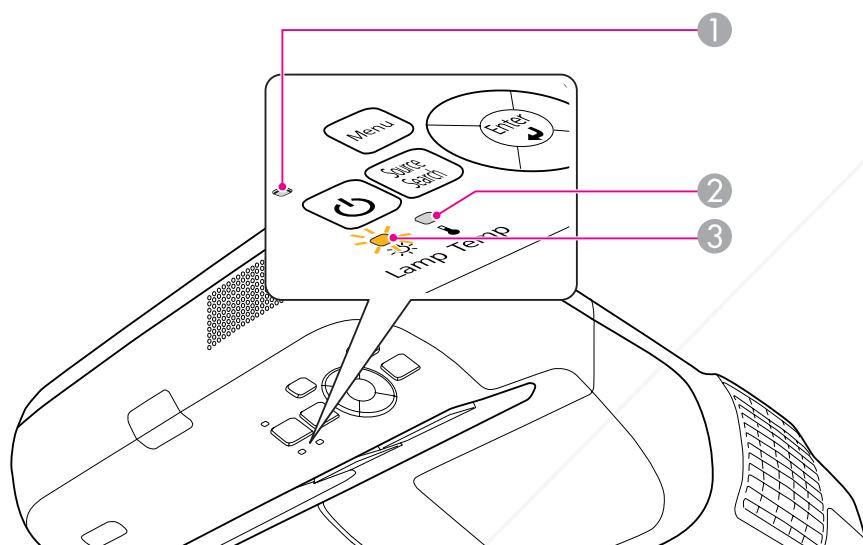
If the Help function does not provide a solution to the problem, see "Problem Solving" p.94.

If you are having a problem with the projector, first check the projector's indicators and see "Reading the Indicators".





If the indicators do not show clearly what the problem might be, see "When the Indicators Provide No Help". [p.97](#)

Reading the Indicators

The projector is provided with the following three indicators that indicate the status of the projector.



① Indicates the operating status.

-  Standby condition
When the [⏻] button is pressed in this status, projection starts.
-  Preparing for network monitoring or cool down in progress
Buttons are disabled while the indicator is flashing.
-  Warming up
Warm-up time is about 30 seconds. After warm-up is complete, the indicator stops flashing.
-  Projecting

② Indicates the internal temperature status.

③ Indicates the lamp status.



























See the following table for the status of indicators and how to resolve the problems.

If all indicators are off, the power cable is not connected correctly or the power is not being supplied normally.





Sometimes, when the power cable is unplugged, the [⏻] indicator remains lit for a short period, but this is not a fault.













⏻ indicator is lit or flashing red

■ : Lit ■■■ : Flashing □ : Off

Status	Cause	Remedy or Status
  	Internal Error	Stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Support and Service Guide.  Epson Projector Contact List
  	Fan Error Sensor Error	Stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Support and Service Guide.  Epson Projector Contact List
  	High Temp Error (overheating)	<p>The lamp turns off automatically and projection stops. Wait for approximately five minutes. After approximately five minutes the projector switches to standby mode, so check the following two points.</p> <ul style="list-style-type: none"> • Check that the air filter and air exhaust vent are not blocked, and that the projector is not positioned against a wall. • If the air filter is clogged, clean or replace it.  p.108, p.114 <p>If the error continues after checking the points above, stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Support and Service Guide.  Epson Projector Contact List</p> <p>When using the projector at an altitude of 1500 m or more, set High Altitude Mode to On.  p.78</p>
  	Lamp Error Lamp Failure	<p>Check the following two points.</p> <ul style="list-style-type: none"> • Take out the lamp and check whether it is cracked.  p.111 • Clean the air filter.  p.108 <p>If it is not cracked: Reinstall the lamp and turn on the power.</p> <p>If the error continues: Replace the lamp with a new one and then turn on the power.</p> <p>If the error continues: Stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Support and Service Guide.  Epson Projector Contact List</p> <p>If it is cracked: Replace it with a new lamp, or contact your local dealer for further advice. If replacing the lamp yourself, be careful to avoid pieces of broken glass (you cannot continue projecting until the lamp is replaced).  Epson Projector Contact List</p> <p>When using the projector at an altitude of 1500 m or more, set High Altitude Mode to On.  p.78</p>
  	Auto Iris Error Power Error (Fast)	Stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Support and Service Guide.  Epson Projector Contact List

⚙️ **Indicator is flashing or lit orange**

 : Lit
  : Flashing
  : Off
  : Varies according to the projector status

Status	Cause	Remedy or Status
     	High Temp Warning	(This is not an abnormality. However, if the temperature rises too high again, projection stops automatically.) <ul style="list-style-type: none"> • Check that the air filter and air exhaust vent are not blocked, and that the projector is not positioned against a wall. • If the air filter is clogged, clean or replace it. ➡ p.108, p.114
     	Replace Lamp	Replace it with a new lamp. ➡ p.111 If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may blow increases. Replace it with a new lamp as soon as possible.



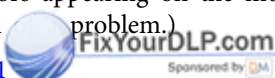
- If the projector is not operating properly, even though the indicators are all showing normal, refer to "When the Indicators Provide No Help" [p.97](#).
- If the error is not indicated in this table, stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Support and Service Guide. ➡ [Epson Projector Contact List](#)

When the Indicators Provide No Help

If any of the following problems occur and the indicators do not offer a solution, refer to the pages given for each problem.

Problems relating to images

- "No images appear" 🖱️ p.98
Projection does not start, the projection area is completely black, the projection area is completely blue, and so on.
- "Moving images are not displayed" 🖱️ p.98
Moving images played back from a computer appear black and the images are not projected.
- "Projection stops automatically" 🖱️ p.98
- "The message "Not supported" is displayed." 🖱️ p.99
- "The message "No Signal" is displayed." 🖱️ p.99
- "Images are fuzzy or out of focus" 🖱️ p.99
- "Interference or distortion appear in images" 🖱️ p.100
Problems such as interference, distortion, or black & white checked patterns appear.
- "The image is truncated (large) or small, or the aspect is not suitable" 🖱️ p.100
Only part of the image is displayed, or the height and width ratios of the image are not correct, and so on.
- "Image colors are not right" 🖱️ p.101
The whole image appears purplish or greenish, images are black and white, colors appear dull, and so on. (Computer monitors and LCD screens have different color reproduction performance, so the colors in images projected by the projector and the colors appearing on the monitor may not always match, but this is not a sign problem.)
- "Images appear dark" 🖱️ p.101

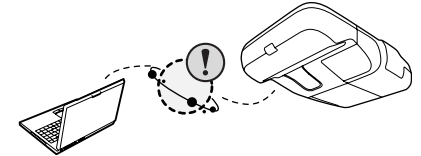


Problems when projection starts

- "The projector does not turn on" 🖱️ p.102

Problems relating to monitoring and control

"Mail is not received even if an error occurs with the projector" 🖱️ p.102

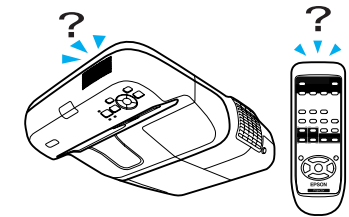


Problems relating to Easy Interactive Function

- "The message "Hardware device not found." is displayed." 🖱️ p.103
- "Easy Interactive Pen does not work" 🖱️ p.103
- "Flashing dots do not appear even if calibration is started" 🖱️ p.104
- "The dots do not change from flashing to always lit." 🖱️ p.104
- "The dots change from flashing to always lit automatically" 🖱️ p.104

Other problems

- "No sound can be heard or the sound is faint" 🖱️ p.104
- "No sound can be heard from the microphone" 🖱️ p.105
- "The remote control does not work" 🖱️ p.105
- "I want to change the language for messages and menus" 🖱️ p.105



Problems relating to images

No images appear

Check	Remedy
Did you press the [⏻] button?	Press the [⏻] button to turn the power on.
Are all of the indicators off?	The power cable is not connected correctly or power is not being supplied normally. Check that your electrical outlet or power source is functioning correctly. If the lamp cover or the lamp are not installed correctly, the lamp does not turn on. Check that the lamp cover and lamp are securely installed. 🖱️ p.111
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mute. 🖱️ p.40
Are the Configuration Menu settings correct?	Try to reset all of the settings. 🖱️ Reset Menu - Reset All p.91
Is the projected image completely black? Only when projecting computer images	Some input images, such as screen savers, may be completely black.
Is the image signal format setting correct? Only when projecting images from a video source	Change the setting according to the signal for the connected equipment. 🖱️ Signal Menu - Video Signal p.75

Moving images are not displayed

Check	Remedy
Is the computer's image signal being output to the LCD and the monitor? Only when projecting images from a laptop computer or a computer with a built-in LCD screen	Change the image signal to external output only. 🖱️ See the documentation supplied with the computer or contact the maker of the computer.

Projection stops automatically





Check	Remedy
Is Sleep Mode set to On ?	Press the [⏻] button to turn the power on. If you do not want to use Sleep Mode, change the setting to Off . 🖱️ Extended Menu - Operation - Sleep Mode p.78




Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES





The message "Not supported" is displayed.




Check	Remedy
Is the image signal format setting correct? Only when projecting images from a video source	Change the setting according to the signal for the connected equipment.  Signal Menu - Video Signal p.75
Do the image signal resolution and refresh rate correspond to the mode? Only when projecting computer images	See the documentation supplied with the computer for how to change the image signal resolution and refresh rate output from the computer.  "List of Supported Resolutions" p.119

The message "No Signal" is displayed.






Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connected.  Quick Start Guide
Is the correct input port selected?	Change the image by pressing the [Source Search] button on the remote control or the control panel.  p.21
Is the power for the computer or video source turned on?	Turn the power on for the equipment.
Are the image signals being output to the projector? Only when projecting images from a laptop computer or a computer with a built-in LCD screen	If the image signals are only being output to the computer's LCD monitor or accessory monitor, change the output so that the image signals are also output externally. With some computer models, when the image signals are output externally, the images no longer appear on the LCD monitor or accessory monitor.  Computer's documentation, under a title such as "External output" or "Connecting an external monitor". If the connection is made while the power of the projector or computer is already turned on, the function [Fn] key that changes the computer's image signal to external output may not work. Turn the power for the computer and the projector off and then back on again.

Images are fuzzy or out of focus






Check	Remedy
Is the focus adjusted correctly?	Adjust the focus with the focus lever.  Quick Start Guide
Is the projector at the correct distance? 	Is it projecting outside of the recommended projection distance range? Setup within the recommended range.  p.117
Is the Keystone adjustment value too large?	Lower the projection angle to reduce the amount of keystone correction.  Quick Start Guide
Has condensation formed on the lens?	If the projector is suddenly taken from a cold environment to a warm environment, or if sudden ambient temperature changes occur, condensation may form on the surface of the lens, and this may cause the images to appear fuzzy. Set the projector up in the room about one hour before it is used. If condensation forms on the lens, turn the projector off and wait for the condensation to disappear.

Check	Remedy
Is a wide-panel computer image being projected? Only when projecting computer images	Change the setting according to the signal for the connected equipment.  Signal menu - Resolution p.75
Is the correct resolution selected? Only when projecting computer images	Set the computer so that the signals being output are compatible with the projector.  "List of Supported Resolutions" p.119  Computer's documentation

Interference or distortion appear in images

Check	Remedy
Is the image signal format setting correct? Only when projecting images from a video source	Change the setting according to the signal for the connected equipment.  Signal Menu - Video Signal p.75
Are the cables connected correctly?	Check that all the cables required for projection are securely connected.  <i>Quick Start Guide</i>
Is an extension cable being used?	If an extension cable is used, electrical interference may affect the signals. Use the cables supplied with the projector to check if the cables you are using may be causing the problem.
Is the correct resolution selected? Only when projecting computer images	Set the computer so that the signals being output are compatible with the projector.  "List of Supported Resolutions" p.119  Computer's documentation
Are the "Sync." and "Tracking" settings adjusted correctly? Only when projecting computer images	Press the [Auto] button on the remote control or the [Enter] button on the control panel to perform automatic adjustment. If the images are not adjusted correctly even after performing automatic adjustment, you can also make adjustments with Sync. and Tracking in the Configuration Menu.  Signal Menu - Tracking and Sync. p.75

The image is truncated (large) or small, or the aspect is not suitable

Check	Remedy
Is a wide panel computer image being projected? Only when projecting computer images	Change the setting according to the signal for the connected equipment.  Signal menu - Resolution p.75
Is the image still enlarged by E-Zoom? 	Press the [Esc] button on the remote control to cancel E-Zoom.  p.47
Is the display position adjusted correctly? 	Press the [Auto] button on the remote control or the [Enter] button on the control panel to perform automatic adjustment while a computer image is being projected. If the images are not adjusted correctly even after performing automatic adjustment, you can also make adjustments using Position from the Configuration Menu. When projecting signals other than computer image signals, make adjustments with Position in the Configuration Menu.  Signal Menu - Position p.75

















Check	Remedy
Is the computer set for dual display? Only when projecting computer images	If dual display is activated in "Display Properties" from the computer's Control panel, only approximately half of the image on the computer screen is projected. To display the entire image on the computer screen, turn off the dual display setting.  Computer's video driver documentation
Is the correct resolution selected? Only when projecting computer images	Set the computer so that the signals being output are compatible with the projector.  "List of Supported Resolutions" p.119  Computer's documentation

Image colors are not right






Check	Remedy
Do the input signal settings match the signals from the connected device?	Change the following settings according to the signal for the connected equipment. When the image is from equipment connected to the Computer input port  Signal menu - Input Signal p.75 When the image is from equipment connected to the Video or S-Video input port  Signal menu - Video Signal p.75
Is the image brightness adjusted correctly?	Adjust Brightness in the Configuration Menu.  Image menu - Brightness p.74
Are the cables connected correctly?	Check that all the cables required for projection are securely connected.  <i>Quick Start Guide</i>
Is Contrast  adjusted correctly?	Adjust the Contrast in the Configuration Menu.  Image Menu - Contrast p.74
Is color adjustment set to an appropriate value?	Adjust Color Adjustment in the Configuration Menu.  Image Menu - Color Adjustment p.74
Are the color saturation and tint adjusted correctly? Only when projecting images from a video source	Adjust Color Saturation and Tint in the Configuration Menu.  Image Menu - Color Saturation and Tint p.74

Images appear dark

Check	Remedy
Is the image brightness set correctly?	Adjust Brightness and Power Consumption from the Configuration Menu.  Image Menu - Brightness p.74  Settings Menu - Power Consumption p.76
Is the contrast  adjusted correctly?	Adjust Contrast from the Configuration Menu.  Image Menu - Contrast p.74
Is it time to replace the lamp?	When the lamp is nearly ready for replacement, the images become darker and the color quality declines. Replace the lamp with a new one.  p.111



Problems when projection starts



The projector does not turn on

Check	Remedy
Did you press the [⏻] button?	Press the [⏻] button to turn the power on.
Are all of the indicators off?	<p>The power cable is not connected correctly or power is not being supplied. Disconnect and then reconnect the power cable.  Quick Start Guide</p> <p>Check the breaker and so on to ensure power is being supplied.</p> <p>If the lamp cover or the lamp are not installed correctly, the lamp will not turn on. Check that the lamp cover and lamp are installed properly.  p.111</p>
Do the indicators turn on and off when the power cable is touched?	There is probably a poor contact in the power cable, or the power cable may be defective. Reinsert the power cable. If this does not solve the problem, stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Support and Service Guide.  Epson Projector Contact List
Is Control Panel Lock set to Full Lock ?	Press the [⏻] button on the remote control. If you do not want to use Control Panel Lock , change the setting to Off .  Settings Menu - Control Panel Lock p.52
Is the correct setting for the remote receiver selected?	Check the Remote Receiver setting from the Configuration Menu.  Settings Menu - Remote Receiver p.76

Problems relating to monitoring and control

Mail is not received even if an error occurs with the projector

Check	Remedy
Is the Wireless LAN unit installed? For wireless LAN	Check that the optional Wireless LAN unit is installed in the projector properly.
Is the network cable connected correctly? For wired LAN	Check that the network cable is connected correctly. Reconnect it if it is not connected or not connected properly.
Are the network connection settings correct?	Check the projector's network settings.  p.80
Is Standby Mode set to Communication On ?	To use Mail Notification when the projector is in a standby state, set Standby Mode to Communication On from the Configuration Menu.  Extended menu - Standby Mode p.78

Check	Remedy
Did a fatal error occur and the projector come to a sudden stop?	If the projector comes to a sudden stop, mail cannot be sent. If, after checking the projector, the error state cannot be resolved, 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 your electrical outlet or power source is functioning correctly.
Is Mail Notification set correctly from the Configuration Menu?	Error notification mail is sent in accordance with the setting of the Mail menu from the Configuration Menu. Check if it is set correctly.  Network menu - Mail menu p.87

Problems relating to Easy Interactive Function

The message "Hardware device not found." is displayed.

Check	Remedy
The projector and computer are not connected correctly.	Check the USB cable connections. You may be able to resolve the problem by disconnecting and then reconnecting the USB cable.
An antivirus program may be blocking use of the port.	Disable the antivirus program and then restart Easy Interactive Function.
If you are using a notebook computer when the battery power is running low, the USB port may stop working and you might not be able to use USB devices.	Connect the power cable of the computer to an electrical outlet.

Easy Interactive Pen does not work

Check	Remedy
An object is blocking the path for sending the signal from the Easy Interactive Pen to the projector.	Move the object. Also, make sure you are not blocking the signal path when you stand in front of the projection surface.
There is insufficient battery power.	Replace the batteries.
The surroundings are too bright.	Make sure there is no strong light shining on the projection surface or the Easy Interactive Function receiver.
The projector and computer are not connected.	Check that the projector and computer are connected correctly.



FixYourDLP.com

Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Flashing dots do not appear even if calibration is started

Check	Remedy
The computer screen is being redisplayed.	End all applications such as Flash animations that redisplay the screen and then restart Easy Interactive Function.
The dots are not displayed if the projector is not detected by the computer.	Check that the projector and computer are connected correctly and then restart Easy Interactive Function.

The dots do not change from flashing to always lit.




Check	Remedy
The projector surface information cannot be received accurately because there is another light source nearby.	Move the light source away from the projector or change the installation location of the projector.
The projector surface information cannot be received accurately if the projector position is too close to the projection surface.	Check the installation position of the projector.

The dots change from flashing to always lit automatically


Check	Remedy
The Easy Interactive Pen has been disabled because the surrounding light source state is unstable.	Change the installation position of the projector or turn off the light source.

Other problems






No sound can be heard or the sound is faint

Check	Remedy
Is the audio source connected correctly?	Disconnect the cable from the Audio port, and then reconnect the cable.
Is the volume adjusted to the minimum setting?	Adjust the volume so that sound can be heard.  p.76  Quick Start Guide
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mute.  p.40
Is the audio cable's specification "No resistance"?	When using a commercially available audio cable, make sure it is labeled "No resistance".


No sound can be heard from the microphone

Check	Remedy
Is the microphone connected correctly?	Disconnect the cable from the Microphone (Mic) input port, and then reconnect the cable.
Is the Mic Input Volume turned down too low?	Adjust the Mic Input Volume so that sound can be heard.  Settings Menu - Mic Input Level p.76

The remote control does not work

Check	Remedy
Is the remote control light-emitting area pointing towards the remote receiver on the projector during operation?	Point the remote control towards the remote receiver during operation. Operating range  <i>Quick Start Guide</i>
Is the remote control too far from the projector?	The operating range for the remote control is about 6 m.  <i>Quick Start Guide</i>
Is direct sunlight or strong light from fluorescent lamps shining onto the remote receiver?	Set the projector up in a location where strong light does not shine onto the remote receiver. Alternatively, set the remote receiver affected by light to Off from Remote Receiver in the Configuration Menu.  Settings Menu - Remote Receiver p.76
Is the remote receiver set correctly?	Check the Remote Receiver setting from the Configuration Menu.  Settings Menu - Remote Receiver p.76
Are the batteries dead or have the batteries been inserted in the wrong direction?	Insert new batteries in the correct direction.  p.110

I want to change the language for messages and menus

Check	Remedy
Change the language setting.	Change the Language setting from the Configuration Menu.  p.78


When the Mail Notification function is set to **On** and a problem/warning occurs in the projector, the following e-mail will be sent.

Subject: EPSON Projector

Line 1: The name of the projector where the problem occurred

Line 2: The IP Address set for the projector where the problem has occurred.

Line 3 and on: Details of the problem

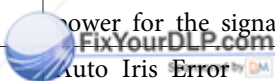
The details of the problem are listed line by line. The following table shows the details that are given in the message for each item. To deal with problems/warnings, see ["Reading the Indicators"](#).  [p.94](#)

Message	Cause
Internal error	Internal Error
Fan related error	Fan Error
Sensor error	Sensor Error
Lamp timer failure	Lamp Failure
Lamp out	Lamp Error
Internal temperature error	High Temp Error (Overheating)
High-speed cooling in progress	High Temp Warning
Lamp replacement notification	Replace Lamp
No-signal	No Signal No Signal is input to the projector. Check the connection status or check that the power for the signal source is turned on.
Auto Iris Error	Auto Iris Error
Power Err. (Ballast)	Power Err. (Ballast)

A (+) or (-) appears at the start of the message.

(+): A projector problem has occurred

(-): A projector problem has been dealt with



Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



Appendix

This chapter provides information on maintenance procedures to ensure the best level of performance from the projector for a long time to come.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Clean the projector if it becomes dirty or if the quality of the projected images starts to deteriorate.

Cleaning the Projector's Surface

Clean the projector's surface by wiping it gently with a soft cloth.

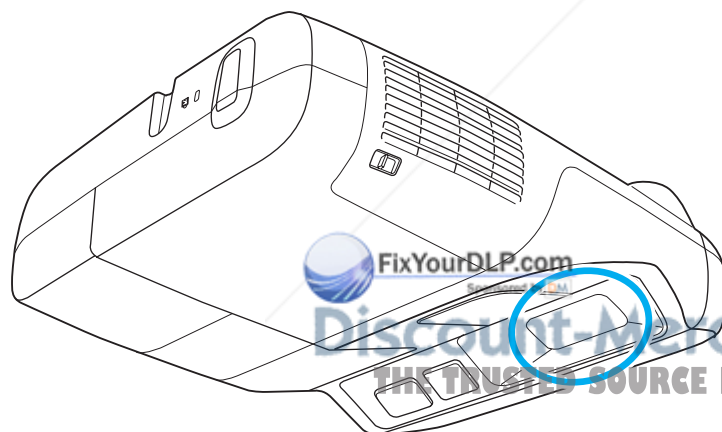
If the projector is particularly dirty, moisten the cloth with water containing a small amount of neutral detergent, and then firmly wring the cloth dry before using it to wipe the projector's surface.

Attention

Do not use volatile substances such as wax, alcohol, or thinner to clean the projector's surface. The quality of the case may change or become discolored.

Cleaning the Projection Window

Use a commercially available cloth for cleaning glasses to gently wipe off dirt from the projection window.



Warning

Do not use sprays that contain flammable gas to remove dirt and dust from the lens. The projector may catch fire because of the high temperature of the lamp inside the projector.

Attention

Do not rub the lens with harsh materials or subject the lens to shocks, as it can easily become damaged.

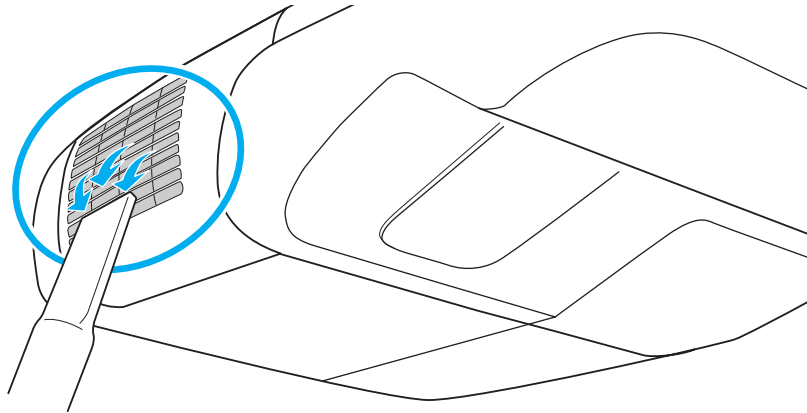
Cleaning the Air Filter

Clean the air filter and the air intake vent when the following message is displayed.

"The projector is overheating. Make sure nothing is blocking the air vent, and clean or replace the air filter".

Attention

- *Dust collecting on the air filter may cause the internal temperature of the projector to rise, leading to a malfunction or early deterioration of optical parts. If the message is displayed, clean the air filter as soon as possible.*
- *Do not rinse the air filter in water. Do not use detergents or solvents.*



- If the message is displayed frequently even after cleaning, it is time to replace the air filter. Replace it with a new air filter.
👉 [p.114](#)
- It is recommended that you clean these parts at least once every three months. Clean them more often than this if you are using the projector in a particularly dusty environment.



FixYourDLP.com

Sponsored by 

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

This section explains how to replace the remote control batteries, lamp, and air filter.

Replacing the Remote Control Batteries

If the remote control becomes unresponsive or inoperable after it has been used for some time, the batteries may have reached the end of their service life. When this happens, replace them with new batteries. Obtain two AA size manganese or alkaline batteries. Batteries other than AA size manganese or alkaline batteries cannot be used.

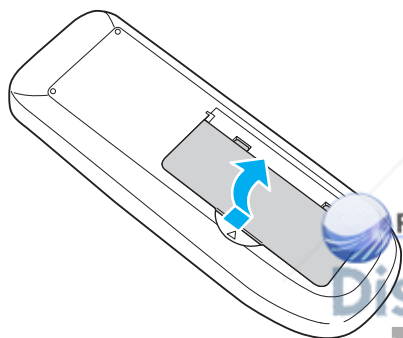
Attention

Make sure you read the separate Safety Instructions before handling the batteries.  Safety Instructions

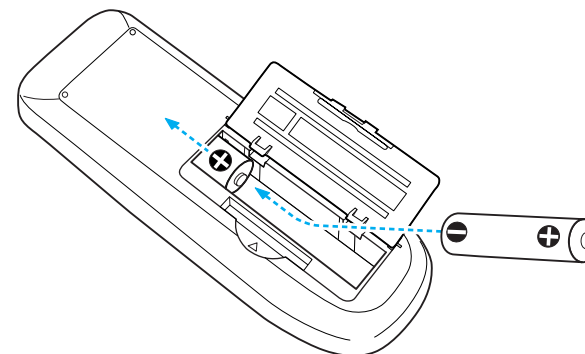
Procedure

1 Remove the battery cover.

While pushing the battery compartment cover catch, lift the cover up.



2 Replace the old batteries with new batteries.



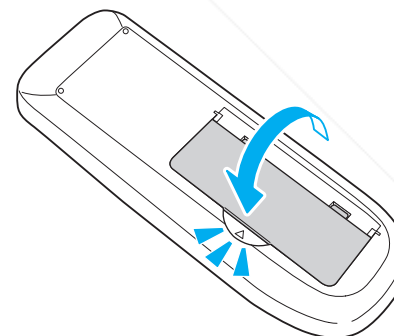
Caution

Check the positions of the (+) and (-) marks inside the battery holder to ensure the batteries are inserted the correct way.



3 Replace the battery cover.

Press the battery compartment cover until it clicks into place.



FixYourDLP.com
Sponsored by 

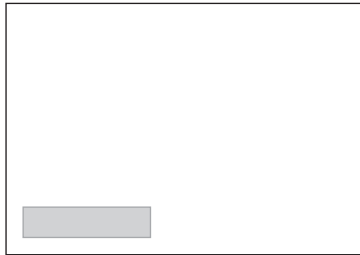
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Replacing the Lamp

Lamp replacement period

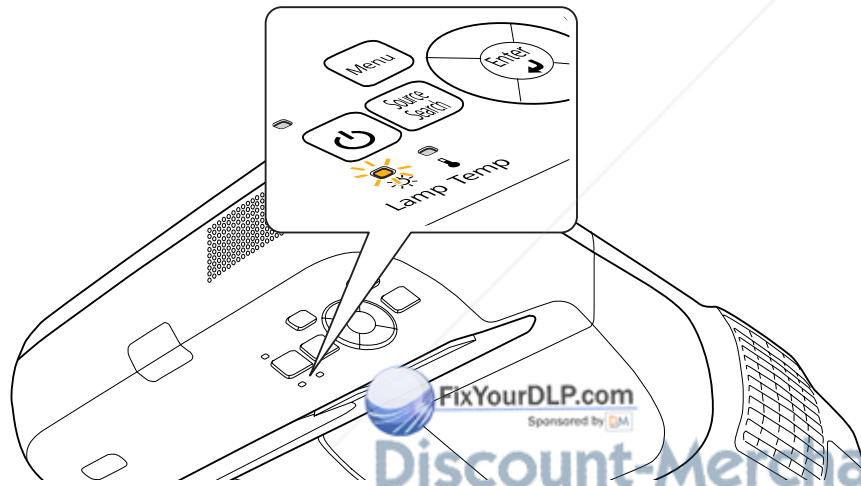
It is time to replace the lamp when:

- The message "Replace the lamp." is displayed when you start projecting.



A message is displayed.

- The lamp indicator flashes orange.



- The projected image gets darker or starts to deteriorate.

Attention

- The lamp replacement message is set to appear after the following time periods in order to maintain the initial brightness and quality of the projected images.

 [p.76](#)

When **Power Consumption** is set to **Normal**: About 2400 hours

When **Power Consumption** is set to **ECO**: About 3400 hours

- If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may blow increases. When the lamp replacement message is displayed, replace the lamp with a new one as soon as possible, even if it is still working.
- Depending on the individual characteristics of the lamp and the way it has been used, the lamp may become darker or stop working before the message is displayed. We recommend having a spare lamp ready in case it is needed.

How to replace the Lamp



Warning

- When replacing the lamp because it has stopped working, there is a possibility that the lamp may be cracked. If replacing the lamp of a projector which has been installed on a wall or ceiling, you should always assume that the lamp is broken, and you should stand to the side of the Lamp cover, not underneath it. Also, remove the lamp cover gently. There is the risk of small pieces of glass falling when you open the lamp cover. If this happens, see a doctor immediately.
- Never disassemble or modify a lamp. If a modified or disassembled lamp is installed in the projector and used, it could cause a fire, electric shock, or an accident.



Caution

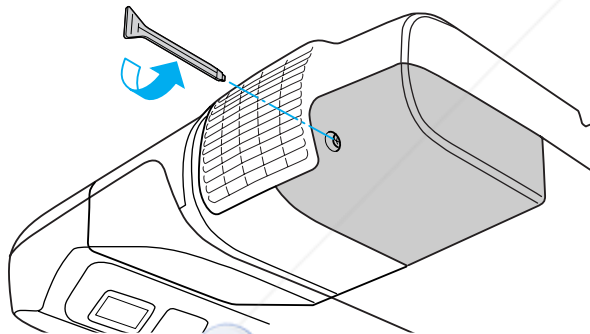
Wait until the lamp has cooled down sufficiently before removing the lamp cover. If the lamp is still hot, burns or other injuries may result. It takes approximately one hour after the power has been turned off for the lamp to sufficiently cool down.

Procedure

1 After you turn off the projector's power and the confirmation buzzer beeps twice, disconnect the power cable.

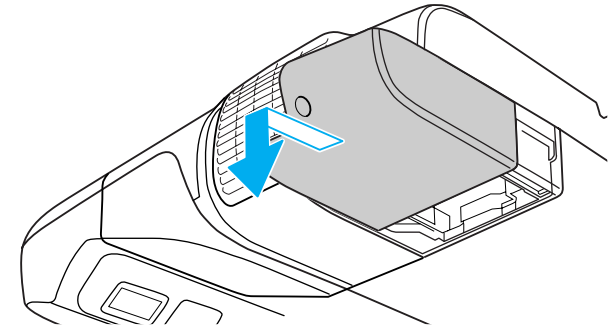
2 Wait until the lamp has sufficiently cooled down, and then remove the lamp cover at the top of the projector.

Loosen the lamp cover fixing screw with the screwdriver supplied with the new lamp unit or a Phillips (+) screwdriver. Then slide the lamp cover straight forward and lift to remove it.



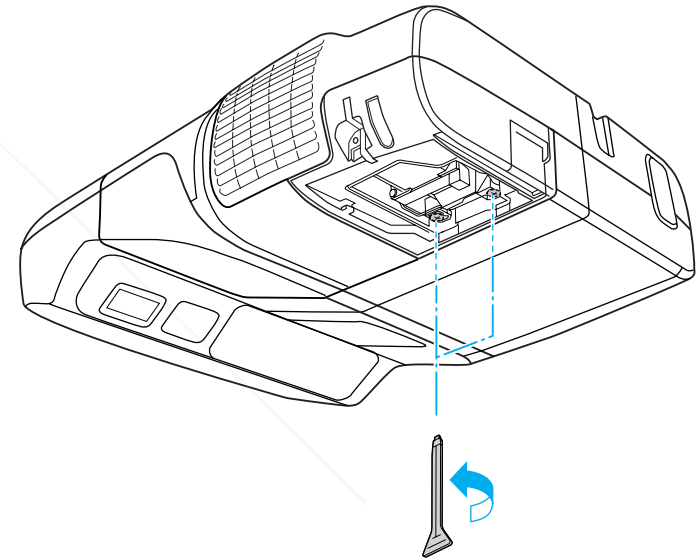
FixYourDLP.com
Sponsored by DLP

Discount-Merchant.com (800) 281-8881
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



3

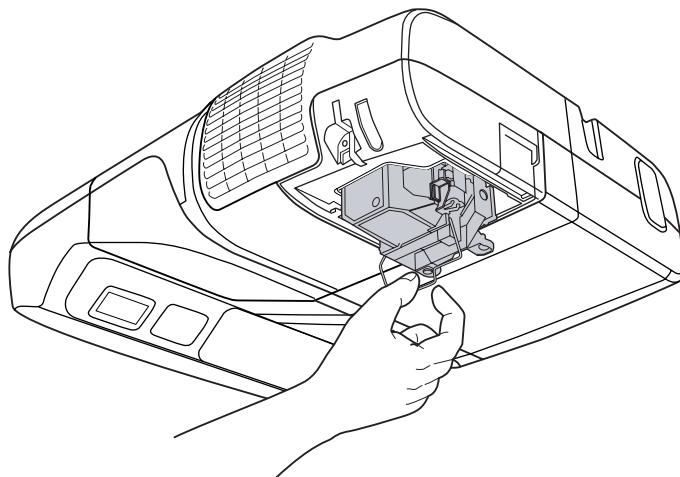
Loosen the two lamp fixing screws.



4

Remove the old lamp by pulling the handle.

If the lamp is cracked, replace it with a new lamp or contact your local dealer for further advice. [Epson Projector Contact List](#)

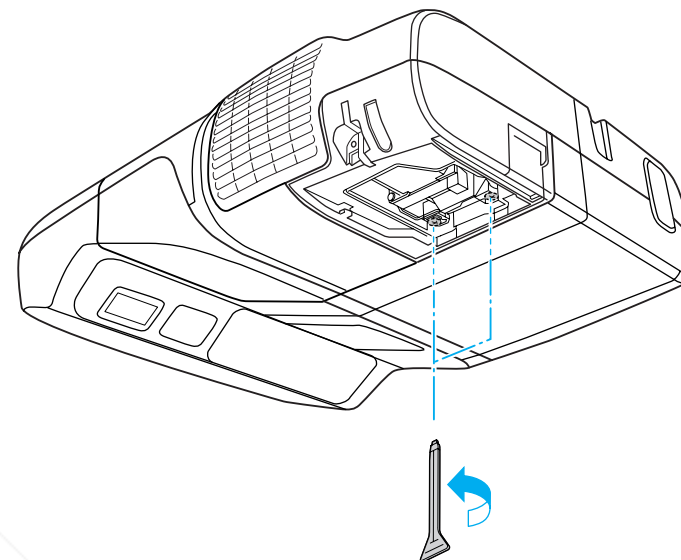
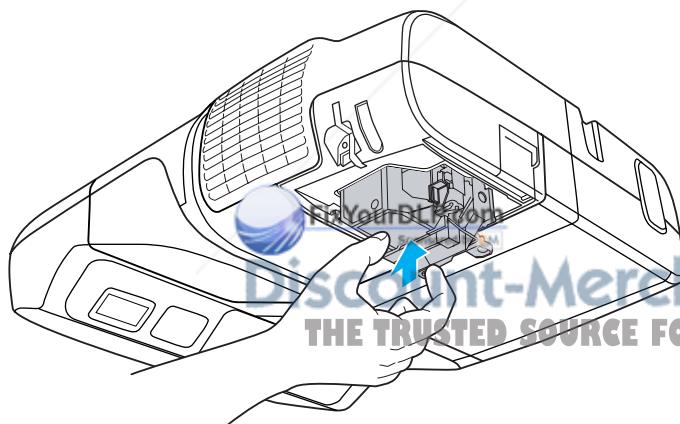


5

Install the new lamp.

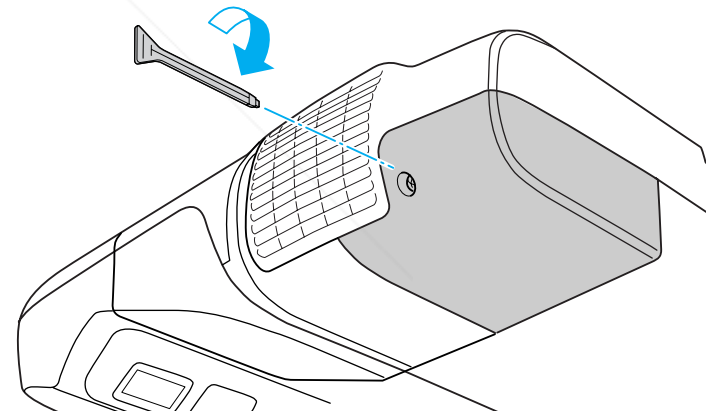
Insert the new lamp along the guide rail in the correct direction so that it fits in place, push down firmly at the location marked "PUSH", and once it is fully inserted tighten the two screws. Press the replacement lamp in by the handle until it clicks into place.

Push the replacement lamp inside the projector by the handle until it clicks into place.



6

Attach the lamp cover.



Attention

- Install the lamp securely. If the lamp cover is removed, the power turns off automatically as a safety precaution. If the lamp or the lamp cover is not installed correctly, the lamp does not turn on.
- This product includes a lamp component that contains mercury (Hg). Please consult your local regulations regarding disposal or recycling. Do not dispose of it with normal waste.

Resetting the Lamp Hours

The projector records how long the lamp is on and a message and indicator notify you when it is time to replace the lamp. After replacing the lamp, reset the time accumulated for Lamp Hours in the Configuration Menu.

🖱️ [p.91](#)



Only reset Lamp Hours after the lamp has been replaced. Otherwise the lamp replacement period is not indicated correctly.

Replacing the Air Filter

Air filter replacement period

It is time to replace the air filter when:

- There is a tear in the air filter.
- The message is displayed frequently even though the air filter has been cleaned.



FixYourDLP.com
Sponsored by DM

Discount-Merchant.com (800) 222-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

How to replace the air filter

Procedure

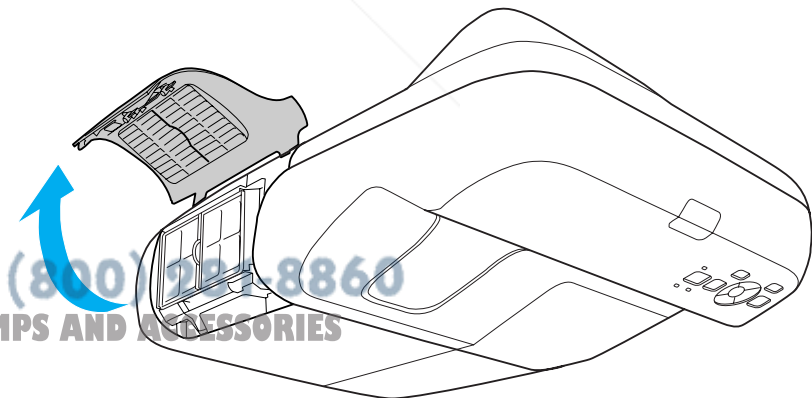
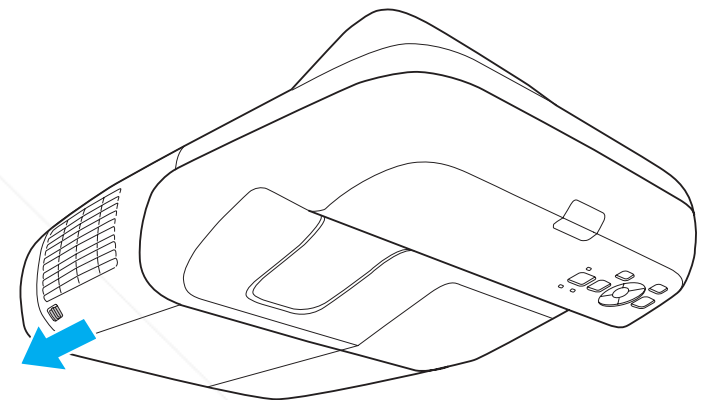
1

After you turn off the projector's power and the confirmation buzzer beeps twice, disconnect the power cable.

2

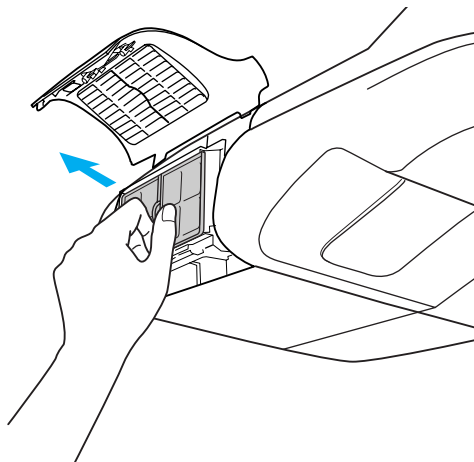
Open the air filter cover.

Slide the air filter cover open/close lever horizontally, and open the air filter cover.



3**Remove the air filter.**

Grip the tab in the center of the air filter, and pull the air filter straight out.



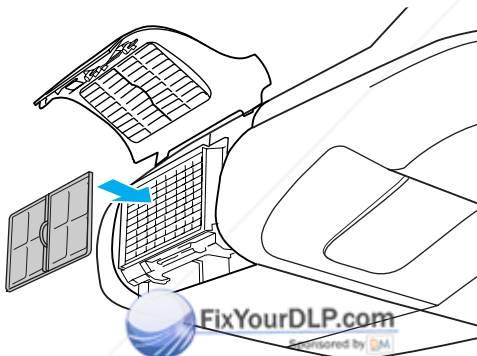
Dispose of used air filters properly in accordance with your local regulations.

Material of the frame part: ABS

Material of the filter part: Polyurethane foam

4**Install the new air filter.**

Press until it clicks into place.

**5****Close the air filter cover.**

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

The following optional accessories and consumables are available. Please purchase these products as and when needed. The following list of optional accessories and consumables is current as of: 2010.01. Details of accessories are subject to change without notice and availability may vary depending on the country of purchase.

Optional accessories

Computer cable ELPKC02

(1.8 m - for mini D-Sub15-pin/mini D-Sub 15pin)

This is the same as the computer cable supplied with the projector.

Computer cable ELPKC09

(3 m - for mini D-Sub15-pin/mini D-Sub 15pin)

Computer cable ELPKC10

(20 m - for mini D-Sub15-pin/mini D-Sub 15pin)


These are extension cables for when the computer cable supplied with the projector is too short.

Component video cable ELPKC19

(3 m - for mini D-Sub 15-pin/RCA male×3)


Use to connect a [Component Video](#) source.

Document Camera ELPDC06

Use when projecting books, OHP documents, or slides.  "Connecting USB devices" [p.34](#)

Wireless LAN unit ELPAP03

Use when connecting the projector to a computer wirelessly and projecting.

 "Installing the Wireless LAN Unit"

Quick Wireless Connection USB Key ELPAP05

Use this key to connect to a Windows computer and project images from the computer. However, the projector needs to be connected to a network before it can be used.

Consumables

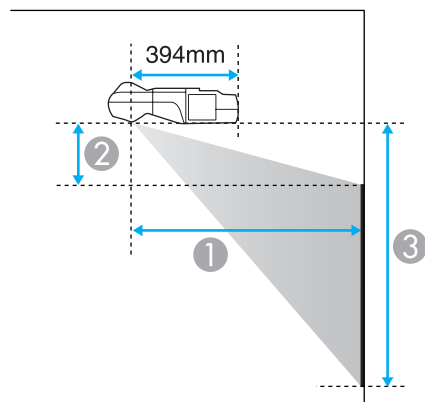
Lamp unit ELPLP57

Use as a replacement for a used lamp.  "Replacing the Lamp" [p.111](#)

Air filter ELPAF27

Use as a replacement for a used air filter.  "Replacing the Air Filter" [p.114](#)

To find the appropriate screen size, see the following table to setup the projector. Values are just reference.



- ① Projection distance
- ② Height from the bottom edge of the projector to the top edge of the screen
- ③ Height from the bottom edge of the projector to the bottom edge of the screen

Projection Distance (EB-460i/460)

Units: cm

4:3 Screen Size		Minimum (Wide) to Maximum (Tele)		
		①	②	③
63"	128x96	47 - 63	9 - 31	105 - 127
70"	142x107	52 - 71	11 - 35	118 - 142
80"	163x122	60	13	135
90"	183x137	67	16	153
102"	207x155	76	18	174

Units: cm

16:9 Screen Size		Minimum (Wide) to Maximum (Tele)		
		①	②	③
58"	128x72	47 - 64	21 - 31	94 - 128

16:9 Screen Size		Minimum (Wide) to Maximum (Tele)		
		①	②	③
65"	144x81	53 - 71	25 - 36	106 - 144
70"	155x87	57	27	114
80"	177x100	65	32	131
90"	199x112	73	36	148
93"	206x116	76	37	153

Unit: cm

16:10 Screen Size		Minimum (Wide) to Maximum (Tele)		
		①	②	③
60"	129x81	47 - 64	18 - 32	98 - 129
70"	151x94	55 - 75	21 - 38	116 - 151
80"	172x108	63	25	133
90"	194x121	71	29	150
96"	207x129	76	31	160

Projection Distance (EB-450Wi/450W/440W)

Unit: cm

16:10 Screen Size		Minimum (Wide) to Maximum (Tele)		
		①	②	③
60"	129x81	47 - 64	18 - 40	98 - 120
70"	151x94	55 - 75	21 - 47	116 - 141
80"	172x108	63	25	133
90"	194x121	71	29	150
96"	207x129	76	31	160

Unit: cm

4:3 Screen Size		Minimum (Wide) to Maximum (Tele)		
		①	②	③
53"	108x81	47 - 64	18 - 40	98 - 120
55"	112x84	49 - 66	18 - 41	102 - 125
60"	122x91	53 - 73	21 - 46	112 - 137
70"	142x107	63	25	132
80"	163x122	72	29	151
85"	173x130	76	31	161

Unit: cm

16:9 Screen Size		Minimum (Wide) to Maximum (Tele)		
		①	②	③
58"	128x72	47 - 64	21 - 39	94 - 120
65"	144x81	53 - 71	25 - 45	106 - 135
70"	155x87	57	27	114
80"	177x100	65	32	131
90"	199x112	73	36	148
93"	206x116	76	37	153



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Supported Monitor Displays (EB-460i/460)

Computer signals (analog RGB)

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	60/72/75/85	640x480
SVGA	56/60/72/75/85	800x600
XGA	60/70/75/85	1024x768
WXGA	60	1280x768
	60	1360x768
	60/75/85	1280x800
WXGA+	60/75/85	1440x900
SXGA	70/75/85	1152x864
	60/75/85	1280x1024
	60/75/85	1280x960
SXGA+	60/75	1400x1050
UXGA	60	1600x1200
MAC13"	67	640x480
MAC16"	75	832x624
MAC19"	75	1024x768
	59	1024x768
MAC21"	75	1152x870

Images may also be projected when signals other than the above are input. However, some functions may be limited.

Component Video

Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV (480i)	60	720x480
SDTV(576i)	50	720x576
SDTV(480p)	60	720x480
SDTV(576p)	50	720x576
HDTV(720p)	50/60	1280x720
HDTV(1080i)	50/60	1920x1080

Composite Video/S-Video


Signal	Refresh Rate (Hz)	Resolution (dots)
TV (NTSC)	60	720x480
TV(PAL, SECAM)	50/60	720x576

Supported Monitor Displays (EB-450Wi/450W/440W)

Computer signals (analog RGB)

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	60/72/75/85	640x480
SVGA	56/60/72/75/85	800x600
XGA	60/70/75/85	1024x768
WXGA	60	1280x768
	60	1360x768
	60/75/85	1280x800

Signal	Refresh Rate (Hz)	Resolution (dots)
WXGA+	60/75/85	1440x900
WSXGA+*	60	1680x1050
SXGA	70/75/85	1152x864
	60/75/85	1280x1024
	60/75/85	1280x960
SXGA+	60/75	1400x1050
UXGA	60	1600x1200
MAC13"	67	640x480
MAC16"	75	832x624
MAC19"	75	1024x768
	59	1024x768
MAC21"	75	1152x870

* Only compatible when **Wide** is selected as the **Resolution** from the Configuration Menu.  [p.75](#)

Images may also be projected when signals other than the above are input. However, some functions may be limited.

Composite Video/S-Video

Signal	Refresh Rate (Hz)	Resolution (dots)
TV(NTSC)	60	720x480
TV(PAL, SECAM)	50/60	720x576

Component Video

Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV(480i)	60	720x480
SDTV(576i)	50	720x576
SDTV(480p)	60	720x480
SDTV(576p)	50	720x576
HDTV(720p)	50/60	1280x720
HDTV(1080i)	50/60	1920x1080



FixYourDLP.com

Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Command List

When the power ON command is transmitted to the projector, the power turns on and it enters warm-up mode. When the projector's power has turned on, a colon ":" (3Ah) is returned.

When a command is input, the projector executes the command and returns a ":", and then accepts the next command.

If the command being processed terminates abnormally, an error message is output and a ":" is returned.

Item			Command
Power ON/OFF	On		PWR ON
	Off		PWR OFF
Signal selection	Computer1	Auto	SOURCE 1F
		RGB	SOURCE 11
		Component	SOURCE 14
	Computer2	Auto	SOURCE 2F
		RGB	SOURCE 21
		Component	SOURCE 24
	Video		SOURCE 41
	S-Video		SOURCE 42
	USB Display		SOURCE 51
	USB		SOURCE 52
	LAN		SOURCE 53
A/V Mute On/Off	On		MUTE ON
	Off		MUTE OFF
A/V Mute selection	Black		MSEL 00
	Blue		MSEL 01

Item	Command
Logo	MSEL 02

Add a Carriage Return (CR) code (0Dh) to the end of each command and transmit.



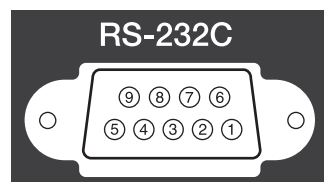
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Cable Layouts

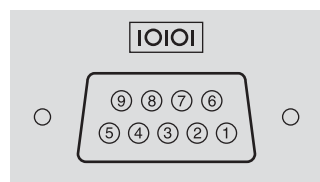
Serial Connection

- Connector shape: D-Sub 9-pin (male)
- Projector input port name: RS-232C

<At the projector>



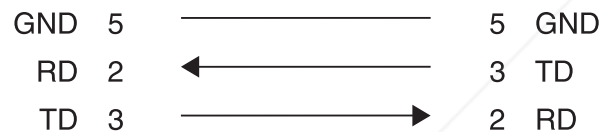
<At the computer>



<At the projector>

(PC serial cable)

<At the computer>



Signal Name	Function
GND	Signal wire ground
TD	Transmit data
RD	Receive data

- Data length: 8 bit
- Parity: None
- Stop-bit: 1 bit
- Flow control: None

FixYourDLP.com
Sponsored by DLP

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Communications protocol

- Default baud rate setting: 9600 bps

PJLink Class1 was established by the JBMIA (Japan Business Machine and Information System Industries Association) as a standard protocol for controlling network-compatible projector's as part of their efforts to standardize projector control protocols.

The projector complies with the PJLink Class1 standard established by the JBMIA.

It complies with all commands except for the following commands defined by PJLink Class1, and agreement was confirmed by the PJLink standard adaptability verification.

URL:<http://pjlink.jbmia.or.jp/english/>

• Non-compatible commands

Function		PJLink Command
Mute settings	Image muting set	AVMT 11
	Audio muting set	AVMT 21

• Input names defined by PJLink and corresponding projector sources

Source	PJLink Command
Computer1	INPT 11
Computer2	INPT 12
Video	INPT 21
S-Video	INPT 22
USB	INPT 41
LAN	INPT 52
USB Display	INPT 53

- Manufacturer name displayed for "Manufacture name information query"
EPSON

- Model name displayed for "Product name information query"

EB-460i

EB-460

EB-450Wi

EB-450W

EB-440W



FixYourLP.com
Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Projector General Specifications

Product name		EB-460i	EB-460	EB-450Wi	EB-450W	EB-440W
Dimensions		369 (W) × 155 (H) × 483 (D) mm				
Panel size		0.63"		0.59" Wide		
Display method		Polysilicon TFT active matrix				
Resolution		786,432 XGA (1024 (W) × 768 (H) dots) × 3		1,024,000 pixels WXGA (1280 (W) × 800 (H) dots) × 3		
Focus adjustment		Manual				
Zoom adjustment		Digital (1-1.35)				
Lamp		UHE lamp, 230 W, Model No.: ELPLP57				
Max. audio output		10 W monaural				
Speaker		1				
Power supply		100 to 240 V AC ±10%, 50/60 Hz 3.7 to 1.6 A				
Power consumption	100 to 120 V area	Standby power consumption (Communication On): 10.0 W Standby power consumption (Communication Off): 0.3 W				
	220 to 240 V area	Standby power consumption (Communication On): 12.0 W Standby power consumption (Communication Off): 0.3 W				
Operating altitude		Altitude 0 to 2,286 m				
Operating temperature		+5 to +35°C (No condensation)				
Storage temperature		-10 to +60°C (No condensation)				
Mass	Without Slide Plate	Approx. 5.8 kg	Approx. 5.7 kg	Approx. 5.8 kg	Approx. 5.7 kg	
	With Slide Plate	Approx. 6.3 kg	Approx. 6.2 kg	Approx. 6.3 kg	Approx. 6.2 kg	

Connectors	Computer1 input port	1	Mini D-Sub 15-pin (female) blue
	Computer2 input port	1	Mini D-Sub 15-pin (female) blue
	Audio1 port	1	Stereo mini jack
	Audio2 port	1	Stereo mini jack
	Video input port	1	RCA pin jack
	S-Video input port	1	Mini DIN 4-pin
	Audio-L/R input port	1	RCA pin jack x 2 (L, R)
	Microphone (Mic) input port	1	Stereo mini jack
	Audio Output (Audio Out) port	1	Stereo mini jack
	Monitor Output (Monitor Out) port	1	Mini D-Sub 15-pin (female) black
	USB(TypeA) port*	1	USB connector (Type A)
	USB(TypeB) port*		USB connector (Type B)
	USB port	1	USB Connector (Type A) for Optional Wireless LAN Unit
	LAN port	1	RJ-45
	RS-232C port	1	Mini D-Sub 9-pin (male)

* Supports USB 2.0. However, the operation of all USB compatible devices is not guaranteed.



Discount-Merchant.com (800) 281-8860

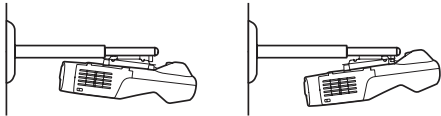
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

This product is also designed for IT power distribution system with phase-to-phase voltage 230V.



Pixelworks DNX™ ICs are used in this projector.

Angle of tilt



If you use the projector tilted at an angle of more than 5° it could be damaged and cause an accident.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

(for Projector only)

DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15
Class B Personal Computers and Peripherals; and/or
CPU Boards and Power Supplies used with Class B Personal Computers

We: Epson America, Inc.
Located at: 3840 Kilroy Airport Way
MS: 3-13
Long Beach, CA 90806
Tel: 562-290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.909. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: EPSON
Type of Product: LCD Projector
Model: G/H318C/H342C



FixYourDL.com
Sponsored by DM

Discount-Merchant.com 1-800-241-8888
THE TRUSTED SOURCE FOR PROJECTOR LAMP AND ACCESSORIES

(for Projector and Easy Interactive Pen)

FCC Compliance Statement For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

(for Easy Interactive Pen only)

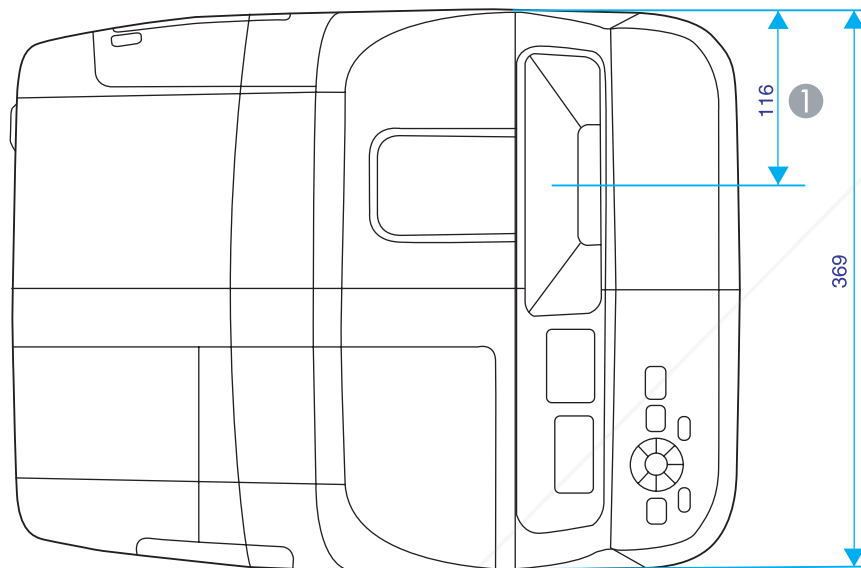
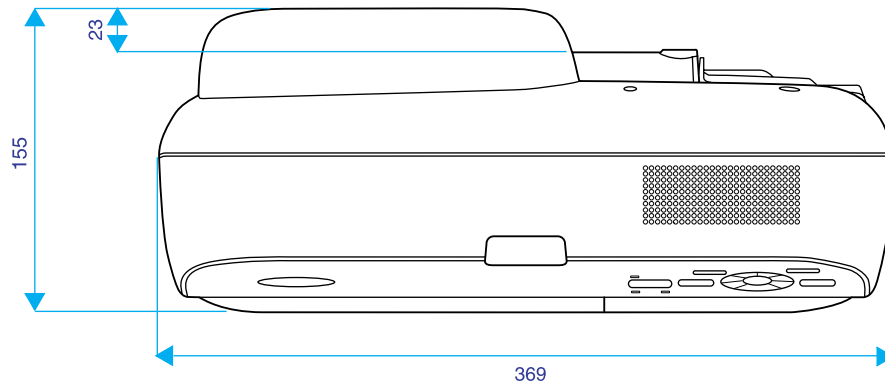
Since the Easy Interactive Pen is so small, FCC Statement for Verification is written in the manual.

FCC Statement for Verification

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



① Distance until projection

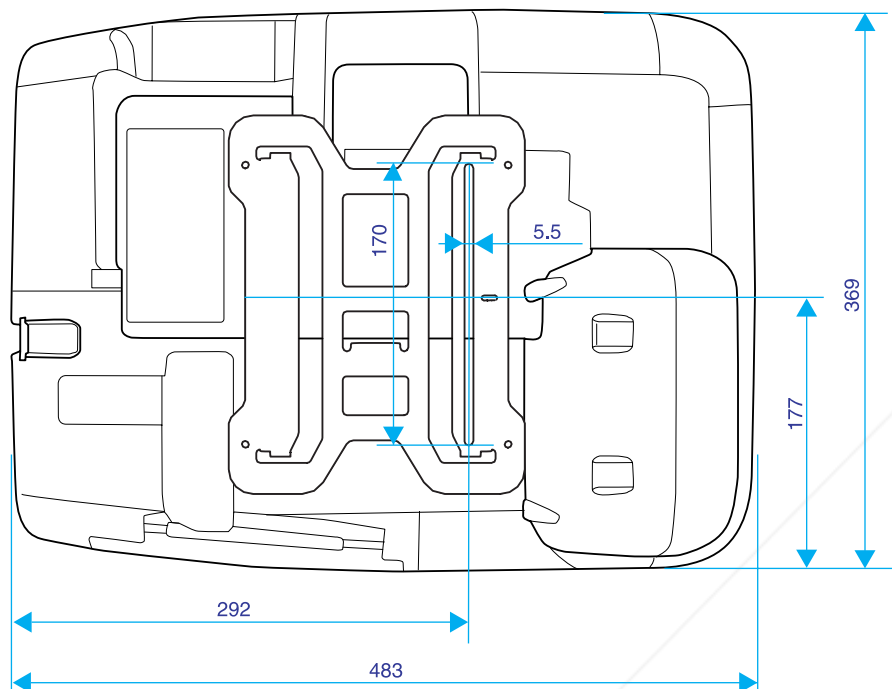


FixYourDLP.com

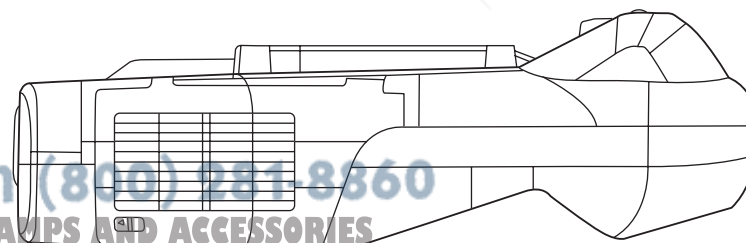
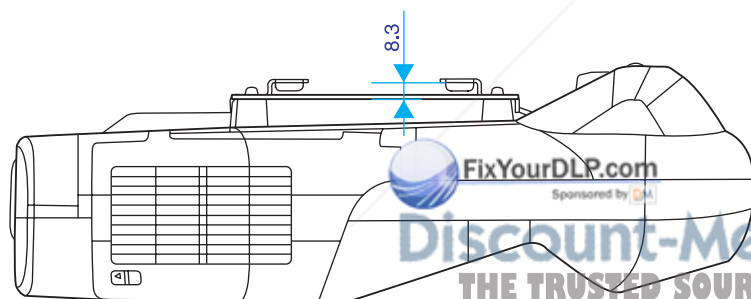
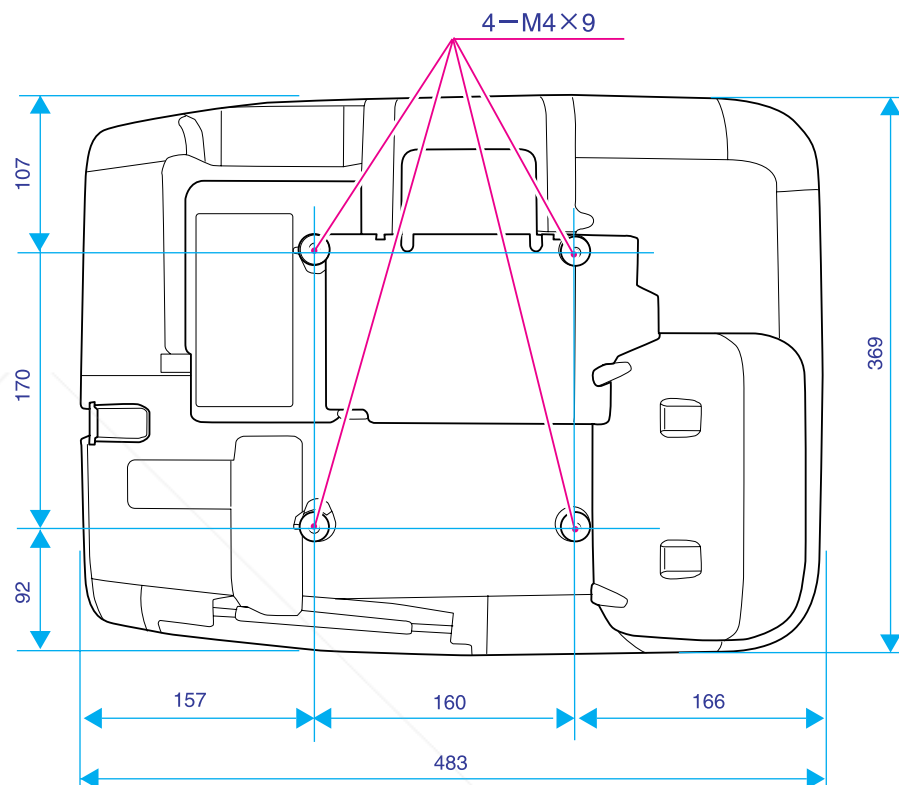
Sponsored by DM

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

With Slide Plate





Without Slide Plate



Units: mm

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

AMX Device Discovery	AMX Device Discovery is a technology developed by AMX to facilitate AMX control systems for easy operation of the target equipment. Epson have implemented this protocol technology, and have provided a setting to enable the protocol function (ON). See the AMX Web site for more details. URL http://www.amx.com/
Aspect Ratio (Aspect Ratio)	The ratio between an image's length and its height. HDTV images have an aspect ratio of 16:9 and appear elongated. The aspect ratio for standard images is 4:3.
Component Video	A Video signal which has the luminance component and color component separated to provide better image quality. Refers to images that consist of three independent signals: Y (luminance signal), Pb and Pr (color difference signals).
Composite video	Video signals that have the video brightness signals and color signals mixed together. The type of signals commonly used by household video equipment (NTSC, PAL, and SECAM formats). The carrier signal Y (luminance signal) and chroma (color) signal that are contained in the color bar are overlapped to form a single signal.
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased to make text and graphics stand out more clearly, or to make them appear softer. Adjusting this particular property of an image is called Contrast adjustment.
DHCP	An abbreviation of Dynamic Host Configuration Protocol, this protocol automatically assigns an <u>IP Address</u> to equipment connected to a Network.
Dolby Digital	A sound format developed by Dolby Laboratories. Normal stereo is a 2-channel format that uses two speakers. Dolby Digital is a 6-channel (5.1-channel) system which adds to this a center speaker, two rear speakers, and a sub-woofer.
Gateway address (Gateway address)	This is a server (router) for communicating across a Network (subnet) divided according to <u>Subnet Mask</u> .
HDTV	An abbreviation for High-Definition Television that refers to high-definition systems which satisfy the following conditions. <ul style="list-style-type: none"> • Vertical resolution of 720p or 1080i or greater (p = <u>Progressive</u>, i = <u>Interlace</u>) • Screen <u>Aspect Ratio</u> of 16:9 • <u>Dolby Digital</u> audio reception and playback (or output)
Interlace	A method of image scanning whereby the image data is divided into fine horizontal lines that are displayed in sequence starting from left to right and from top to bottom. The even-numbered lines and odd-numbered lines are displayed alternately.
IP Address	A number to identify a computer connected to a Network.
Progressive	A method of image scanning whereby the image data from a single image is scanned sequentially from top to bottom to create a single image.
Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely short time. Because of this, the image must be scanned many times per second to refresh the light-emitting element. The number of refresh operations per second is called the Refresh Rate and is expressed in hertz (Hz).

SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which do not satisfy the conditions for HDTV  High-Definition Television.
SNMP	An abbreviation for Simple Network Management Protocol, which is the protocol for monitoring and controlling devices such as routers and computers connected to a TCP/IP Network.
sRGB	An international standard for color intervals that was formulated so that colors that are reproduced by video equipment can be handled easily by computer operating systems (OS) and the Internet. If the connected source has an sRGB mode, set both the projector and the connected signal source to sRGB.
SSID	SSID is identification data for connecting to another device on a Wireless LAN. Wireless communication is possible between devices with matching SSID.
Subnet mask (Subnet mask)	This is a numerical value that defines the number of bits used for the Network address on a divided network (subnet) from the IP Address.
SVGA	A type of video signal with a resolution of 800 (horizontal) \times 600 (vertical) dots that is used by IBM PC/AT-compatible computers.
S-Video	A Video signal which has the luminance component and color component separated to provide better image quality. Refers to images that consist of two independent signals: Y (luminance signal) and C (color signal).
SXGA	A type of video signal with a resolution of 1,280 (horizontal) \times 1,024 (vertical) dots that is used by IBM PC/AT-compatible computers.
Sync.	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the phases of these signals (the relative position of the crests and the troughs in the signal) is called Synchronization. If the signals are not synchronized, flickering, blurriness, and horizontal interference occur.
Tracking	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the frequency of these signals (the number of crests in the signal) is called Tracking. If Tracking is not carried out correctly, wide vertical stripes appear in the signal.
Trap IP Address	This is the IP Address  for the destination computer used for error notification in SNMP.
VGA	A type of video signal with a resolution of 640 (horizontal) \times 480 (vertical) dots that is used by IBM PC/AT-compatible computers.
WPS	WPS is an abbreviation of Wi-Fi Protected Setup. Wi-Fi Protected Setup has been devised by the Wi-Fi Alliance as a means of easily setting up and securing a Wireless LAN.
XGA	A type of video signal with a resolution of 1,024 (horizontal) \times 768 (vertical) dots that is used by IBM PC/AT-compatible computers.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Seiko Epson Corporation. No patent liability is assumed with respect to the use of the information contained herein. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Neither Seiko Epson Corporation nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs, or expenses incurred by the purchaser or third parties as a result of: accident, misuse, or abuse of this product or unauthorized modifications, repairs, or alterations to this product, or (excluding the U.S.) failure to strictly comply with Seiko Epson Corporation's operating and maintenance instructions.

Seiko Epson Corporation shall not be liable against any damages or problems arising from the use of any options or any consumable products other than those designated as Original Epson Products or Epson Approved Products by Seiko Epson Corporation.

The contents of this guide may be changed or updated without further notice.

Illustrations in this guide and the actual projector may differ.

Wireless Telegraphy Act Regulations

The following acts are prohibited by the Wireless Telegraphy Act.

- Modifying and disassembling (including the antenna)
- Removing the label of conformance
- IEEE 802.11a (50 Hz band) external use



About Notations

Microsoft® Windows® 2000 operating system
Microsoft® Windows® XP Professional operating system

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

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

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

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

General Notice

IBM, DOS/V, and XGA are trademarks or registered trademarks of International Business Machines Corporation.

Macintosh, Mac, and iMac are registered trademarks of Apple Inc.

Microsoft, Windows, Windows NT, Windows Vista, Windows 7, PowerPoint, and Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Pixelworks and DNX are trademarks of Pixelworks Inc.

WPA™ and WPA2™ are registered trademarks of Wi-Fi Alliance.

PJLink trademark is a trademark applied for registration or is already registered in Japan, the United States of America and other countries and areas.

Other product names used herein are also for identification purposes only and may be trademarks of their respective owners. Epson disclaims any and all rights in those marks.

©SEIKO EPSON CORPORATION 2010. All rights reserved.

GNU GPL

This projector product includes the open source software programs which apply the GNU General Public License Version 2 or later version ("GPL Programs"). We provide the source code of the GPL Programs until five (5) years after the discontinuation of same model of this projector product.

If you desire to receive the source code of the GPL Programs, please see the "EPSON Projector Contact List" in the User's Guide, and contact the customer support of your region.

These GPL Programs are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

The list of GPL Programs is as follows and the names of author are described in the source code of the GPL Programs

The list of GPL Programs

busybox-1.7.2

libgcc1(gcc-4.2.3)

linux-2.6.20

patches

udhcp 0.9.8

uvc rev.219

wireless_tools 29

Pixelworks PWC950 SDK drivers

The GNU General Public License Version 2 is as follows. You also can see the GNU General Public License Version 2 at <http://www.gnu.org/licenses/>.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
 - b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
 - b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

- 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
- 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LGPL

This projector product includes the open source software programs which apply the GNU Lesser General Public License Version 2 or later version ("LGPL Programs").

We provide the source code of the LGPL Programs until five (5) years after the discontinuation of same model of this projector product.

If you desire to receive the source code of the LGPL Programs, please see the "EPSON Projector Contact List" in the User's Guide, and contact the customer support of your region.

These LGPL Programs are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

The list of LGPL Programs is as follows and the names of author are described in the source code of the LGPL Programs.

LGPL Programs

uClibc-0.9.29

SDL-1.2.13

The GNU Lesser General Public License Version 2 is as follows. You also can see the GNU Lesser General Public License Version 2 at <http://www.gnu.org/licenses/>.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.



FixYourDLP.com

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
 - b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
- 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

- 9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
- 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
- 11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

BSD License (Berkeley Software Distribution License)

This projector product includes the open source software program "University of California, Berkeley License (Berkeley Software Distribution License)" which applies the terms and conditions provided by owner of the copyright to the "BSD License".

The "BSD License" are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

List of BSD License programs

busybox_1.7.2

License terms of conditions of each program which are provided by owner of the copyright to the "BSD License" are as follows.

Copyright (c) The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by Kenneth Almquist.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University of California nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libjpeg

This projector product includes the open source software program "libjpeg" which applies the terms and conditions provided by owner of the copyright to the "libjpeg".

The "libjpeg" are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

List of libjpeg programs

libjpeg-6b

License terms of conditions of each program which are provided by owner of the copyright to the "libjpeg" are as follows.

Copyright (C) 1994-1997, Thomas G. Lane. This file is part of the Independent JPEG Group's software. For conditions of distribution and use, see the accompanying README file.

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

LEGAL ISSUES

=====

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.

3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

libpng

This projector product includes the open source software program "libpng" which applies the terms and conditions provided by owner of the copyright to the "libpng".

The "libpng" are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

List of libpng programs

libpng-1.2.7

License terms of conditions of each program which are provided by owner of the copyright to the "libpng" are as follows.

For conditions of distribution and use, see copyright notice in png.h Copyright (c) 1998-2004 Glenn Randers-Pehrson (Version 0.96 Copyright (c) 1996, 1997 Andreas Dilger) (Version 0.88 Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.)

This copy of the libpng notices is provided for your convenience. In case of any discrepancy between this copy and the notices in the file png.h that is included in the libpng distribution, the latter shall prevail.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following this sentence.

libpng version 1.2.6, September 12, 2004, is Copyright (c) 2004 Glenn Randers-Pehrson, and is distributed according to the same disclaimer and license as libpng-1.2.5 with the following individual added to the list of Contributing Authors

Cosmin Truta

libpng versions 1.0.7, July 1, 2000, through 1.2.5 - October 3, 2002, are Copyright (c) 2000-2002 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors

Simon-Pierre Cadieux

Eric S. Raymond

Gilles Vollant

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998, 1999 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane

Glenn Randers-Pehrson

Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996, 1997 Andreas Dilger Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler

Kevin BraceySam Bushell

Sam Bushell

Magnus Holmgren

Greg Roelofs

Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger

Dave Martindale

Guy Eric Schalnat

Paul Schmidt

Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.
2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.
3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a certification mark of the Open Source Initiative.

Glenn Randers-Pehrson
glennrp@users.sourceforge.net
September 12, 2004

zlib

This projector product includes the open source software program "zlib" which applies the terms and conditions provided by owner of the copyright to the "zlib".

The "zlib" are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

List of zlib programs

zlib-1.1.4

License terms of conditions of each program which are provided by owner of the copyright to the "zlib" are as follows.

Copyright notice:

(C) 1995-1998 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly

jloup@gzip.org



Mark Adler

madler@alumini.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes.

libmd5-rfc

This projector product includes the open source software program "libmd5-rfc" which applies the terms and conditions provided by owner of the copyright to the "libmd5-rfc".

The "libmd5-rfc" are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

List of libmd5-rfc programs

libmd5-rfc

License terms of conditions of each program which are provided by owner of the copyright to the "libmd5-rfc" are as follows.

Copyright (C) 1999, 2002 Aladdin Enterprises. All rights reserved.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

L. Peter Deutsch ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

ncurses

This projector product includes the open source software program "ncurses" which applies the terms and conditions provided by owner of the copyright to the "ncurses".

The "ncurses" are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

List of ncurses programs

ncurses-5.6

License terms of conditions of each program which are provided by owner of the copyright to the "ncurses" are as follows.

Copyright (c) 1998-2002,2003 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, distribute with modifications, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.

mDNSResponder

This projector product includes the open source software program "mDNSResponder" which applies the following license terms "Apache License Version 2.0, January 2004".

List of "mDNSResponder"

mDNSResponder-107.6 (only mDNSResponderPosix is used)

License terms "Apache License Version 2.0, January 2004" are as follows.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.



Discount-Merchant.com (800) 281-8859
THE TRUSTED SOURCE FOR PROJECTOR LAMP AND ACCESSORIES

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy][name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

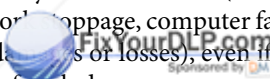
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.



Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

A

A/V Mute	40
Address 1 Setting	87
Address 2 Settings	87
Address 3 Setting	87
Air exhaust vent	11
Air filter replacement period	114
Audio-L/R Input Port	13
Auto Setup	75

B

Basic Menu	82
Blackboard	39
Brightness	74

C

Ceiling mount fixing points	15
Cleaning the Air filter and Air Intake Vent	108
Cleaning the Projection Window	108
Cleaning the Projector's Surface	108
Color Adjustment	74
Color Mode	39, 74
Color Saturation	74
Computer1 input port	14
Computer2 input port	14
Configuration Menu	73
Connecting USB devices	34
Consumables	116
Continuous	33
Contrast	74
Control panel	15

Control Panel Lock	52, 76
Cross	47

D

DHCP	83
Direct Power On	78
Display	78
Display Background	78
Display order	33
Display Settings	33

E

Easy Interactive Pen	18
ECO	77
ESC/VP21	121
Extended Menu	78
E-Zoom	47

F

Freeze	41
Front	78
Front/Ceiling	78
Full Lock	52

G

Gateway Address	83, 86
-----------------------	--------

H

Help function	93
High Altitude Mode	78
How to replace the air filter	114
How to replace the lamp	111

I

Image files	31
Image Menu	74
Indicators	94
Info Menu	90
Input Signal	90
IP Address	83, 87

J

jpg	28
-----------	----

K

Keystone	76
----------------	----

L

Lamp cover	11
Lamp Hours	90
Lamp indicator	94
Lamp replacement period	111
Language	79

M

Mail menu	87
Mail Notification	66, 87
Messages	78
Mic Input Level	77
Mic input port	14
Mouse Pointer	48

N

Network Menu	80
--------------------	----



FixYourDLP.com

Sponsored by DLP

 Discount-Merchant.com (800) 281-8850
 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Network Protect	51	R		SSID	83
O		Rear	78	Standby Mode	79
Operating temperature	124	Rear/Ceiling	78	Startup Screen	78
Operation	78	Refresh Rate	90	Storage temperature	124
Optional accessories	116	Remote Control	16	Subnet Mask	83, 86
Others Menu	88	Remote Receiver	11, 12	Supported Resolutions	119
Overheating	95	Replacing Batteries	110	S-Video Input Port	13
P		Reset All	91	Sync Info	90
Part Names and Functions	11	Reset Menu	91	Sync.	75
Password Protect	50	Resetting the lamp operating time	91, 114	T	
Password protect sticker	51	Resolution	90, 119	Temp indicator	94
Photo	39	Rotating images	30	Theatre	39
PJLink	123	S		Tint	74
Pointer	46	Screen Size	117	Tracking	75
Pointer Shape	76	Screen switching time	33	Trap IP Address	88
Port Number	87	Security menu	84	U	
Position	75	Security slot	12	User Pattern	70
Power Consumption	77	Settings Menu	76	User's Logo	68
Power indicator	94	Sharpness	74	User's Logo Protect	50
Power inlet	13	Signal Menu	75	V	
Power On Protect	50	Sleep Mode	78	Video Input Port	13
Presentation	28, 39	Slide plate	14	Video Signal	76, 90
Problem Solving	94	Slideshow	29, 32	Volume	77
Progressive	75	SMTP Server	87	W	
Projecting Image Files	31	SNMP	67, 88	Web Browser	63
Projection	78	Soft keyboard	81	Web Control	63
Projection Distance	117	Source	90	Web Remote	64
Projection window	12	Source Search	15, 21	Wide-screen projection	41
Projector Name	82	Specifications	124		
		Sports	39		
		sRGB	39		

Wired LAN menu	86
Wireless LAN Menu	83
Wireless Mouse Function	48



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



Disclaimer

This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (<http://www.fixyourdlp.com>) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: <http://www.fixyourdlp.com>

Video Guides: <http://www.fixyourdlp.com/guides>

User Forums: <http://www.fixyourdlp.com/forum>

FixYourDLP's Fight Against Counterfeit Lamps:

<http://www.fixyourdlp.com/counterfeits>

Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps:

<http://www.recycleyourlamp.org>

Lamp Research - The trusted 3rd party lamp research company:

<http://www.lampresearch.com>

Discount-Merchant.com – The worlds largest lamp distributor:

<http://www.discount-merchant.com>



FixYourDLP.com

Sponsored by 