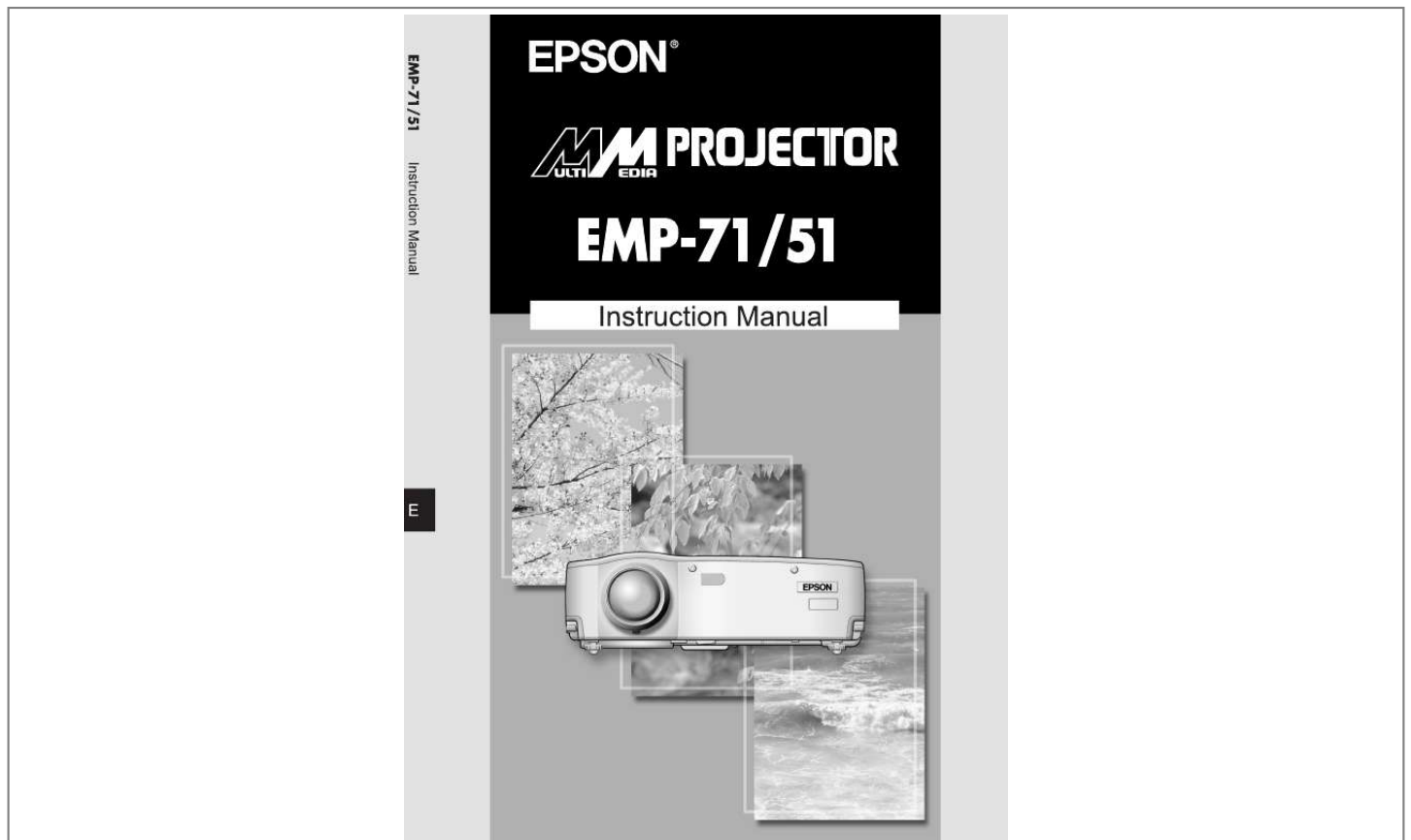




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for EPSON EMP-51. You'll find the answers to all your questions on the EPSON EMP-51 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual EPSON EMP-51
User guide EPSON EMP-51
Operating instructions EPSON EMP-51
Instructions for use EPSON EMP-51
Instruction manual EPSON EMP-51



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Manual abstract:

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.. 8 Remote Control.....

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. 11 Setup Special Notes on Setup

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.....
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..... 14 Setup Instructions ...

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.....
.....
.....
.....
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.. @@@@Projecting Images ...

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..... Adjusting Images ...

.....
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... Ending After the Projection ..

.....
.....
.....
.....
.....

.....
.... 18 21 23 24 28 31 What You Can Do Using the Wireless Mouse .

.....
.....
.....
.....
.....

.....
. Enlarging an Image....

.....
.....
.....
.....
.....

.....
..... Adjusting Image Size .

.....
.....
.....
.....
.....

.....
..... Adding Image Effects.

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.....
.....
.....
.....

.....
.... Freezing and Deleting Images.

.....
.....
.....

.....
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.....
.....
Displaying Help Screens.....

.....
.....
.....

.....
.....
.....
34 36 37 38 39 40 2 Menu Functions (Remote Control Only) Learning Basic Operations.....

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.....
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. Video Menu

.....
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.....
.....
Audio Menu

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.....
..... Effect Menu .

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... *Setting Menu*

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..... *Advanced Menu*

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..... *About Menu*.....

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.....
.....
.....

.....
.....
.....
.....

..... *Reset All Menu*.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *42 43 45 46 47 49 50 51 Troubleshooting Possible Failures*.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

. 54 When Indicators Do Not Help....

.....
.....
.....
.....
.....

..... 57 Maintenance Projector Cleaning, Lens Replacement, Air Inlet Cleaning..

.....
.....
.....
.....
.....

.. 64 Lamp Replacement.....

.....
.....
.....
.....
.....
.....
.....

... 66 General Notes Optional Accessories

.....
.....
.....
.....
.....
.....

... Glossary ..

.....
.....
.....
.....
.....
.....
.....

.. Specifications ...

.....
.....
.....
.....
.....

.....
.....
.....
.....
.....

... External Dimensions

.....
.....
.....
.....
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... Index ..

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.....
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.....
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.....
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.....
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.....
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.. 70 71 73 75 76 3 Features Compact and Lightweight The compact, lightweight design of your projector (6.6 liters and roughly 3.1 kilograms (6.83 pounds)) allows easy carrying. Clear, Sharp Images Though compact, your projector provides clear, sharp presentations even in well-illuminated areas. Global Video Signal Compatibility Your unit projects virtually all of the video signal formats used world-wide, including NTSC, NTSC4.43, PAL, M-PAL, N-PAL, PAL60, and SECAM. Improved Video Image Clarity Projection of distinct video images from composite video and S-video input is possible. "Keystone" Correction Function (See pages 29 and 47) This built-in function allows easy correction of trapezoidal distortion caused by projection angle. Wireless Mouse Remote Control for Computer Mouse Operations (See page 34) The remote control allows wireless operation of various projector functions, including cursor/stamp, horizontal bar display, and image enlargement and reduction. Presentation Effects Function (Remote control Effect button, See page 38) Use of the remote control Effect button creates effective presentations. Cursor/Stamp Horizontal bar 4 E-Zoom Function (Remote control E-Zoom button, See page 36) Enlarges an image (from standard to 4x size vertically and horizontally). Automatic image sizing with Wide/Tele button (See page 37) Allows image enlargement and reduction.

Enlargement Reduction 5 About The Manuals and Notations Used Types of Manual The documentation for your EPSON projector is divided into the following three manuals. The manuals cover the following topics. · Safety Instructions/World-Wide Warranty Terms This manual contains information on using the projector safely, and also includes World-Wide Warranty Terms and a Troubleshooting check sheet. Be sure to read this manual thoroughly before using the projector. · Instruction Manual (this manual) This Instruction Manual contains information on installing the projector, basic operation, using the projector menus, troubleshooting and maintenance. · Quick Reference Guide Contains an overview of the most commonly-used projector functions for easy reference. You should keep this Quick Reference Guide near the projector at all times and refer to it before starting presentations and while using the projector in order to check details of operation. General information Warning: Caution: Tip: * Indicates procedures which may result in death or serious injury if sufficient care is not taken. 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 that an explanation of the underlined word or words in front of this symbol appears in the Glossary of Terms. Refer to the Glossary in the General Notes. (See page 71) Meaning of "unit" and "this product" When "unit" or "this product" appears in the text of this Instruction Manual, they may refer to items which are accessories or optional equipment in addition to the main projector unit itself. 6 Getting Started Part Names and Functions ..

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...8 Remote Control.....

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 ...11 7 Part Names and Functions Projector Unit [Front] Operation Display Indicator Control panel Wide/Tele Button Focus ring Speaker Front adjustable foot Air exhaust vent Power inlet Remote control receiver Foot adjust lever Problem/Alarm Display Indicator Lens cover Front adjustable foot [Side] Air inlet [Rear] Air inlet Input/Output ports [Bottom] Front adjustable foot Front adjustable foot Lamp Cover Rear adjustable foot 8 [Wide/Tele Button (See page 37)] Press the T side (Tele) of the button to reduce the image size. Press the W side (Wide) of the button to enlarge the image size. [Control Panel] Power Button (See pages 25, 31) Switches power on and off. *Press twice to turn the power off. Help Button (See page 40) Displays help screen. Keystone (Select) Button (See pages 29, 40) Adjust when screen is distorted trapezoidally. When the help menu is displayed, functions as a "Select" button for menu items. Source (Enter) Button (See page 26, 40) Toggles the video source between Computer, S-Video, and Composite video. When the help menu is displayed, functions as a "Enter" button. [Input/Output Ports] Computer/Component Video port (See page 20) For video signal input from computer or component video. Mouse/Com port (See page 35) Used when using the remote control as a wireless mouse. Audio In port (See page 20) For input of audio signal from computer.

USB Mouse port (See page 35) Used when using the remote control as a wireless mouse. S-Video port (See page 21) For input of S-video signal from A/V device. Audio Out port (See page 23) For output of audio signal from projector. Audio ports (See page 21) For input of audio signal from A/V device. Composite Video port (See page 21) For input of Composite Video signal from A/V device. 9 Remote Control [Front] Freeze Button (See page 39) Temporarily stops a moving picture. To release the freeze, press the button again. A/V Mute Button (See page 39) Temporarily eliminates picture and sound. To release muting, press the button again or adjust the volume. Effect Button (See page 38) Executes an assigned effect function. Esc Button (See page 34, 42) To terminate an activated function, or right-click function when using as a wireless mouse. Menu Button (See page 42) Displays or cancels menus. Auto Button (See page 30) Optimizes computer video. Indicator Lights during signal output from remote control. Power Button (See page 25, 31) Switches projector power on and off.

*Press twice to turn the power off. R/C switch (See pages 25, 32) Switches remote control power on and off. E-Zoom Button (See page 36) Executes the E-Zoom function. Enter Button Used for scrolling, menu item selection, and as the left mouse button. Help Button (See page 40) Provides topic-specific explanation for addressing problems.

Use this button when problems occur. Computer, S-Video, Video Button (See page 26) Switches to the selected video source. Volume Button (See page 30) Adjusts volume.



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[Back] Battery Cover 10 Remote Control Operating Range The remote control may not operate beyond certain distances and angles from the receiver on the projector. Observe the following conditions during use. [Operating Distance : Approximately 393.70inches (10m)] [Operating Area:] Horizontally Remote control receiver Remote control transmitter Approximately 30° Approximately 30° Vertically Approximately 15° Tip: · The remote control R/C switch must be switched to "On" to use the remote control. · Point the remote control towards the remote control receiver on the projector unit. · Certain screens may shorten the operating distance (approximately 393.70inches (10m)) of the remote control when the control is pointed towards the screen to reflect its signal during use.

· Situate the remote control receiver out of direct sunlight, fluorescent light, and similar light sources. These may cause the remote control to malfunction. · If the remote control malfunctions or stops operating, the batteries may need changing. Replace the batteries with a fresh set. 11 Inserting Batteries in the Remote Control This section describes how to insert batteries in your remote control. 1. Remove the battery cover. Slide the catch of the battery cover in the direction shown by the arrow. Tip: Be sure to use fresh batteries of the same type as the old. 2.

Insert batteries. Be sure to match the polarity to that indicated on the remote; video port" or the like. Consult the section describing "connection to an external monitor" or the like in the instruction manual for the computer that you are using, and make sure that the computer has a video signal output port. Computers with an integrated monitor and other components as well as laptop computers may require separate purchase of an external output port. In other cases, an external output port cannot be attached.

[The resolution and frequency of the computer must be within the range of specifications shown on the following page] The resolution and frequency of the video signal output by your computer must be compatible with your projector in order to allow projection (some computers allow partial projection, but clear projection cannot be obtained). Check the resolution and frequency of the video signal in the instruction manual of the computer you are using for projection.

18 Compatible Mode Chart for Connectable Computers If the resolution and frequency of the video signals which are output from the computer do not correspond to any of the values in the table below, those video signals cannot be projected. (In some cases it may be possible to project such signals, but they will not produce clear images.) Check the instruction manual for the computer for details on the resolution and frequency of the video signals.

Furthermore, some computers may let you change the output resolution. If this is the case, change the resolution to a value in the table below. Signal (Resolution) (dots) Signal Refresh rate (Hz) Frequency used for resized displays (when resizing is on) (dots) EMP-71 PC (RGB) compatible modes 64 at the Audio Out port the sound output will be switched from the built-in speaker to external sound output. · Though the projector outputs audio for projected video images, in the case of A/V devices, the audio output corresponds to the audio devices connected to the Audio ports. · Before purchasing an audio connection cable, thoroughly check the connection interface style of the external audio devices you are connecting. 23 Projecting Images Here we begin projecting images from an A/V device. Preparation Warning: · Never look into the lens when the projector is switched on. The intense light can damage your vision. · Use only the power cord supplied. Use of other cables may cause fire or electric shock.

Caution: Do not attempt projection with the lens cover in place. Heat may deform the lens cover. 1. Check that the projector and computer or A/V device are connected. 2. Remove the lens cover. Power inlet 3. Attach the power cord (accessory) to the projector. Align the power cord connector with the power inlet on the projector and insert the connector firmly and completely into the inlet. 4.

Insert the plug end of the power cord in an outlet. The operation display indicator will light with an orange color. Tip: Buttons cannot be operated while the operation display indicator is flashing orange. 24 Projection When preparations are complete, you are ready for projection. 1.

To use the remote control, turn the remote control R/C switch to "On". 2. Press the Power button to switch power on. The operation display indicator begins to flash green, and projection begins. Projector Remote control After approximately 30 seconds, the operation display indicator changes from flashing green to steady green.

"No-Signal" is displayed. Depending on your settings, there may be no display. (See page 47) The operation display indicator lights green. 25 3. Press the Source button on the projector or the Computer, S-Video or Video button on the remote control to select the video source you wish to project. Each time the Source button on the projector is pressed, the video source cycles between Computer, S-Video and Video. If there is no input at the S-Video port, the Source button switches the video source from Computer to Video. Tip: If projecting a component video picture, change the setting to Computer. Projector Computer Remote control S-Video When no S-Video input Video 4. Switch on power to the computer or A/V device to begin projection.

The "No-Signal" display disappears, and a video signal from the computer or A/V device is projected. Tip: · If the "No-Signal" display remains, check the connections again. · If the same static image is projected for some time, the video projection may contain an afterimage. 26 [Settings for laptop and integrated

LCD computers (when connected)] When a laptop or integrated LCD computer is connected to the projector, some computers require key commands or settings to change the output destination of a video signal. Keep "Fn" depressed while pressing "F0" to change the setting. For details, consult the instruction manual of the computer you are using. Manufacturer NEC Panasonic Toshiba IBM SONY Fujitsu Macintosh Output Switching Example "Fn"+"F3"

"Fn"+"F3" "Fn"+"F5" "Fn"+"F7" "Fn"+"F7" "Fn"+"F7" "Fn"+"F10" After restarting, the monitoring and sound on the control panel are set to mirror the computer. Tip: Some computers may not be able to have images displayed on the computer screen at the same time as they are being projected. In such cases, use only external output.



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27 Adjusting Images This section describes how to obtain the best video performance.

See "Setup" (page 13) for details on setting-up position and projection size. Adjusting the Image Projection Angle Adjust the projection angle of the projector.

Adjust the projector to face the screen as directly as possible. 1. Lift the projector to your desired angle of projection.

Foot adjust levers 2. Use your fingers to pull up the foot adjust levers. Front adjustable feet emerge. 3. Release the foot adjust levers.

4. Make fine adjustments to the height. Turn the lower portion of the front adjustable feet to make fine adjustments to height. Raise Lower Tip: Setting back the front adjustable feet (See page 32) 28 Adjusting the Focus This section describes how to adjust the video focus. 1. Turn the focus ring on the projector to adjust the focus. Tip: · Focus cannot be achieved if the lens is dirty or covered with condensation. Wipe off any dirt or condensation (See page 64). · If adjustment does not succeed, make sure the setup distance is between 39.37inches (1.

0m) and 515.75inches (13.1m). Keystone Correction (Using Projector Button) When the foot adjust levers are used to change the projection angle, the keystone correction function can be used to correct trapezoidal distortion upward or downward by roughly 15°. 1. Press the Keystone button on the projector to minimize the trapezoidal distortion. Tip: · A keystone correction reduces screen size. · The keystone correction is stored in memory. You will need to readjust the image if the projector is moved to a different location or the projection angle is changed. · If a keystone correction makes the image noticeably uneven, reduce the video sharpness with the menu commands Video > Sharpness (See page 44).

29 Adjusting Images (Remote Control Only) [Optimizing Computer Video (Using the Auto button)] This function applies automatically optimized adjustment values to a computer input signal. If the input is a video signal, this function does not operate. Adjusted values set automatically are "Tracking", "Position (vertical and horizontal)", and "Sync". Tip: · This function cannot optimize the adjustment for some signal types. In these cases, use the Video Menu commands to perform adjustment (See page 43).

· When functions such as E-Zoom or A/V muting are engaged, these functions being used will be canceled before automatic adjustment is carried out.

[Opening a Menu For Adjustment] Press the Menu button and perform adjustment using the Video Menu. For details, refer to "Menu Functions (Remote Control Only)" (See page 41). Adjusting the Volume (Remote Control Only) Press the Volume +, - button to adjust the volume to an easily audible listening level. Tip: Adjustment is not available if there is no audio signal.

30 Ending After the Projection Ending 1. Press the Power button. A "Power Off" confirmation message is displayed. 2. Press the Power button again. The projector lamp goes out, the operation display indicator flashes orange, and after cool-down* is complete, the indicator switches to steady orange. Projector Remote control Tip: If you do not wish to shut the power, press another button. Or, if no action is taken, the message disappears after 7 seconds. 3. Check that the operation display indicator lights orange.

Tip: · The flashing orange operation display indicator indicates that cool-down (which takes about 2 minutes) is in progress. Buttons cannot be operated during cool-down. · If the power cord plug is pulled out of the outlet, the operation display indicator will go out. Operation display indicator lights orange. 31 4. Pull the power cord plug out of the outlet. Caution: Do not pull the power cord plug out of the outlet while the operation display indicator is flashing orange. This may cause a malfunction or shorten the projector lamp life. 5. Set the remote control R/C switch to Off.

Tip: Unless the remote control R/C switch is switched off, a small amount of current will be supplied to the remote control and exhaust the batteries. If the remote control will not be used for a long period or you are moving the unit, set the remote control R/C switch to Off. Storage When you are finished projecting, retract the front adjustable feet into the unit. Foot adjust levers 1. Support the projector unit with your hands, pull upward on the foot adjust levers with your fingers, and lower the unit slowly.

2. Attach the lens cover. 32 What You Can Do Using the Wireless Mouse ...

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.....34 Enlarging an Image.....

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.....36 Adjusting Image Size.

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37 Adding Image Effects

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38 Freezing and Deleting Images

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...39 Displaying Help Screens ...
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.....40 33 Using the Wireless Mouse The remote control included allows you to control a computer's mouse operations at a separate location. The Enter button has the same action as a left mouse button, and the Esc button has the same action as a right mouse button. Mouse operation by remote control allows you to make a presentation at the screen without assistance.

Presenter Unassisted presentation is possible Remote Control Mouse Tip: · If mouse button functions are swapped on your computer, the functions on the remote control also change as follows. Esc Button: Left mouse button Enter Button: Right mouse button · This function cannot be used while an Effect Function, E-Zoom function, menu function, or Help function is in use. Remote Control Mouse 34 Making a Connection Before making a connection, switch off power to the projector and computer. Caution: · Connecting a non-USB mouse cable with the power on can cause malfunction or failure. · Use only the mouse cable supplied. Any other cable may cause failure. Mouse/Com port and USB Mouse port Mouse/USB port Mouse cable (accessory) Computer IBM PC/AT Compatible (DOS/V Machine) Computer for USB* Mouse Mouse Cable PS/2 Mouse Cable Connection Method Connect the computer mouse port and the projector Mouse/ Com port. Connect the computer USB port and the projector USB mouse port. USB Mouse Cable When using a USB mouse, note the following. · Windows The only compatible models are those pre-installed with the standard USB interface configuration in Windows2000/Me and Windows98. If the computer is running a version of Windows 98/2000/Me that has been upgraded from an earlier version of Windows, correct operation cannot be guaranteed. · Macintosh Compatible with OS 8.6 9.1. * The USB mouse port is only compatible for a USB mouse, it is not compatible with other USB devices.

35 Enlarging an Image The remote control included lets you enlarge portions of an image. Enlargement Reduction 1. Press the E-Zoom button on the remote control to enlarge or reduce the display on screen. (The Esc button releases this feature.) Tip: 24-step partial enlargement and reduction by factors of 1x-4x is available.



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Magnification factor is displayed. 2. Tilt the Enter button up, down, left or right to scroll the projected image in that direction. Push up Push left Push right Push down 36 Adjusting Image Size The Wide/Tele button on the projector allows you to adjust the size of images. 1. When you press the T (Tele) side of the button, the images are reduced. 2. When you press the W (Wide) side of the button, images are enlarged. Tip: · The enlargement/reduction ratio for adjustment with the Wide/Tele button is 0.8 1.

0 in 32 steps. · This function is active until the Reset All menu is executed (See page 51). 37 Adding Image Effects Using the Effect1 and Effect2 buttons, you can add effects to images during presentation (to cancel this function, press the Esc button). For effects settings, see "Effect Menu" (page 46). Cursor/Stamp This effect displays a cursor on the screen and freezes it at a desired location. 1. Press the Effect1 button to display a cursor. 2. Tilt the Enter button to move the cursor to a 3. desired position.

Press the Enter button, and the cursor position is displayed as a stamp. Tip: · Activate the horizontal bar to remove the cursor/stamp display. · To remove the stamp, press the Effect3 button. Horizontal Bar This effect displays a horizontal line on the screen and allows you to move it up or down by remote control. 1. Press the Effect2 button to display a horizontal bar. 2. Tilt the Enter button up or down to move the horizontal bar up or down. Tip: · To remove the horizontal bar, activate the cursor/stamp. 38 Freezing and Deleting Images Freezing a Moving Image (Remote Control Only) You can freeze a moving image (video or other image).

1. Press the Freeze button on the remote control. (To release the freeze, press the Freeze button again.) Muting Images and Sound (Remote Control Only) You can temporarily mute images and sound and project a black or blue image. 1. Press the A/V Mute button on the remote control. (To cancel the muting feature, press the A/V Mute button or another button.) Tip: Using the Setting > A/V Mute menu, you can change the color (black, blue) of the image projected when audio and video have been muted (See page 48). 39 Displaying Help Screens You can display topic-specific help on screen for solving problems. Use this function when problems occur.

1. Press the Help button to start the help function. (Press the Help button again to cancel this function.) Tip: If you cannot solve your problem using the Help function, consult the "Troubleshooting" section in this manual (See page 53). Projector Remote control 2. Tilt the Select button on the projector up or Enter down to select a topic (on the remote control, tilt the Enter button up or down). Enter Projector Remote control 3. @@@@The menu can be controlled by the remote control. @@@@: Press the Enter button. : Tilt the Enter button left or right.

@@To close this menu, press the Menu button again. To close this menu, press the Menu button. All the settings will be saved when the menu is closed.

@@@@Adjust when broad vertical streaks appear in image. (Available for setting only when input signal is RGB).

@@* When tracking is wrong, adjustment of sync will not correct flickering. Always adjust tracking before adjusting sync. : setting available : setting not available Video Projection D-Sub15 Video Tracking* Sync.* 43 Menu Brightness Contrast* Color Tint Sharpness Gamma* Input Signal Auto Setup Mode Aspect Ratio Reset D-Sub15: Computer/Component video Video: Video image Video Projection Content D-Sub15 Video Adjusts image brightness. +:

Brightens image.

- : Darkens image. Adjusts difference in color brightness/darkness. +: Increases difference in color brightness/ darkness. - : Decreases difference in color brightness/ darkness. Adjusts color depth. +: Deepens color. - : Lightens color. Adjusts tint. +: Strengthens red. - : Strengthens green.

Adjusts image sharpness. +: Strengthens sharpness and defines image. - : Weakens sharpness and softens image. * If keystone correction makes unevenness distinctive, reduce the sharpness. Adjusts color of projected image. Dynamic : Increases contrast. (Used when projecting images containing text and graphics) Normal : Sets normal contrast. Natural : Weakens contrast to natural colors. (Used to give projected images a more natural look) Select the input signal of the computer/ component video in use. RGB: Computer images YUV*: Color difference* images YCbCr*: DVD images YPbPr*: HDTV images Optimizes computer input image.

@@@@Select the aspect ratio*. @@* See page 52 for factory shipping values. @@@@+: Increases volume. - : Decreases volume. Adjusts the tone of sound output from the projector.

+: Increases treble. - : Decreases treble. Select an audio input destination. @@@@Computer : Audio input from computer is selected. Video : Audio input from an A/V device is selected.

Returns Audio menu settings to factory shipping values. * See page 52 for factory shipping values. @@Shape : Select the shape of the cursor/stamp. Zoom

Rate : Select the display zoom factor for the cursor/stamp. @@Color : Select the horizontal bar color. @@Set the cursor speed. @@* See page 52 for factory shipping values. @@· A keystone correction reduces screen size. · The keystone correction is stored in memory. @@@@No-signal/Msg Set the screen display when there is no video signal.

OFF : No message is displayed. @@@@Black : A black screen is displayed. Blue : A blue screen is displayed. @@@@* See page 52 for factory shipping values. @@Select from Japanese, English, German, French, Italian, Spanish, Portuguese, Chinese and Korean. Use color temperature or RGB to create settings for the colors displayed on screen. Color Temp: Adjusts the color temperature* of the video. Select "Color Temp" and press the Enter button to create settings. The setting unit is Kelvins (K). + : Increases color temperature (strengthens blue).

- : Decreases color temperature (strengthens red). RGB: Adjusts red, green, and blue intensity. Select "RGB" and press the Enter button to create settings. + : Strengthens color. - : Weakens color.

This setting is used for projection from the rear of a screen. ON : Inverts a projected image vertically. OFF : Restores original. This setting is used for projection with the projector hanging from a ceiling. ON : Inverts a projected image vertically and horizontally.

OFF : Restores original. Returns Advanced menu settings to their factory shipping values. * See page 52 for factory shipping values. To reset all menus to factory shipping values, use the Reset All menu. Color Setting Rear Proj. Ceiling Reset 49 About Menu Displaying Menus Press the Menu button, use the Enter button to select "About" from the top menu displayed, and press the Enter button to move to a submenu. Setting and Display Information The settings information displayed in the About menu differs as shown below during video projection from a computer/component versus a video device.



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Computer/Component Video Projection Video Projection D-Sub15: Computer/Component video Video: Video image Menu Lamp Reset Lamp Timer Video Source Input Signal Frequency Content Displays cumulative lamp-on time. Sets cumulative lamp-on time to zero. Use this function when replacing the lamp.

Displays the source for the video displayed on screen. Displays a computer/component video input signal. Displays frequencies. H: Displays the horizontal scanning frequency. V: Displays the vertical scanning frequency. Displays sync polarity. Displays sync attributes. Displays input resolution. Displays refresh rate (vertical frequency). Displays an A/V device signal mode.

(When set to Auto in the menu, "Auto (NTSC)" is displayed.) : Display : No display Video Projection D-Sub15 Video SYNC Polarity SYNC Mode Resolution Refresh Rate Video Signal 50 Reset All Menu Displaying Menus Press the Menu button, and use the Enter button to select "Reset All" from the top-level menu displayed. Settings Menu Reset All Content Returns all menu settings to initial settings. (Lamp and language settings excluded) * Note that rear and invert settings will also be cleared by this operation. 51 Initial Settings List Initial settings at product shipment are shown below.

Main Menu Title Video (Computer/ Component Video) Submenu Title Position Tracking Sync. Brightness Contrast Sharpness Gamma Input Signal Auto Setup Aspect Ratio Position Brightness Contrast Color Tint Sharpness Gamma Mode Aspect Ratio Volume Tone Audio Input Cursor/Stamp Initial Settings Central value Dependent on the connected signal 0 Central value Normal RGB ON 4:3 Video (Video) Central value Normal Auto 4:3 Central value Auto Shape: Zoom Rate: 100% Width: 2 M Central value Blue ON Black OFF Audio Effect Setting Advanced Horizontal Bar Cursor Speed Keystone No-Signal Msg Prompt A/V Mute Sleep Mode Language Color Setting Rear Proj. Ceiling Color: Magenta Color Temp, (Computer/Component video: 7500K, Video: 6700K) OFF 52 Troubleshooting Possible Failures ...

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54 When Indicators Do Not Help

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..57 53 Possible Failures If you think your projector may have failed, first check the indicators on the unit. Your projector includes an "operation display indicator" and a "problem/alarm display indicator" which provide information on projector status. Problem/Alarm Display Indicator Operation Display Indicator Operation Display Indicator Indicator Status Steady orange Flashing orange Cause Standby status Cool-down in progress Remedy or Status (Not abnormal) Press the Power button to begin projection.

(Not abnormal) Please wait. Cool-down* time takes about 2 minutes. You cannot operate the Power button during cooldown. Press the button again after cool-down ends. Steady green Flashing green Projection in progress Warm-up in progress (Not abnormal) (Not abnormal) Please wait.

Warm-up time is approximately 30 seconds. After warm-up is complete, the flashing green indicator changes to steady green. If the lamp has been replaced, check that the lamp and lamp cover are attached securely. Check the power cord connections. Check power at the outlet. 25 See Page 24 31 25 Not lit No power 66 24 24 54 Problem and Alarm Display Indicator Indicator Status Steady red Cause High internal temperature Remedy or Status The lamp will turn off automatically and projection will stop. Wait for about 5 minutes without operating the projector. After 5 minutes, disconnect the power plug and connect it again. If the projector overheats, check the following two points. · Is the setting-up location well ventilated? Check that the air inlet and air outlet are clear, and that the projector is not positioned against a wall.

· Is the air filter blocked with dust? @@Press the power button to switch on the power supply. @@@@See page 24 ·

Have you turned the power off and then immediately on? See page 31 The Power button cannot be operated immediately after the projection has been switched off. The Power button becomes operable after cool-down* is complete. · Is Sleep Mode on? See page 48 If Sleep Mode is set to on and no video signal is input for 30 minutes, the projector lamp shuts off automatically. · Is video brightness adjusted correctly? See page 44 · Is "A/V Mute" mode active? See page 48 · Is the computer's screen saver on or is the computer in power save mode? No Display [A Message Appears] · Is the resolution of the video signal output from your computer higher than SXGA (1280x1024)? See page 19 · Check that the frequency of the video signal output from your computer is a compatible mode. See page 19 Consult your computer instruction manual for any changes to be made to the resolution or frequency of the video signal output from your computer. · Are the cables connected correctly? See pages 20, 21 · Have you correctly selected the video input port connected? See page 26 Press the Source button on the projector (Computer, Video, or S-Video on the remote control) to switch the video source. · Is power provided to a connected computer or A/V device? See page 26 · Is a video signal output from a connected computer or A/V device? · When using a laptop computer or integrated LCD-type computer, a video signal must be output to the projector. See page 27 A video signal is normally output only to an LCD screen, not externally. Switch the video signal to external output.

Some computer models do not display video on an LCD screen even when a video signal is output externally. Display shows "Not Supported". Display shows "NoSignal". 57 Carefully review sections such as "Providing External Output" and "Providing Output to an Externally Connected Monitor" in the instruction manual of the connected computer. Image is Unclear · Is the focus adjusted correctly? See page 29 · Is the projection distance optimal? See page 16 The recommended projection distance is 39. 37inches (1.0m) to 515.75inches (13.1m). Set up the projector in this range.

· Is the lens dirty? See page 64 · Is the projection beam facing the screen directly? See page 14 · Is the lens covered with condensation? If you carry the projector from a cold room into a warm room, the lens may become covered with condensation and the image may be blurred. After a short period, the image should return to normal. · Press the Auto button on the remote control. See page 30 · Have you adjusted Sync.*, Tracking*, and Position? See page 43 Use the menu to adjust. · Are the video signal mode settings correct? See page 44 Use the Menu > Video > Mode menu items to select a video signal format. Auto detection according to video signal input is not always possible. · Are the computer/component video signal settings correct? See page 44 Select the correct input signal settings by selecting Menu > Video > Input Signal.

· Is the lens dirty? See page 64 · Is the projection beam facing the screen directly? See page 14 · Is the lens covered with condensation? If you carry the projector from a cold room into a warm room, the lens may become covered with condensation and the image may be blurred. After a short period, the image should return to normal. · Press the Auto button on the remote control. See page 30 · Have you adjusted Sync.*, Tracking*, and Position? See page 43 Use the menu to adjust. · Are the video signal mode settings correct? See page 44 Use the Menu > Video > Mode menu items to select a video signal format. Auto detection according to video signal input is not always possible. · Are the computer/component video signal settings correct? See page 44 Select the correct input signal settings by selecting Menu > Video > Input Signal.

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RGB: Computer images YUV*: Color difference images YCbCr*: DVD images YPbPr*: HDTV images · Blurry image · Image only partially focused · Not focused at all 58 · Disturbed image · Noisy · Are cables connected correctly? See pages 20, 21 · Is the correct resolution selected? See page 19 Set your computer to provide a signal compatible with the projector. Consult your computer instruction manual with regard to modifying the signal.

· Press the Auto button on the remote control. See page 30 · Have you adjusted Sync*, Tracking*, and Position? See page 43 Use the "Menu" to adjust. · Are the video signal mode settings correct? See page 44 Use the Menu > Video > Mode menu items to select a video signal format. Auto detection according to video signal input is not always possible. · Are the computer/component video signal settings correct? See page 44 Select the correct input signal settings by selecting Menu > Video > Input Signal. RGB: Computer images YUV*: Color difference images YCbCr*: DVD images YPbPr*: HDTV images · Are you using an cable included or one sold separately? See page 70 · Are cables too long? A commercial video signal amplifier should be used with computer cables longer than 393.70inches (10m) · Image Disappears or is Undersized · Have you adjusted "Position"? See page 43 Use the Menu > Video > Position menu items to adjust. · Is the correct resolution selected? See page 19 Set your computer to provide a signal compatible with the projector.

Consult your computer instruction manual with regard to modifying the signal. · Change the resolution of your laptop or integrated LCDtype computer. See page 27 Change the resolution to provide a full LCD display, or provide the video signal only to the external output. · Has the computer been set for dual display? If dual display has been activated in the Display Properties of the computer's Control Panel, the projector will only project about half of the image on the computer screen. To display the whole of the image on the computer screen, turn off the dual display setting.

Refer to the video driver manual for the computer's monitor for further details. · Image Disappears · Undersized 59 Image Color is Poor · Is image brightness adjusted correctly? See page 44 · Are cables connected correctly? See pages 20, 21 · Is contrast* adjusted correctly? See pages 44 · Is color adjusted correctly? See page 49 · Are color depth and tint adjusted correctly? See page 44 (Video tint and display to a computer monitor or LCD may not match, but this is not abnormal.) · Does the lamp need replacement? See page 66 A nearly expired lamp can produce dark images or poor tint and should be replaced with a fresh lamp. · Are the computer/component video signal settings correct? See page 44 Select the correct input signal settings by selecting Menu > Video > Input Signal. RGB: Computer images YUV*: Color difference images YCbCr*: DVD images YPbPr*: HDTV images Images Are Dark · Does the lamp need replacement? See page 66 A nearly expired lamp can produce dark images or poor tint and should be replaced with a fresh lamp.

· Is image brightness adjusted correctly? See page 44 · Is contrast* adjusted correctly? See pages 44 There is No Sound · Are audio inputs connected correctly? See page 20 · Are audio outputs connected correctly? See page 23 · Have you selected the video whose audio you wish to output? See page 26 · Is volume adjusted to the minimum level? See page 30 · Is the A/V Mute function activated? See page 39 The A/V Mute mode may also be active. Press the Volume button to release the A/V Mute. · Is the audio input setup correct? See page 45 Select the correct audio signal by selecting Menu > Audio > Audio Input. 60 The Remote Control Does Not Operate · Is the remote control R/C switch set to On? See page 25 · Are you pointing the remote control in the correct direction for operation? See page 11 The range of operation is approximately 30° left or right and approximately 15° above or below the remote control sensor on the projector. · Is the remote control too far from the projector? See page 11 The operable distance is approximately 393.70inches (10m). · Is the remote control receiver on the projector blocked? · Is the remote control receiver in the path of direct sunlight or strong fluorescent light? · Are batteries in place? See page 12 · Are the batteries worn? See page 12 · Are the batteries inserted correctly? See page 12 Cannot Switch off (After Pressing the Power Button) OFF · The operation display indicator remains a steady orange. The operation display indicator of the projector is designed to remain lit even after power is switched off. When the plug is pulled out of the outlet, the operation display indicator will go out. · The fan does not stop.

After the Power button is pressed and power is turned off, cool-down* begins. After cool-down, the operation display indicator lights orange, and you should pull the plug out of the outlet. * Cool-down time takes about 2 minutes. 61 Maintenance Projector Cleaning, Lens Replacement, Air Inlet Cleaning

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..64 Lamp Replacement

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..66 63 Projector Cleaning, Lens Replacement, Air Inlet Cleaning Clean your projector when it is dirty or image projection is poor. Clean the air inlets every 100 hours in practice. Warning: · The projector cabinet should only be opened by trained service personnel. The projector contains several high voltage components which can cause electric shock.

For internal checks, repairs and cleaning, contact your dealer or the nearest address provided at "International Warranty Conditions" in "Safety Instructions/World-Wide Warranty Terms" included in the package. · Use care when handling the power plug and connector. Improper handling may cause fire or electric shock. When handling the plug, observe the following. · Do not insert a plug or connector into an outlet or port if it is dirty or holds foreign matter.

· Insert the plug and connector firmly and completely. · Do not pull out the plug or connector with wet hands. Caution: · Never attempt to remove the lamp immediately after use. · Heat may cause burns or other injury. · Wait approximately 60 minutes after switching off power and remove the lamp after the projector has cooled completely. · When performing operations, pull the power plug and connector out of the outlet and port respectively. Switch off power to the projector and disconnect the power cord before cleaning. Cleaning the Projector Unit · Wipe dirt from the projector lightly with a soft cloth.



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· For heavier dirt, wipe the projector lightly with a cloth soaked in a weak solution of mild detergent and wrung out thoroughly, then dry with a separate cloth. Do not use waxes, benzene, thinners, or other volatile substances.

These may degrade the cabinet or strip the finish. **Cleaning the Lens** Clean the lens with a commercial blower or lens cleaning paper. The surface of the lens is easily scratched and should not be rubbed or struck with hard objects. **64 Cleaning the Air Inlets** Accumulated dust in the air inlets degrades ventilation, increases the interior temperature, and can cause malfunction. To prevent debris from entering the air inlets, always stand the projector upright with the lens upward. Then use a vacuum cleaner or other equipment to suck dust from the inlets. Tip: If it is no longer possible to remove the dirt from the air inlets, it is time to replace them. Consult your vendor. **65 Lamp Replacement** Replace the lamp with a new lamp in the following instances. A replacement lamp is an optional part (sold separately).

(Model No: ELPLP16) [When the following message is displayed for 30 seconds after projection begins: "Lamp Replace. After the replacement of the lamp, reset the lamp timer under the direction in the user's manual."] A message will be displayed. [When the problem/alarm display indicator flashes red at 1-second intervals.] Problem/alarm display indicator flashes red at 1-second intervals [When brightness or picture quality is inferior to its original state.

] Tip: · If the lamp does not light, replace it even if the lamp life has not expired. · To maintain the original brightness and picture quality, replacement messages are set for approximately 1,400 hours. If you continue to use the lamp after this period, the possibility of the lamp breaking becomes greater. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working. · Though a replacement message appears at approximately 1,400 hours, individual lamp characteristics or usage conditions may cause failure before 1,400 hours, and we recommend that a replacement lamp be kept on hand.

· Contact your dealer for a spare lamp. Replacement Tip: · Install the lamp securely. For safety, when the lamp cover is opened, the abnormal warning display indicator flashes red, and the projector lamp goes out. If the lamp or lamp cover is installed improperly, the lamp will not light. **66 1.** Switch off power to the projector and disconnect the power cord after cool-down* ends. Cool-down time varies according to external temperature and other factors. **2.** After the projector has cooled completely, remove the lamp cover. · The projector requires approximately 60 minutes to cool completely.

· Press on the 2 catches and pull the cover out diagonally. **3.** Pull the lamp out. Use a screwdriver to loosen the two lamp retaining screws, then grasp the holds and pull the lamp out. **4.** Install a new lamp. Align the lamp properly, insert the lamp until it contacts the rear of the housing, and use a screwdriver to tighten the two lamp retaining screws firmly. **5.** Install the lamp cover. Insert the cover diagonally and press it into the projector until you hear the catches click into place.

Check that the catches are securely fastened. Tip: After lamp replacement, use the About menu to reset lamp time to its initial value (See page 50). **67 General Notes** Optional Accessories ...

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.....70 Glossary ..

.....
.....
.....

.....
.....
.....

....71 Specifications.....

.....
.....

.....
.....
.....

..73 External Dimensions.....

.....
.....

....75 Index .

.....
.....

.....
.....
.....
.....
.....
.....
.....

76 69 *Optional Accessories* The following optional accessories are available for purchase if required. Details of optional accessories listed here are current as of November 2001. Details of accessories are subject to change without notice. Soft carrying case ELPKS16 (type for storing a laptop computer) Use this case if you need to carry the projector by hand. Computer cable ELPKC02 (6 ft (1.8 m) - for mini D-Sub 15-pin/mini D-Sub 15-pin) Use to connect the projector to a computer when you would like to use UXGA display resolution. Soft carrying case ELPKS24 Use this case if you need to carry the projector by hand. Spare lamp Portable screen (50 inch) 60 inch screen 80 inch screen Mac adapter set ELPLP16 ELPSC06 ELPSC07 ELPSC08 ELPAP01 Use as a replacement for spent lamps. A compact screen which can be carried easily. Computer cable ELPKC09 (9.

8 ft (3 m) - for mini D-Sub 15-pin/mini D-Sub 15-pin) Computer cable ELPKC10 (65.6 ft (20 m) - for mini D-Sub 15-pin/mini D-Sub 15-pin) Use this extension cable if the accessory computer cable is too short. Component video cable ELPKC19 (9.8 ft (3 m) - for mini D-Sub 15-pin/RCA x 3) Use to connect a component video source. Use to connect the projector to a Macintosh computer when the accessory or optional computer cables cannot be used because the connector shapes are different.

Image presentation camera ELPDC02 ELPDC03 Use when projecting books, OHP films and slides. 70 Glossary This glossary provides brief explanations of terms which are used in this manual but are not explained in the text or difficult to understand. For details, refer to other available publications. Term A/V

Mute Description Refers to temporary stoppage of audio and video. Your projector provides this function when the A/V Mute button is pressed. When the A/V Mute button is pressed again or audio volume is adjusted, this function is released. 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. A type of video signal output by video equipment which actually consists of three separate signals: a red + luminance signal (R-Y), a luminance signal (Y) and a blue + luminance signal (B-Y). Each signal is transmitted along a separate cable. Color difference signals generally result in a better image than composite signals (in which the red, green and blue signals and the luminance signal are all transmitted along a single cable). The temperature of an object which is emitting light. If the color temperature is high, the colors tend to take on a bluish tinge. If the color temperature is lower, the colors tend to take on a reddish tinge.

The enhancing or weakening of differences in color lightness and darkness that provides a sharper or softer view of characters and images. This adjustment is referred to as contrast adjustment. After the Power button is pressed and the lamp goes out, lamp cooling is continued. After the lamp goes out, a cooling fan spins, and operational buttons become inactive. Cool-down time takes about 2 minutes. During image display, the difference of display colors depending on the device used is compensated. Refers to a 800-pixel (Pix) horizontal x 600-pixel (Pix) vertical display signal for an IBM PC/AT-compatible (DOS/V) computer. Refers to a 1280-pixel (Pix) horizontal x 1024-pixel (Pix) vertical display signal for an IBM PC/AT-compatible (DOS/V) computer.



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Signals output by a computer are output at a certain predetermined frequency. If the frequency of your projector cannot match that frequency, a clear image cannot be obtained.

Matching of signal phases (peak offset) is referred to as synchronization (synch). If synchronization is not achieved, a projected image displays jitters, blurring, and horizontal noise. Aspect ratio Color difference signal (component) Color temperature Contrast Cool-Down Gamma SVGA SXGA Sync (synchronization) 71 Term Tracking Description Signals output by a computer are output at a certain predetermined frequency. If the frequency of your projector cannot match that frequency, a clear image cannot be obtained. Matching of signal frequencies is referred to as matching tracking.

When tracking is not matched, a projected image displays broad vertical bands. An abbreviation for universal serial bus, an interface for connecting a personal computer with a relatively low-speed peripheral device. Refers to a 640-pixel (Pix) horizontal x 480-pixel (Pix) vertical display signal for an IBM PC/AT-compatible (DOS/V) computer. Refers to a 1024-pixel (Pix) horizontal x 768-pixel (Pix) vertical display signal for an IBM PC/AT-compatible (DOS/V) computer. @@@@This signal consists of three components, the luminance (Y), red minus luminance (U) and blue minus luminance (V). The human eye is more sensitive for changes in brightness than changes in color. By using this feature, the data volume assigned to the brightness is larger. To prevent a deterioration of the image quality, a high data compression rate is used. @@@@.

.....	21 A/V Mute	....
.....	
..	48 A/V Mute Button	..... 10, 39 About Menu .
.....	
...	50 Adjusting	..
.....	
.....	28, 30 Advanced Menu	....
.....	
.....	49 Air Inlet	...
.....	
.....	8 Aspect Ratio	.....
.....	
.....	44 Audio In Port	.....
.....	
.	9, 20 Audio Input	.....
.....	
.....	45 Audio Menu	.....
.....	
.....	45 Audio Out Port	.
.....		9, 23 Audio Ports .
.....	
.	9, 21 Auto Button	....
.....	
..	10, 30 Auto Setup	.....
.....	
.....	44 [B] Battery Cover	...
.....	
..	10, 12 Brightness	...
.....	
..	44 [C] Ceiling	.....
.....	
.....	49 Color	.....
.....	
.....	44 Color Setting	.
.....	
..	49 Compatible Mode	.....
.....	
.	19 Computer	.....
.....	
..	18 Computer Button	...
....	10, 26 Computer/Component Video Port	.....
.....	
.	9, 20 Connecting	....
.....	
...	20, 21 Contrast	.....

.....	44 Control Panel
.....
... 12	Cursor Speed
.....
.....	46 Cursor/Stamp
.....
. 38, 46	[E] Effect Button
.....	10, 38 Effect Menu
.....
.....	46 Enter Button
10, 34, 40, 42	Esc Button
.....	10, 34, 42 External Audio Device
.....	23 External Dimensions.
.....
.....	75 E-Zoom Button
.....
10, 36	[F] Focus Ring
.....	8, 29 Foot Adjust Lever
.....
.....	8 Freeze Button
.....
... 10, 39	Frequency
.....
... 50	Front Adjustable Foot
8, 28	[G] Gamma
.....
.....
.....	44 [H] Help Button
.....	9, 10, 40 Help Screens
.....
.. 40	Horizontal Bar
.....	38, 46 [I] Indicator
.....
... 10	Initial Settings
.....
.....	52 Input Signal
.....
.....	44, 50 Input/Output Ports
.....
. 8	Inserting Batteries
.....	12 [K] Keystone
.....
. 47	Keystone (Select) Button
.....
... 9, 29, 40	[L] Lamp
.....
.. 50	Lamp Cover
.....
.....	8 Lamp Replacement
.....
.....	66 Language
.....
.....
. 49	Laptop
.....
.....	27 Lens Cover
.....
.....
.....	8 76 [M] Macintosh
.....

35 Menu Button	
.	
10, 42 Mode	
.	
. 44, 50 Mouse Cable	
.	
. 35 Mouse/Com Port	
. 9, 35 [N] No-signal	
.	
. 47 [O] Operation Display Indicator	
. 8, 24, 25, 31, 54 Optional Accessories	
. 70 [P] Position	
.	
. 43 Power Button	
. 9, 10, 25, 31 Power Cord	
.	
. 24 Power Inlet	
. 8, 24 Problem/Alarm Display Indicator	
.	
. 8, 55, 66 Projection Distance	
.	
. 16 Prompt	
.	
.	
47 PS/2 Mouse Cable 35 [R] R/C Switch	
. 10, 25, 32 Rear Adjustable Foot	
.	
. 8 Rear Projection	
. 49 Refresh Rate	
.	
. 50 Remote Control	
. 10, 11 Remote Control Receiver	
. 8 Reset 44, 45, 46, 48, 49 Reset All Menu	
.	
. 51 Reset Lamp Timer	
. 50 Resolution	
.	
. 50 [S] Screen Size	
.	
. 16 Setting Menu	
.	
. 47 Setup Instructions	
. 15 Sharpness	
.	
.	
. 44 Sleep Mode	
.	
48 Source (Enter) Button 9, 26, 40 Speaker	
.	
. 8 Special Notes on Setup	
. 14 Specifications	
.	
. 73 Storage	
.	
.	
32 S-Video Button	

. . . .10, 26 S-Video Port
9, 21 SYNC Mode

 50 SYNC Polarity
50 Sync

43 [T] Term

 71 Tint

44 Tone

45 Tracking

 .43 [U] USB mouse Cable
35 USB mouse Port
9, 35 [V] Video Button

 .10, 26 Video Menu

 .43 Video Source

 50 Video Port

 .21 Volume

45 Volume Button
10, 30 [W] Wide/Tele Button

8, 37 Windows

 . . .35 Wireless Mouse

. . . . @@@@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.

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