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You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA TLP-S10. You'll find the answers to all your questions on the TOSHIBA TLP-S10 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

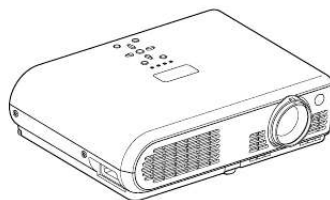
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TOSHIBA

OWNER'S MANUAL

3LCD DATA PROJECTOR

TLP-S10 (SVGA)



Before Using

Preparations

Operations

Maintenance

Others



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Manual abstract:

DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY. @@ Wash hands after handling. FCC Radio Frequency Interference Statement Note: This equipment has been tested and found to comply with the limits for a Class USA only A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiates radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. **WARNING:** Changes or modifications made to this equipment, not expressly approved by USA only Toshiba, or parties authorized by Toshiba, could void the user's authority to operate the equipment. Notice: This Class A digital apparatus complies with Canadian ICES-003. Cet appareil CANADA only numérique de la classe A est conforme à la norme NMB-003 du Canada. **IMPORTANT SAFETY INSTRUCTIONS Before Using CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.** This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing.

This unit is fully transistorized and does not contain any parts that can be repaired by the user. **DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.** 1. Read Owner's Manual After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.

3. Source of Light Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyes or sight. 2. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions. 4. Ventilation Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface.

This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. **WARNING:** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. **CAUTION:** Laser beam is emitted when the laser button of the remote control is pressed. Do not look at the laser beam directly from the front of the remote control. Do not turn the laser beam toward a person or to a mirror. 2 3 **IMPORTANT SAFETY INSTRUCTIONS (Continued)** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Do not use attachments not recommended by the product manufacturer as they may cause hazards. 15. Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product.

Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. 6. Water and Moisture Do not use this product near water.

- for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool and the like. 9. Overloading Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock. 12. Do not place the product vertically Do not use the product in the upright position to project the pictures at the ceiling, or any other vertical positions. It may fall down and dangerous.

7. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a soft cloth for cleaning.

10. Lightning storms For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges. 13. Stack Inhibited Do not stack other equipment on this product or do not place this product on the other equipment. Top and bottom plates of this product develops heat and may give some undesirable damage to other unit. S3125A 4 5 Before Using 5. Heat 8. Power-Cord Protection 11. Object and Liquid Entry 14.

Attachments **IMPORTANT SAFETY INSTRUCTIONS (Continued)** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a) When the power-supply cord or plug is damaged. b) If liquid has been spilled, or objects have fallen into the product. c) If the product has been exposed to rain or water. d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e) If the product has been dropped or damaged in any way. f) When the product exhibits a distinct change in performance this indicates a need for service. Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards.



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Refer all servicing to qualified service personnel. The heat from the unit could erase the information on the thermal paper, or cause deformation or warping.

19. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. (Replacement of the lamp only should be made by users.) 17. If glass components, including lens and lamp, should break, contact your dealer for repair service. This product incorporates glass components, including a lens and a lamp. If such parts should break, please handle with care to avoid injury and contact your dealer for repair service. The broken pieces of glass may cause injury. In the unlikely event of the lamp rupturing, thoroughly clean the area around the projector and discard any edible items placed in that area.

20. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. 6 7 Before Using 16. Damage Requiring Service 18. Servicing 21. Do not leave thermalpaper documents or easily deformed items on top of the unit or near the air exhaust for long periods of time. LABEL LOCATIONS MODEL NO. / RATING Label WARNING Label POWER SUPPLY CORD SELECTION Plug configuration Plug type EURO Line voltage 220 240V Plug configuration Plug type Australian 240V 10A Switzerland 240V 6A Line voltage 200 240V 200 240V UK SERIAL NO. Label MANUFACTURED; SERIAL NO. 220 240V Use a 5A fuse which is approved by ASTA or BSI to BSI362.

Always replace the fuse cover after changing the fuse. North American 200 240V 240V 15A CAUTION Label IMPORTANT PRECAUTIONS Save Original Packing Materials The original shipping carton and packing materials will come in handy if you ever have to ship your LCD projector. For maximum protection, repack the set as it was originally packed at the factory. CAUTION Label WARNING Label Moisture Condensation Never operate this unit immediately after moving it from a cold location to a warm location. When the unit is exposed to such a change in temperature, moisture may condense on the crucial internal parts.

To prevent the unit from possible damage, do not use the unit for at least 2 hours when there is an extreme or sudden change in temperature. Place and Manner of Installation · Do not place in hot locations, such as near heating equipment. Doing so could cause malfunction, and shorten the life of the LCD panel. · Avoid locations with oil or cigarette smoke. Doing so will dirty the LCD panel and other optical parts, shortening their lives, and darkening the screen.

· Do not place slantwise in angle of 20° or more. Doing so could shorten the life of the lamp. · Using this instrument near a TV or radio may cause interference to the images or audio sound. If this happens, move it away from the TV or radio. · Moving the projector from a low-temperature room to a high-temperature room may cause condensation on the lens or internal parts in the instrument. If you continue to use it in that situation, the malfunction may result. Ensure to wait until the condensation naturally disappears. · In a high altitude location where air is thin, cooling efficiency of the scanner is reduced so use it with the ambient temperature being lowered. 8 9 Before Using If your line voltage is 220 to 240V, use one of the following types of cable. IMPORTANT PRECAUTIONS (Continued) Avoid Volatile Liquid Do not use volatile liquids, such as an insect spray, near the unit.

Do not leave rubber or plastic products touching the unit for a long time. They will leave marks on the finish. If cleaning with a chemically saturated cloth, be sure to follow the product's precautions. EXEMPTION CLAUSES · Toshiba Corporation bears no responsibility in the case of damages arising from natural disaster such as earthquakes, lightning, etc., fire not liable to Toshiba Corporation, operating by third parties, other accidents, or use under abnormal conditions including erroneous or improper operation and other problems. · Toshiba Corporation bears no responsibility for incidental damages (lost profit, work interruption, corruption or loss of the memory contents, etc.) arising from the use of or the inability to use this unit. · Toshiba Corporation accepts no liability whatsoever for any damages arising from not having followed the descriptions in this Instruction Manual. · Toshiba Corporation a..

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39 List of supported signals (Video, S-Video signals)

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exe.

Follow the on-screen instructions. Macintosh: Run the CD-ROM, select the Reader/English folder, and run Reader Installer. Follow the on-screen instructions to install the software. (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) Name Infrared remote sensor Lens Focusing ring Air intake Tilt adjuster Lamp cover AC IN socket Foot adjuster Foot adjuster release button Control panel Air exhaust Speaker Anti-theft lock hole AUDIO terminal : I Viewing the manual Run the CD-ROM and double-click on Start.pdf. Acrobat® Reader™ launches, and the menu screen of the Owner's manual appears. Click on your language. The Owner's Manual cover and list of bookmarks appear. Click on a bookmark title to view that to view a reference page with related information. section of the manual.

Click on p. See the Help menu for more information about Acrobat® Reader™. (15) MONITOR terminal (16) COMPUTER terminal (17) VIDEO terminal (18) S-VIDEO terminal (19) CONTROL terminal Function Senses commands from the remote control. p.17 Projects expanded image. Adjusts screen focus. p.23 Draws in air from outside unit. Adjusts the projector's horizontal tilt. p.

23 Remove to replace lamp. p.34 Connect the supplied power cord here. p.20 Adjusts the vertical projection angle.

p.23 Press to stow the foot adjuster. p.23 Operates the projector. p.

16 Expels air that has grown hot inside the projector. Plays audio. Attach a security chain, etc. here. Feeds the audio signal from a computer or video equipment. Connected to the monitor display. Feeds the RGB signal from a computer or the component video signal (Y/PB/PR) from a video equipment. Feeds the video signal from a video equipment. Feeds the S-video signal from a video equipment. Connected to the RS-232C port on a controlling computer for operating the projector.

p.40 14 15 Preparations Names of each part on the control panel and remote control Control panel Remote Control CLASS 1 LED PRODUCT Preparing and using the remote control I Loading dry-cell batteries into the remote control q Remove the battery cover. I Operating the remote control Point the remote control toward the projector's infrared remote sensor, and press a button on the remote control. · Operating the projector from the front Remote control transmitter ON/STANDBY (15) (3) (7) (8) (9) (10) FAN TEMP LAMP ON CALL (1) AUTOSET KEYSTONE (4) MUTE FREEZE (11) RESIZE (12) INPUT ON/STANDBY ZOOM + (2) (1) CANCEL (14) INPUT MENU VOL. - (6) VOL. + VOL.ZOOM+ (2) MENU VOL.+ Be sure to align the plus and minus ends of the batteries properly. Approx. 15° App rox .

5m (5) KEYSTONE AUTO SET ZOOM. - (5) (6) (3) (4) ZOOM- · Operating the projector from the rear Two batteries (R03, SIZE AAA) are used. e Replace the battery cover. Name ON/STANDBY button INPUT button KEYSTONE button AUTO SET button MENU button Selection buttons FAN indicator TEMP indicator LAMP indicator ON indicator MUTE button FREEZE button RESIZE buttons CANCEL button CALL button : : : : : : : : : : : : : : Main Function Turns the power on/off (standby). p.

20 Selects input. p.22 Adjusts keystone (trapezoidal distortion). p.25 Sets up image and mode.

p.24 Displays menus and makes selections. p.29 Menu selections and adjustments, etc. p.29 Displays cooling fan mode. p.23 p.35 Lights when internal temperature too high. p.

35 Displays lamp mode. p.21 Displays whether power is on or off. p.20 Cuts off the picture and sound temporarily. p.26 Pauses image. p.26 Enlarges picture size. p.

27 Exiting the operation. p.28 Displays the information on the screen. p.28 Approx.

15° (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) App rox. 5m Dry-cell batteries · Before using the batteries, be sure to observe the Safety Precautions described in previous pages. · Remove batteries from remote control when not using for extended periods. · If the remote control stops working, or if its range decreases, replace all the batteries with new ones. The remote control · The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.

· Do not drop or bang. · Do not leave in hot or humid locations. · Do not get wet or place on top of wet objects. · Do not take apart. · In rare cases, ambient conditions could impede the operation of the remote control. If this happens, point the remote control at the main unit again, and repeat the operation. Note · For the remainder of this manual, buttons are referred to as follows: ; MENU button Selection buttons 16 17 Preparations (13) w Insert the dry-cell batteries.

Placement Placement Styles As shown in the figures below, this device can be placed in 4 different styles. The factory setting is "floor-mounted front projection." Set the placement style in the default setting menu p.

30 , in accordance with your needs. Floor-mounted front projection Floor-mounted rear projection Ceiling-mounted front projection Ceiling-mounted rear projection AC IN Connection Before connection · Read the owner's manual of the device to connect to the projector. · Some types of computer cannot be used or connected to this projector. Check for an RGB output terminal, supported signal p.38 , etc. · Turn off the power of both devices before connecting. · The figure below is a sample connection. This does not mean that all of these devices can or must be connected simultaneously. (Dotted lines mean items can be exchanged.) AC IN CRT monitor, etc.

Computer CAUTION · Always obey the instructions listed in IMPORTANT SAFETY INSTRUCTIONS when placing the unit. · If you wish to mount the projector on the ceiling, be sure to ask your dealer to do so. Mounting the projector on a ceiling requires special ceiling brackets (sold separately) and specialized knowledge. Improper mounting could cause the projector to fall, resulting in an accident. · If the projector is ceiling-mounted, install the breaker for turning off the power in case of anomaly.

Let everyone involved with the use of the projector know that.fact. To audio output Audio cable (for computer) (supplied) To RGB output RGB cable (supplied) AUDIO MONITOR COMPUTER(Y/PB/PR) VIDEO VIDEO S-VIDEO CONTROL Projection Distance and Screen Size Use the figures, tables, and formulas below to determine the screen size and projection distance. (Screen sizes are approximate values for full-size picture with no keystone adjustment) As seen from above Screen Monitor cable Mini D-sub 15P-BNC (not supplied) a= projection size (inches) 0.8668 25.

81 Audio cable (supplied) To Y/CB/CR output Green (Y) Blue (CB), Red (CR) S-Video cable (not supplied) Control cable Video cable (supplied) 90-< As seen from the side Lens center 90-< screen size projection distance a (m) (cm) 40 (102) 1.



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52 60 (152) 2.29 80 (203) 3.07 100 (254) 3.84 150 (381) 5.78 200 (508) 7.72 250 (635) 9.65 300 (762) 11.59 Yellow (to video output) To audio To audio output White (L) Red (R) Conversion output adapter White (L) Red (R) BNC-pin (not supplied) p.40 To S-Video output To RS-232C terminal DVD player VCR Computer (for control) a Note · The AUDIO terminal can be used with all the devices for input terminal.

a is the distance (m) between the lens and the screen, and corresponds to a range of 1.52 m to 11.59 m. 18 19 Preparations Operations Turning the power on and off Connecting the power cord Turning the power off 1 2 Insert the power cord connector into the AC IN socket of the projector. Insert the power cord plug into a wall or other power outlet. When the power cord is plugged in, the following three green indicators will come on for several seconds: ON, TEMP, and LAMP. Next, the ON indicator will change to orange, indicating standby mode. (Do not perform any operations while the 3 green indicators are on.) 1

Press the ON/STANDBY button. A message appears on the screen, confirming that you wish to shut off the power.

This message will disappear after a moment. (This operation is no longer valid after the message disappears.) 2 Press the ON/STANDBY button again. The screen turns off, but the internal cooling fan continues to operate for a short while. Then, the projector goes into standby mode.

When cooling lamp FAN (Green) During internal cooling FAN (Green) After cooling is completed FAN (Off) (Supplied) Power cord connector TEMP LAMP ON TEMP LAMP (Off) ON (Orange) TEMP LAMP (Off) ON (Orange) Removing the lens cover Be sure to remove the lens cover when the power is turned on.

If it is left on, it could become deformed due to heat. (Green) (Orange) Flashing A B C A B During cooling, the LAMP indicator flashes. In this state, the power cannot be turned back on. @@@@- VOL.

@@@@@Doing so could cause a fire due to internal overheating. @@@@@Keeping the lamp off is also very effective at saving electricity. @@@@@(If the screen is out of focus, adjust it according to the step 6.) q Lift up the front of the projector to the desired angle, then press the foot adjuster release button. The foot adjuster extends. Release the button to lock the position. 1 q Use the or buttons to select the desired language and press the button. Message for setup confirmation is displayed in a selected language. w Using the or button, select Standard or Low and press the button. The lamp power, if selected, will be toggled without button.

The display automatically pressing the disappears in a few seconds. English

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.. English Français ...
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. French Deutsch

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German Italiano
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. Italian Español

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. Spanish Português
..... Portuguese

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.....
Japanese

.. Chinese (simplified) Chinese (traditional) .

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... Korean w Turn the foot adjuster to fine-tune the angle. e To adjust the horizontal angle, use the tilt adjuster.

3 2 To stow the foot adjuster, hold up the projector while pressing the foot adjuster release button, then slowly lower the projector. 6 Adjust the picture size and focus. q Move the projector back and forth to adjust the screen size. w Use the focusing ring to adjust the focus. Notes · When the projector is turned on the next time, the Language and Lamp power menus do not appear upon startup. However, if "Reset all" is executed from the Reset menu p.31, the Language and Lamp power menus will be displayed the next time when the power is turned on · The language can also be set via the Display setting menu p.30 and Lamp power via the Default setting menu p.30. · This owner's manual assumes that English has been selected.

7 Adjusting the volume with the Notes buttons The speaker volume can be adjusted when an audio signal is being input. 3 Place connected device(s) in operating status. Turn on and boot up connected computers and other devices. 4 Select input. q Press the INPUT button. A list of inputs appears on the screen. w Use the buttons to select the desired input, and press the button. The picture for the selected input is projected. Computer Y/PB/PR Video S-video · Note that because of the lamp characteristics, the brightness of the lamp may fluctuate slightly. · A lamp is a consumable supply.

If used for extended periods, images will appear dark, and the lamp could burn out. This is characteristic of a lamp, and is not malfunction. (The lifetime of the lamp depends on conditions of use.) · The LCD panel is made using extremely advanced technology, but there may be black spots (pixels that do not light) or bright spots (pixels that are constantly lit) on the panel. Please note that these are not malfunctions.

· Although this projector supports a wide range of RGB signals p.38, any resolutions not supported by the model (XGA or SVGA, depending on the model) will expand or shrink the pictures, and will affect image quality slightly. To view high-quality images, it is recommended that the computer's external output should be set to the projector's resolution. · With some models of computer having LCD displays or the like, displaying images simultaneously on the projector and the monitor's display may cause the images to be shown improperly. If this happens, turn off the computer's LCD display.

For information on how to turn off the LCD display, see the owner's manual of your computer. · If a signal not supported by the projector is input, the icon will appear. icon will appear. · If a no signal is being input from the connected device, the icon will appear. · If an unavailable operation button is pressed, the 22 23 Operations Using handy features I Using auto setting (Auto setting) This function sets up the projector to the optimum state for each type of the input signal by using simple operations. Control panel Remote Control CALL ON/ STANDBY KEYSTONE AUTOSET I Correcting the keystone distortion (Keystone) FAN TEMP LAMP ON 1 Press the AUTO SET button. The Auto setting menu appears. INPUT ON / STANDBY ZOOM+ When the foot adjuster p.23 is used to change the projection angle, the picture will undergo keystone (trapControl panel ezoidal) distortion. This projector is capable of correcting

this keystone distortion.

FAN TEMP LAMP ON INPUT ON / STANDBY ZOOM+ Remote Control CALL ON/ STANDBY KEYSTONE AUTOSET MUTE FREEZE 2 Press the AUTO SET button again. The menu item is automatically adjusted/set. icon will appear during For computer input, the processing. MENU RESIZE Before correction INPUT After correction VOL. - VOL. - VOL. + MENU CANCEL MUTE FREEZE RESIZE KEYSTONE ZOOM- AUTO SET VOL. + CANCEL KEYSTONE ZOOM- AUTO SET INPUT Note · Auto adjustment/setting may not be performed correctly for input signals other than those supported by the projector p.



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1 Press the **KEYSTONE** button. The Keystone menu appears. G Manual adjustment and setting The menu items vary depending on the input type, as shown in the table below. buttons to adjust the items in the table below, then press Use the the button when you are finished. The menu disappears.

(The **CANCEL** button on the remote control also allows you to exit the menu mode.) Input Computer Item Phase Frequency Adjust with Description to eliminate flicker. Adjust with to eliminate periodic patterns and flickering when many vertical lines appear on the screen. Move left Move up Move right Move down or or . .

2 Use the buttons for keystone adjustment. On completing the adjustment, press the button to dismiss the menu (you can also use the **CANCEL** button on the remote control for menu dismissal). The trapezoidal distortion will be is displayed. automatically corrected. During the processing, the icon Item Keystone Description Shrink button of the screen Shrink top of the screen Notes · Depending on the amount of keystone adjustment and the content of images, some information may be lost, or the picture quality may suffer. · Keystone adjustment will not change the shape of the menus. Select Item H-position V-position Clamp 1 Clamp 2 I Zooming out the images This equipment is provided with the digital zoom (electric zoom: 100-80%). (Note that the display, if digitally zoomed out, may suffer from some degradation.) Adjusts the clamp pulse position with Adjusts the clamp pulse width with 1 Press the **ZOOM** button. Each time the **ZOOM** button is pressed, the image is reduced in size.

Control panel **FAN TEMP LAMP ON INPUT ON / STANDBY ZOOM+ Y/PB/PR Video S-video Phase Adjust with to eliminate flicker. Signal format [: Enter to setting mode] [: Select one of the following] [Apply:] 480i(525i)@60Hz/480p(525p)@60Hz/ 576i(625i)@50Hz/576p(625p)@50Hz/ 720p(750p)@60Hz/720p(750p)@50Hz/ 1080i(1125i)@60Hz/1080i(1125i)@50Hz/ 1035i(1125i)@60Hz/1152i(1250i)@50Hz Video mode [: Enter to setting mode] [: Select one of the followings] [Apply:] NTSC/PAL/SECAM/PAL-N/PAL-M/PAL60/NTSC4.43 Remote Control **RESIZE CANCEL** Select Item **INPUT MENU VOL. VOL. + ZOOM+ VOL.- MENU VOL.+ 2** Press the **ZOOM +** button to bring it back to the original size. Each time the **ZOOM +** button is pressed, the image size increases. (You cannot make it larger than the original size.) **KEYSTONE ZOOM- AUTO SET ZOOM-** Notes · Pressing either the **ZOOM** or **ZOOM+** button would display the icon.**

· The adjustment value will automatically be saved. Note · Moving pictures generated with the DVD software for computers may appear unnatural if it is projected with this projector, but it is not a malfunction. 24 25 Operations Using handy features (Continued) I Cutting off the picture and sound temporarily (Mute) When you want to project the images of another projector, overhead projector, etc. temporarily, this projector's images and sound can be turned off. I Enlarging the picture size (Resize) The image being projected can be enlarged.

1 Press the remote control's **RESIZE** Remote Control **CALL ON/ STANDBY KEYSTONE AUTOSET** button. button is pressed. Press the remote control's **MUTE** button. The picture and sound are cut off. The Mute function is released when pressing the **MUTE** button again. To cancel the command, press the **CANCEL** button. The enlargement ratio is increased each time the **RESIZE MUTE FREEZE** Notes · The icon will appear while mute is in effect. · Operating any other functions cancel the muting. **CANCEL 2** To decrease the enlargement ratio, press the remote control's **RESIZE** button. button is pressed. The enlargement ratio is decreased each time the **RESIZE** (The image cannot be shrunk to less than its original size.) **RESIZE INPUT I** Freezing the image (Freeze) The image being projected can be made to be frozen. This function is to be used to pause a video during a presentation, etc. Remote Control **CALL ON/ STANDBY KEYSTONE AUTOSET** Remote Control Press the remote control's **FREEZE** button. The picture pauses.

The Freeze function is released when pressing the **FREEZE** button again. To cancel the command, press the **CANCEL** button. 3 Press and hold down the move the enlarged area. buttons to **RESIZE MUTE FREEZE 2 4 CANCEL 1 INPUT RESIZE ZOOM + CANCEL VOL.INPUT MENU VOL. + 3 ZOOM -** Notes · The icon will appear while freeze is in effect. · The freeze function can be used on the resize function. Other operations will release the freeze. · Even if an image is frozen on the projector, the pictures are running on the video or other equipment. · If you use this function on video soft sold on the market, broadcast or broadcast on cable except for the purpose of your private viewing and listening, it may infringe the copyright protected by the copyright laws. 4 Press the **CANCEL** button to undo the resize. The resize is released, and the image returns to its original size. Notes · The icon will appear while resize is in effect. · An enlarged image can be frozen using the **FREEZE** button. The resize function on a frozen image can also be used.

· Operations other than freeze will cancel the resize. · Since the enlargement is performed using digital processing, enlarging will cause the image to appear jagged. · Rarely, the picture could become garbled while the enlarged area is being moved. · If you use this function on video soft sold on the market, broadcast or broadcast on cable except for the purpose of your private viewing and listening, it may infringe the copyright protected by the copyright laws. 26 27 Operations Using handy features (Continued) I Displaying Information [Status display] This displays information about the input signal, lamp use time, etc.

Using the menus You can call up on-screen menus, and conduct a number of adjustments and settings using the operation buttons p.16 on the control panel (main unit side) and remote control. Press the button twice (or press the **CALL** button on the remote control once). Remote When the button is pressed once, the Setting display menu appears. Pressing it again displays information p.29 . The table below shows what kind button (or of information is displayed. Press the press the **CALL** or **CANCEL** button on the remote control to serve the same purpose) again to dismiss the display. Control panel **FAN TEMP LAMP ON CALL I** How to use the menus The menu shown below is only for operation instructions and might be different from the actual display. Display the Setting display menu 1.

Start Control **ON/ STANDBY KEYSTONE AUTOSET INPUT ON / STANDBY ZOOM+** 2. Select a Category Select a category by using . There are following three categorys. Image adjustment menu p.30 Default setting menu Display setting menu p.



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30 p.31 MUTE FREEZE MENU RESIZE VOL. - VOL. + CANCEL KEYSTONE ZOOM- AUTO SET INPUT "Yes": displayed, "No": not displayed Displays the current adjustments of selected category. Item shown with gray cannot be adjusted with the current input source.

Finish via the Status display menu. Notes 1: The mode of supported RGB signals p.38 is shown. 2: Same as the refresh rate of the computer signal. 3: Sync signal polarity shown as P (positive) or N (negative) for [H/V].

4: Displays [Lamp time] as a measure of when the lamp should be replaced. (Cannot be used as a counter of guaranteed lamp time.) When the displayed time approaches 2,000 hours, consult with a store about getting a TLPLV3 replacement lamp (sold separately) prepared. 5: [Version] shows the version of the projector's internal control program. This version is referred to for customer service, etc.

These marks signify the items can be adjusted/set by using . These marks signify an item can be switched by using . This mark signify that there are options. Press to display a list of options. To Status display p.28 The figure shows a typical example. As the display may differ depending on the item, use the following pages as a reference. These marks signify the items can be selected from the list by using . After an item is selected, apply it by pressing . Notes · The displayed information will not be refreshed if the status changes.

To refresh the information, dismiss the display, then display it again. · Conducting another operation while information is being displayed dismisses the display. 6. End The menu disappears. 4. Back Note · Menu adjustments and settings are saved when the power is turned off via the ON/STANDBY button. If the power cable is disconnected before this, or the power goes out, then the data will not be saved. · You can also use the CANCEL button on the remote control to dismiss the menu display. 28 29 Operations Description Computer Y/PB/PR Input Input source name Yes Yes RGB signal mode RGB input mode [Note 1] Yes No H-resolution Horizontal resolution (in bits) Yes No V-resolution Vertical resolution (in bits) Yes No H-frequency Horizontal sync frequency Yes No V-frequency Vertical sync frequency [Note 2] Yes No Sync Sync signal polarity [Note 3] Yes No Signal format Y/PB/PR signal format No Yes Video mode Color method of video signal No No Lamp time Time of lamp use [Note 4] Yes Yes Yes Yes Version Firmware version [Note 5] Item Video Yes No No No No No No No Yes Yes S-video Yes No No No No No No No Yes Yes 3. Adjustments & Settings Press to open the menu of the selected category.

Item Adjustment/Setting Value 5. To Finish Using the menu (Continued) I The image adjustment menu Use this menu to adjust image-related items. Items that can be adjusted are marked with "Yes", and those that cannot are marked with "No". Item Contrast Brightness Color Tint [Note 1] Sharpness R-level G-level

B-level Description Lower Darker Lighter Reddish Softer Less red Less green Less blue Higher Brighter Deeper Greenish Sharper More red More green More blue Shift up Computer Yes Yes No No No Yes Yes Yes No Y/PB/PR Yes Yes Yes No Yes Yes Yes Yes Yes Video Yes Yes Yes Yes Yes Yes Yes S-video Yes Yes Yes Yes Yes Yes Yes Yes I The display setting menu Use this menu to set screen display-related items. Item Screen size Description (Full):

Display with LCD panel's resolution (Thru): Display with sampling resolution (for computer input) (Wide): Wide-screen display (for Video, S-video, and Y/PB/PR) Language Select one of the languages below to use for displaying menus and messages [: Enter setting mode] [:Selection] [Apply:]

English/Français/Deutsch/Italiano/Español/ Português/ / / / Screen to display when there is no input signal Display icons as function guides Display start-up screen when power turned on (Logo) On On (Blue) Off Off (None) Background Icon Start-up screen Up/down shift [Note 2] Shift down Notes 1: Tint can only be adjusted when Video mode p.

24 is set to NTSC or NTSC4.43. 2: Up/down shift can only be adjusted when Screen size p.31 is set Wide. Notes I The default setting menu This menu shows placement status and other settings.

Item Projection mode No signal power off Power on Description Sets projection mode in accordance with Placement Style p.18 (Placed on floor) (Rear) (Hung from ceiling) (Back hung from ceiling) Sets the period of time to wait until turning off the power after signal input stops: Off (not turned off) 1 min 2 min ... 60 min Sets whether to turn on the power when the ON/STANDBY button is pressed (Manual), or when the power cord is plugged in (Auto). Manual Auto Standard Low I Reset menu (Special menu) When other menus are not displayed and the button is held down, the menu appears. button to return all menu items to the factory settings. · Select Reset All and press the Item Reset all Description Reset all menu items to their factory settings [: Enter execution mode] [Yes No] [Apply:] Lamp power [Note 1] Sets the lamp power Note 1: When lamp power is set to low, the screen becomes a little darker, but the cooling fan noise gets quieter. Notes · Note that if Power on is set to Auto, then if the power cord is plugged in when power is restored after a power outage, the projector power will come on. · Even if Power on is set to Auto, press the ON/STANDBY button to turn off the power.

Unplugging the power cord to cut off the power will shorten the life of the lamp. 30 31 Operations · If "Thru" is selected for screen size, portions exceeding the pixel count of the LCD panel p.37 will not appear on the screen. Note that for RGB signals with clock speeds SXGA3_60 p.38 or lower, all input pixel signals are sampled. However, if the clock speed is higher than this, the RGB pixel signal is reduced before sampling. · Displaying the images with the aspect ratio different from the original with the purpose of other than the personal and private viewing, using the screen size menu may violate the copyright protected by the law. Maintenance Air filter cleaning The air filter prevents dust and debris from getting inside the projector. Never run the projector with the filter removed. It is recommended that the air filter is cleaned regularly.

"Check the air filter for dirt." is displayed every 100 hours. (If the · The icon message usage time exceeds 100 hours, this message is displayed for 30 seconds when the image is displayed for the first time after power is turned on. This display will be dismissed with any operation.) · Check out the filter and any debris is found, use the following procedure for cleaning.

Lens and main unit cleaning WARNING · Request cleaning and maintenance of a ceiling-mounted unit from your projector dealership.



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I Lens cleaning · Clean the lens with a commercially available blower and/or lens cleaner. · The lens is easily scratched, so do not rub it with hard objects, or strike it. WARNING · Request cleaning and maintenance of a ceiling-mounted unit from your projector dealership. 1 Unplug power cord.

2 Remove the air filter. Pull out the air filter by taking the catch shown in the figure. I Main unit cleaning · Clean the main unit after unplugging the power cord. · Wipe dirt off the main unit gently with a soft cloth. · If the soiling is severe, dip the cloth in a neutral detergent diluted in water, wring well, and gently wipe off the dirt, then finish up by wiping with a dry cloth. G Replacing air intake and exhaust fans, and air filter 3 Clean the filter. Carefully remove the dust and dirt from the air filter with a vacuum cleaner or the like. To maintain the performance, it is recommended that these should be replaced about every 2 to 3 years. Consult with your dealer for details. Lamp replacement A lamp is consumable supplies.

If used for extended periods, images will appear dark, and the lamp could burn out. This is characteristic of a lamp, and is not malfunction. (The lifetime of the lamp depends on condition of use. If this happens, replace it with a new one. WARNING · If the projector is mounted on a ceiling, request a lamp replacement from your projector dealership. · When replacing, always use lamp "TLPLV3" (sold separately). CAUTION Notes · Allowing dirt and dust to build up in the air filter will worsen the air circulation inside the projector, causing the internal temperature to rise, causing the projector to stop working or malfunction. · Insert the air filter all the way in. Leaving gaps will allow dust and dirt to get inside the projector again. · If you wash the air filter with water, make sure to dry it completely before replacing it.

· If the air filter is torn, consult with your dealer about replacing it with a new one. Continuing to use a ripped filter will allow dust and dirt to get inside the projector. · If you have been using the projector, the lamp will be very hot, and may cause burn injuries. Wait for the lamp to cool (for longer than 1 hour) before replacing it. · If the lamp should break, please handle with care to avoid injury due to broken pieces and contact your dealer for repair service.

1 Unplug power cord. 2 Wait until lamp is sufficiently cooled. Wait for at least 1 hour. 32 33 Maintenance 4 Replace the air filter. Others Lamp replacement (Continued) Trouble indications The indicator lights inform you of internal abnormalities.

3 Remove the lamp cover. Loosen the 2 screws, then pull up to the direction of the arrow with your fingers on the area shown in the figure to remove the lamp cover. 3 1 FAN TEMP LAMP ON No power Problem with projector · Unplug the power cord, and contact your dealer. (Off) 2 FAN TEMP LAMP ON Lamp went out during use, or won't come on Lamp temperature is high so that it is difficult to turn on, the lifetime of the lamp has ended or the projector is malfunctioning. · Unplug the power cord and wait for a short while, then turn the power back on. · If a lamp burns out, replace it with a new one. After approx. one minute of abnormal display, the projector returns to the standby state waiting for internal cool down. 4 Pull out the lamp. Loosen the 2 screws holding the lamp in place, and pull up the handle to remove the lamp.

(Red lit) (Red lit) 5 Mount the new lamp. Align the orientation, press down until the bottom is reached, and lock in place using the two lamp locking screws. 4 1 2 FAN TEMP LAMP ON Power went out during use Internal overheating, or the outside temperature is too high. · Place the projector so that the air intake and exhaust are not blocked. · Unplug the power cord and wait for a short while, then turn the power back on. · Clean the air filter. p.32 The icon will appear before the power goes out. After approx. one minute of abnormal display, the projector returns to the standby state waiting for internal cool down.

(Green lit) (Red lit) Or (Off) Or (Orange lit) Or (Green lit) (Red lit) 6 Replace the lamp cover. Align the cover, and press it in, then tighten the screws loosened in step 3 until the lamp cover is no longer loose. 2 5 1 FAN 7 Reset the lamp timer. See the lamp's manual for instructions on resetting the lamp timer. TEMP LAMP ON Power went out during use Problem with internal cooling fan.

· Unplug the power cord, and contact your dealer. The icon will appear before the power goes out. After approx. one minute of abnormal display, the projector returns to the standby state waiting for internal cool down. (Red lit or flashing) (Red lit) Or (Orange lit or flashing) Notes and Precautions · Press the button twice to display (a rough guide) the time of lamp use, the Lamp time item, in the Status display menu.

p.28 · It is recommended that the lamp should be replaced after 2,000 hours of use. When Lamp time reaches 2,000 hours, the icon and a message will appear. This display button disappears when you press · Attach the lamp cover correctly so that it is not loose. If it is not attached correctly, the lamp may fail to come on p.35 , and the lamp's lifetime may be shortened. · Always replace the lamp with a new one. · The lamp is made out of glass. Do not touch the glass surface with your bare hands, bang it, or scratch it.

(Dirt, jolts, scratches and the like could break the lamp.) FAN TEMP LAMP ON Power went out during use, or power won't come on The lamp cover is not properly attached. · Unplug the power cord, and reattach the lamp cover. p.34 After approx. @@@@If the lamp overheats, it may fail to light. @@@@Be careful not to break used lamps, and dispose it in accordance with local regulations. 34 35 Others Before calling service personnel If you think something is wrong, check the followings before contacting customer service. Please see "Trouble indications" p.35 as well.

If This Happens No power Power goes out during use No picture Check · Is the power cord plugged in? Is it connected to the projector? · Is the lamp cover loose? p.35 · Is the ambient temperature high? p.35 · Is the air filter clogged? p.35 · Is the air intake or air exhaust blocked? p.22

Specifications I List of general specifications Item Consumption Power Weight External Dimensions (including protruding parts) Cabinet material Conditions for usage environment Display method Panel size LCD Panel Drive system Picture elements Lens Lamp Projection screen size Projection distance Speaker COMPUTER terminal MONITOR terminal S-VIDEO terminal VIDEO terminal AUDIO terminal CONTROL terminal Specification 220 W 2.*



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2 kg 303 × 84 × 206 mm (W × H × D) PC+ABS resin and ABS resin Temp: 0°C to 35°C; relative humidity: 30% to 70% 3-panel transmission 0.5 type TFT active matrix 480,000 pixels (800H × 600V) F=1.8 High-pressure mercury lamp 40-300 type 1.52-11.59 m 1 W (Monaural) Mini D sub 15 pin RGB / Y/PB/PR (dual use) Mini D sub 15 pin RGB / Y/PB/PR (dual use) Mini DIN 4 pin RCA Pin Jack, 1 V (p-p), 75 3.

5mm dia. stereo mini-jack, 1.5V (rms); 22 k or more Mini DIN 8 pin (RS-232C) p.35 Is the projector turned on? p.26 Is the brightness setting minimized? p.30 Are the connections set up correctly? p.19 Are all the connected devices functioning properly? Is the projector turned on? Is the mute function on? p.26 Is the volume setting minimized? p.23 Are the connections set up correctly? p.19 Are all the connected devices functioning properly? Is the input signal supported by the projector? p.

38 , p.39 Is the correct video mode selected? p.24 Is the correct signal format selected? p.24 Is the selecting of computer or Y/PB/PR input correct? p.22 Is there something generating an abnormal video signal, for instance the video tape? p.22 No audio Picture not displayed correctly * Each plastic part displays the materials it is made from, in order to facilitate recycling after this product becomes no longer usable. Picture blurred Part of picture out of focus · Is the lens dirty? p.33 · Is the lens focus adjusted optimally? p.23 · Is the projection distance within the projector's supported range? p.18 · Is the projector's screen placement angle tilted too far? p.

18 · Are the sharpness or sampling phase adjustments off? p.24 p.30 Image is dark Colors too light Bad shading Remote control doesn't work · Are the brightness or contrast adjustments off? p.30 · Is the lamp nearing the end of its service life? p.30 · Are the color, tint, R-level, G-level, or B-level adjustments off? · Is the screen dirty? · Is the lamp nearing the end of its service life? p.

28 · · · p.30 Are the remote control's batteries drained? Are the batteries inserted into the remote control correctly? p.17 Is the remote control being used within the effective range? p.17 Are there any obstructions between the remote control and projector? · Are there any fluorescent or other bright lights shining at the projector's infrared remote sensor? Connection terminal 36 37 Others Specifications (Continued) I List of supported signals (RGB signals) This projector supports the following RGB signals. Note, however, that depending on the computer model, the screen may show flicker or streaking.

Please adjust the projector if this happens. (Press the AUTO SET button, and adjust automatically or manually. p.24) Resolution 720 x 400 640 x 480 Mode 720x400_85 VGA_60 VGA_72 VGA_75 VGA_85 SVGA_56 SVGA_60 SVGA_72 SVGA_75 SVGA_85 MAC16" XGA_43i XGA_60 XGA_70 XGA_75 XGA_85 MAC19" SXGA1_75 QuadVGA_60 QuadVGA_85 SXGA3_60 SXGA3_75 SXGA3_85 SXGA+ UXGA_60 UXGA_65 UXGA_70 UXGA_75 UXGA_85 1792x1344_60 1856x1392_60 1920x1440_60 Refresh rate (Hz) 85.039 59.940 72.809 75.000 85.008 56.250 60.

317 72.188 75.000 85.061 74.550 86.957 60.004 70.069 75.029 84.997 74.
700 75.000 60.000 85.002 60.020 75.
025 85.024 60.012 60.000 65.000 70.
000 75.000 85.000 60.000 60.000 H-frequency (kHz) 37.927 31.469 37.861 37.500 43.

269 35.156 37.879 48.077 46.875 53.674 49.725 35.522 48.363 56.476 60.
023 68.667 60.134 67.500 60.000 85.
938 63.981 79.976 91.146 63.973 75.
000 81.250 87.500 93.750 106.250 83.640 86.333 90.000 Clock (MHz) 35.500 25.175 31.

500 31.500 36.000 36.000 40.000 50.000 49.500 56.250 57.283 44.900 65.
000 75.000 78.750 94.500 79.857 108.
000 108.000 148.500 108.000 135.000 157.

500 118.094 162.000 175.500 189.000 202.500 229.500 204.750 218.250 234.000 I List of supported signals (Y/PB/PR signals) Signal format 480i(525i)@60Hz 480p(525p)@60Hz 576i(625i)@50Hz 576p(625p)@50Hz 720p(750p)@60Hz 720p(750p)@50Hz 1080i(1125i)@60Hz 1080i(1125i)@50Hz 1035i(1125i)@60Hz 1152i(1250i)@50Hz fh(kHz) 15.

73 31.47 15.63 31.25 45.00 37.50 33.75 28.13 33.75 31.25 fv(Hz) 59.
94 59.94 50.00 50.00 60.00 50.

00 60.00 50.00 60.00 50.00 800 x 600 I List of supported signals (Video, S-Video signals) Video mode NTSC PAL SECAM PAL-M PAL-N PAL-60 NTSC4. 43 fh(kHz) 15.73 15.63 15.63 15.73 15.63 15.73 15.73 fv(Hz) 60 50 50 60 60 60 fsc(MHz) 3.58 4.43 4.

25 or 4.41 3.58 3.58 4.43 4.43 832 x 624 1024 x 768 1152 x 864 1280 x 960 1280 x 1024 I Pin assignment of COMPUTER & MONITOR terminals 11 6 15 10 Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Pin description During RGB input During Y/PB/PR input Video signal (R) Color difference signal (PR) Video signal (G) Luminance signal (Y) Video signal (B) Color difference signal (PB) GND GND GND (R) GND (PR) GND (G) GND (Y) GND (B) GND (PB) N.C GND GND N.C Horizontal sync signal Vertical sync signal N.C 1400 x 1050 1600 x 1200 1 5 1792 x 1344 1856 x 1392 1920 x 1440 Mini D sub 15 Pin connector Input Signal · RGB input R/G/B signals: 0.

7V (p-p) 75 Horizontal sync signal: TTL level (Pos/neg polarity) Vertical sync signal: TTL level (Pos/neg polarity) · Y/PB/PR input Y signal: PB/PR signals: 1.0V (p-p) 75 0.7V (p-p) 75 Note · Signals whose resolution exceeds the LCD panel's number of pixels p.37 will be compressed. For this reason, some information may be lost, or image quality may be affected.

Do not connect anything. 38 39 Others Specifications (Continued) I CONTROL terminal G Pin assignment Pin No. 1 2 3 4 5 6 7 8 Signal Name RXD CTS DSR GND RTS N.C TXD N.C Description Receiving data Consent to send Data set ready Signal ground Request to send No connection Sending data No connection 7 8 5 4 2 1 6 3 Mini DIN 8 pin connector G Interface format 1 Communication method 2 Communication format 3 Data format 4 Replies Acknowledge No acknowledge RS-232C, 9600bps, No Parity, Data Length: 8 bits; Stop Bit Length: 1 bit STX (02h) Command (3Byte) ETX (03h) Only 1 command valid per communication.

For input commands, only ASCII-compliant all-uppercase alphanumeric characters supported. ACK (06h) CR (0Dh) Data ACK (06h) ESC (1Bh) NAK (15h) ... Normally ended ... Aborted If commands are to be sent consecutively, wait for the response from the projector before sending the next command. G Main Commands Item Power on Power off Icon display on Icon display off Auto setting (RGB input) Status display on Status display off Command PON POF MOO MOI PAT DON DOF Item Computer input select Y/PB/PR input select Video input select S-video input select Command IN1 IN2 IN3 IN4 Note · Contact your dealer for control cable and other commands. I Separately Sold Product Replacement Lamp Model TLPLV3 Note · Design, specifications, etc.

subject to change without notice for improvements, etc. 40 .



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