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You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI CP-X320. You'll find the answers to all your questions on the HITACHI CP-X320 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HITACHI CP-X320
User guide HITACHI CP-X320
Operating instructions HITACHI CP-X320
Instructions for use HITACHI CP-X320
Instruction manual HITACHI CP-X320

Liquid Crystal Projector USER'S MANUAL

Thank you for purchasing this liquid crystal projector.

Please read the accompanying manual "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" thoroughly to ensure correct usage through understanding. After reading, store this instruction manual in a safe place for future reference.

NOTE:

- The information in this manual is subject to change without notice.
- The manufacturer assumes no responsibility for any errors that may appear in this manual.
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ENGLISH

ENGLISH-1



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Manual abstract:

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Little space is required for installation and large images can easily be realized. · Outstanding brightness The UHB lamp and high-efficiency optical system assure a high level of brightness. · Partial magnification function Interesting parts of images can be magnified for closer viewing. · Distortion correction function Distortion-free images are quickly available. BEFORE USE Contents of package Make sure all of the following items are included in the package.

If anything is missing, please contact your dealer. NOTE: Keep the original packing material for future reshipment. Power Cord US Type Projector 000000000000 USER'S MANUAL Please read this user's manual thoroughly to ensure correct usage through understanding. Power Cord UK Type Power Cord Europe Type BEDIENUNGSANLEITUNG Bitte lesen Sie diese Bedienungsanleitung zugunsten der korrekten Bedienung aufmerksam. MANUEL D'UTILISATION Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

MANUAL D'ISTRUZIONI Vi preghiamo voler leggere attentamente il manuale d'istruzioni in modo tale da poter comprendere quanto riportato ai fini di un corretto utilizzo del proiettore. MANUAL DE USUARIO Lea cuidadosamente este manual del usuario para poder utilizar correctamente el producto. GEBRUIKSAANWIJZING Lees voor het gebruik alstublieft deze handleiding aandachtig door, om volledig profijt te hebben van de uitgebreide mogelijkheden.

BRUKERHÅNDBOK Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk. INSTRUÇÕES DO PROPRIETÁRIO Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do usuário. NEDERLANDS ESPAÑOL ITALIANO FRANÇAIS DEUTSCH ENGLISH Liquid Crystal Projector TECHNICAL REGULATORY NOTICES User's Manual (this manual) Handle TECHNICAL PORTGÊS RGB Cable Video/Audio Cable Mouse cable (PS/2) NORSK STANDBY/ON LASER VIDEO BLANK RGB AUTO MENU POSITION MENU SELECT RESET FREEZE

MAGNIFY OFF MUTE VOLUME Safety Instructions TIMER Batteries for Remote Control Transmitter Remote Control Transmitter Carrying Bag ENGLISH-2 B E F O R E U S E (c o n t i n u e d) Speaker Zoom Knob Focus Ring Handle Hook Power Switch AC Inlet (to the Power Cord) Ventilation Openings (Intake) Lens Slide Lens Door Foot Adjuster FRONT/LEFT VIEW OF THE PROJECTOR Remote Control Sensor Control Panel (Refer to P.9 "OPERATIONS") STANDBY/ON Button MUTE Button INPUT Button LAMP Indicator TEMP Indicator POWER Indicator RESET Button MENU Button Foot Adjuster Button Air Filter and Intake (for the Cooling Fan) Rear Foot Adjuster REAR/RIGHT VIEW OF THE PROJECTOR Ventilation Openings (exhaust) Terminal Panel (Refer below) Remote Control Sensor RGB IN 1 Terminal RGB IN 2 Terminal S-VIDEO Terminal VIDEO IN Terminal AUDIO IN L Terminal 1 RGB IN 2 AUDIO IN R Terminal AUDIO IN 1 Terminal AUDIO IN 2 Terminal AUDIO OUT Terminal AUDIO IN VIDEO IN S-VIDEO IN AUDIO 1 IN 2 AUDIO OUT USB RGB OUT CONTROL CONTROL Terminal RGB OUT Terminal USB Terminal TERMINAL PANEL ENGLISH-3 ENGLISH Part Names BEFORE USE (continued) Part Names (continued) VIDEO button STANDBY/ON button BLANK button DISK PAD Used to operate the mouse shift function and left click function. STANDBY/ON LASER RGB BLANK VIDEO LASER button RGB button MOUSE / RIGHT button Used to click the right mouse button. POSITION button O A U T N U M E M E N U S E L P O S I T I O N A U T O button MENU button MENU SELECT button Used to click the left mouse button.

RESET button Used to click the right mouse button.

ECT ET RES FREEZE button EZ FRE E VOL NIFY MAG OFF UME TE MU T R IME VOLUME button MUTE button TIMER button , , button Used to operate the mouse shift function. MAGNIFY button REMOTE CONTROL TRANSMITTER (Refer to P.9 "OPERATIONS") : These functions works when the mouse control function is activated. Remember, the POSITION, BLANK ON and MENU ON functions disable the mouse control function. WARNING The laser pointer of the remote control transmitter is used in place of a finger or rod. Never look directly into the laser beam outlet or point the laser beam at other people. The laser beam can cause vision problems. CAUTION LASER RADIATION DO NOT STARE INTO BEAM WAVE LENGTH: 650nm MAX .

OUTPUT: 1mW CLASS 2 LASER PRODUCT RADIAZIONI LASER NON GUARDARE NEL RAGGIO LUCE APPARECCHIO LASER DI CLASSE 2 RAYONNEMENT LASER MANUFACTURED NE PAS REGARDER DANS LE FAISCEAU APPAREIL A LASER DE CLASSE 2 LASER-STRAHLUNG PLACE OF MANUFACTURER:A NICHT IN DEN STRAHL MADE IN JAPAN BLICKEN LASER KLASSE2 IEC60825-1:1993+A1:1997 NOTE: To prevent any malfunction; · Do not give the remote control transmitter any physical impact. Take care not to drop.

· Do not place the heavy objects on the remote control transmitter. · Do not wet the remote control transmitter or place it on any wet object. · Do not place the remote control transmitter close to the cooling fan of the projector. · Do not disassemble the remote control transmitter in case of malfunction. Please bring it to the service station.

ENGLISH-4 B E F O R E U S E (c o n t i n u e d) Install the AA batteries into the remote control transmitter. 1. Remove the battery cover. Push the knob while lifting up the battery cover. 2. Load the batteries.



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Make sure the plus and minus poles are correctly oriented. 3. Close the battery cover. 1 2 CAUTION · Use only the specified batteries with this remote control transmitter. Also, do not mix new and old batteries. This could cause in battery cracking or leakage, which could result in fire or personal injury. ·

When loading the batteries, make sure the plus and minus terminals are correctly oriented as indicated in the remote control transmitter. Incorrect orientation could cause battery cracking or leakage, which could result in personal injury or pollution of the surrounding environment. · When you dispose the battery, you obey the law in the relative area or country.

· Keep the battery away from children and pets. · When not to be used for an extended period, remove the batteries from the remote control transmitter.

NOTE: Replace the batteries when remote control transmitter operation becomes difficult. Fixing the Handle Fix the enclosed handle if you need. 1. Raise up the handle hook, and pass one end of the handle through the hole of handle hook. 2. Buckle the end of the handle, as the right drawing. 3. Fix the other end of the handle to the other handle hook in the same way.

1 2 CAUTION Make sure the handle is fixed before carrying the projector with the handle. If the projector should be dropped from the handle should be off, it could result in an injury, and continued use could result in fire or electrical shock. Do not flourish the projector with the handle. ENGLISH-5 ENGLISH Loading the Battery INSTALLATION Installation of the Projector and Screen Refer to the drawing and table below for determining of the screen size and projection distance. a: Distance from the LCD projector to the screen.

The projection distances shown in the table below are for full size (1024 x 768 dots). Table 1. Installation Reference TOP VIEW Screen size (inches) 40 60 80 100 120 150 200 a (inches) Min. 65 98 131 163 196 246 328 Max. 78 117 157 196 236 295 394 a SIDE VIEW CAUTION · Install the projector in a suitable environment according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.

· Please basically use liquid crystal projector at the horizontal position. If you use liquid crystal projector by the lens up position, the lens down position and the side up position, this may cause the heat inside to build up and become the cause of damage. Be especially careful not to install it with ventilation holes blocked. Angle Adjustment Use the foot adjuster on the bottom of the projector to adjust the projection angle. It is variable within 0° to 9° approximately.

Foot Adjuster Press the foot adjuster button Rear Foot Adjuster 1. Lift up the front side of the projector, and pressing the foot adjuster button, adjust the projection angle. 2. Release the button to lock at the angle to be fixed. 3.

Turn the rear foot adjuster to adjust the left-right slope. CAUTION Do not release the foot adjuster button unless the projector is being held; otherwise, the projector could overturn or the fingers could get caught and cause personal injury. ENGLISH-6 INSTALLATION (continued) RGB signal input: Connect the RGB IN 1 or 2 terminal of the projector to the RGB signal output of the computer by the enclosed RGB cable. For some modes, the optional Mac adapter is necessary. Consult your dealer to connect with the Apple computer. Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector. Audio signal input (from computer) : Connect the AUDIO IN 1 or 2 terminal of the projector to the audio signal output of the computer by the optional audio cable. Vegins and the Power indicator blinks in green. 4.

The Power indicator ceases blinking and turns to green when power is on. Open the slide lens door. 5. Adjust picture size using the projection lens Zoom Knob. 6.

Adjust focus using the projection lens Focus Ring. STANDBY/ON Button POWER Indicator STANDBY/ ON Button STANDBY/ON LASER VIDEO BLANK RGB Zoom Knob AUTO MENU POSITION Focus Ring MENU SELECT RESET FREEZE MAGNIFY VOLUME OFF MUTE Power Switch Slide Lens Door Switching Power OFF 1. Press the STANDBY/ON button on the control panel or the remote control transmitter for approximately two second. The projector lamp is extinguished and lamp cooling begins. The Power indicator blinks orange during lamp cooling.

Pressing the STANDBY/ON button has no effect while the Power indicator is blinking. 2. The system assumes the Standby mode when cooling is complete, and the Power indicator ceases blinking and changes to orange. Check that the indicator is orange and set the Power switch to [O]. 3. The Power indicator is extinguished when power is off. Do not forget to close the lens door. WARNING Please read this manual, and the separate "SAFETY INSTRUCTIONS" thoroughly before using the equipment. Always ensure that the equipment is used safely. NOTE: · Except in emergencies, do not turn off unless the Power indicator is orange as it will reduce the life of the projector lamp.

· To prevent any trouble, turn on/off the projector when the computer or video tape recorder is OFF. Providing a RS-232C cable is connected, turn on the computer before the projector. ENGLISH-9 ENGLISH Switching the Power Supply ON/OFF OPERATIONS (continued) Basic Operation The Basic operations shown in Table 2 is performed from the projector control panel or the supplied remote control transmitter. (items indicated by * may be used from the control panel) NOTE: Use the remote control transmitter at a distance of approximately 3m from the sensor on the front of the projector, and within a range of 30° left-right. Strong light and obstacles will interfere with operation of the remote control transmitter. Table 2 . Basic Operation Item Description Changes in input signal in sequence: Press INPUT RGB1 RGB2 VIDEO S-VIDEO (RGB1) button.* Select RGB input: Press RGB button. INPUT SELECT VIDEO/S-VIDEO RGB1/RGB2 RGB1/RGB2 VIDEO/S-VIDEO RGB2 RGB1 S-VIDEO VIDEO Select VIDEO/S-VIDEO input: Press VIDEO button. · The selected signal name is displayed for approximately three seconds when the input signal is changed.

Set/Clear position adjustment mode: Press POSITION button. The [] icon is displayed in the POSITION mode. Image position adjustment: Press the , , and buttons in the position adjustment mode. · Valid only in the MAGNIFY mode with VIDEO/S-VIDEO input. · The [] icon is extinguished, and the position adjustment mode cleared automatically, after approximately ten seconds of inactivity.

, , and buttons may operate as the mouse control button. Refer to P.4. Initialise menu items: Select an item and press the RESET button. Initialise position adjustment: Press the RESET button and the POSITION mode.

Valid only when RGB signal is input.



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· Valid except for VOLUME, LANGUAGE and H PHASE. · RESET button may operate as the mouse control button. Refer to P.4. Set MAGNIFY mode: Press the MAGNIFY button. Move magnified area: Run Position Adjustment in MAGNIFY mode. Adjust magnification: Press MAGNIFY / in MAGNIFY mode. Clear MAGNIFY mode: Press MAGNIFY button. · MAGNIFY is cleared by running or setting AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal.

OFF POSITION RESET * MAGNIFY FREEZE Set/Clear FREEZE mode: Press FREEZE button. The [II] icon is displayed, and the image frozen, in the FREEZE mode. · FREEZE is cleared by running or setting POSITION, VOLUME, MUTE, Auto Adjust, BLANK ON/OFF, or MENU ON/OFF, or by changing the input signal. · Do not forget to clear frozen static images. ENGLISH-10 OPERATIONS (continued) Item VOLUME MUTE * Description Volume adjustment : Reduce VOLUME Set/Clear Mute mode: Press the MUTE No sound is heard in the MUTE mode. Increase VOLUME button. AUTO TIMER ON/OFF BLANK ON/OFF MENU ON/OFF * Automatic adjustment at RGB input: Press the AUTO button. Horizontal position(H.POSIT), vertical position (V.POSIT), clock phase (H.

PHASE), and horizontal size(H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. Automatic adjustment at VIDEO/S-VIDEO input: Press the AUTO button. A signal type appropriate for the input signal is selected automatically.

Valid only when AUTO is set for VIDEO on the menu. · This operation requires approximately ten seconds. It may not function correctly with some input signals. Timer start/stop: Press the TIMER button. Count-down and display by the minute from the initial value (1~99) set in TIMER on the Options menu to 0.

· The timer is not displayed in the BLANK MODE or FREEZE MODE. Set/Clear Blank mode: Press the BLANK button. No image is displayed in the Blank mode. The screen color is as set in BLANK on the Image menu. Menu display start/stop: Press the MENU button. · The menu display is terminated automatically after approximately ten seconds of inactivity. Select menu type: Press the MENU SELECT button. Allows the user to select the normal menu or the single menu. Only the selected item is displayed on the single menu, and other items are displayed with the and buttons as with the normal menu. · Valid only when the Setup menu is used.

Push the MENU SELECT button after selecting items such as "BRIGHTNESS". · MENU SELECT button may operate as the mouse control button. Refer to P.4. MENU SELECT Normal menu (MENU SELECT) SETUP INPUT IMAGE OPT. 0 -2 100 100 +1 800 0 0 BRIGHT CONTRAST V POSIT H POSIT H PHASE H SIZE COLOR BAL R COLOR BAL B ASPECT Single menu CONTRAST -2 ENGLISH-11 ENGLISH Table 2. Basic Operation (continued) OPERATIONS (continued) Setup Menu The following adjustments and settings are possible when SETUP is selected at the top of the menu. Part of the Setup menu differs between RGB input and VIDEO/S-VIDEO input. Select an item with the and buttons, and start operation. Use the Single menu to reduce menu size (see Table 2, MENU SELECT).

SETUP INPUT IMAGE OPT. 0 -2 100 100 +1 800 0 0 SETUP INPUT IMAGE OPT. 0 +1 +1 0 0 0 BRIGHT CONTRAST V POSIT H POSIT H PHASE H SIZE COLOR BAL R COLOR BAL B ASPECT BRIGHT CONTRAST SHARPNESS COLOR TINT COLOR BAL R COLOR BAL B ASPECT RGB VIDEO/S-VIDEO Table 3. Setup Menu Item BRIGHT CONTRAST V POSIT H POSIT H PHASE Adjustment: Dark Adjustment: Weak Adjustment: Down Adjustment: Left Description Light Strong Up Right RGB S-VIDEO VIDEO - Adjustment: Left Right · Adjust to eliminate flicker. Adjustment: Small Large · The image may not be displayed correctly if the horizontal size is excessive.

In such cases, press the RESET button, and initialize the horizontal size. Clear Dark H SIZE SHARPNESS Adjustment: Soft COLOR TINT Adjustment: Light Adjustment: Red Green · Valid only when NTSC or NTSC 4.43 signal is received. Dark Dark COLOR BAL R Adjustment: Light COLOR BAL B Adjustment: Light Select image aspect ratio: 4:3[] 16:9[] Select position of image: Press button while 16:9[] is selected. Center Down Up (Center) ASPECT Select image aspect ratio: 4:3[] 16:9[] 4:3 small[] Select position of image: Press button while 16:9[]/4:3 small[] is selected.

Center Down Up (Center) · 4:3 small may not be displayed correctly with some input signals. - - ENGLISH-12 OPERATIONS (continued) SETUP RGB VIDEO AUTO INPUT IMAGE fH:38kHz fV:60Hz OPT. The following functions are available when INPUT is selected on the menu. @@@@ · Valid only at RGB input. @@@@ · Use this function when the image becomes unstable (eg. the image becomes irregular, or lacks color). · Auto Adjust requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem. Automatic adjustment at RGB input: Select EXECUTE with the button.

@@@@ Use with the window at maximum size in the application display. @@@@ Valid only if AUTO is selected in VIDEO (see above). · This operation requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem.

@@@@+1 KEYSTONE BLANK MIRROR START UP Table 5. @@@@ Select blank screen color: Select color with the and buttons. @@@@ MIRROR Operation start/stop: Press the or button. @@@@ Setup initial screen display: Select TURN ON with the button. Clear initial screen display: Select TURN OFF with the button.

@@@@ 128 The following adjustments and settings are available when OPT. is selected on the menu. @@@@ Setup initial timer value: Set 1~99 minutes with the and buttons. Operation start/stop: Press the or button. @@@@ Set AUTO OFF: Set 1~99 minutes with the and buttons.

@@@@ Clear AUTO OFF: Select STOP (0 min.) with the button. @@@@ Operation start/stop: Press the or button. SYNC ON G valid: Select TURN ON with the button. SYNC ON G invalid: Select TURN OFF with the button.

@@@@@ Select Mirror status: Select mirror status with and buttons. START UP Operation start/stop: Press the or button. Setup initial screen display: Select TURN ON with the button. Clear initial screen display: Select TURN OFF with the button. · Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal. Select menu background color: Select with the Operation start/stop: Press the or button. Setup initial timer value: Set 1~99 minutes with the Operation start/stop: Press the or button. Select menu display language: Select with the and and and buttons. buttons. buttons.

MENU COLOR TIMER LANGUAGE AUTO OFF Operation start/stop: Press the or button. Set AUTO OFF: Set 1~99 minutes with the and buttons.

@@@@ Clear AUTO OFF: Select STOP (0 min.) with the button. @@@@ Operation start/stop: Press the or button.



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SYNC ON G valid: Select TURN ON with the button. SYNC ON G invalid: Select TURN OFF with the button. @@In such cases, remove the signal connector so that no signal is received, set SYNC ON G to invalid, and reconnect the signal. SYNC ON G ENGLISH-16 MAINTENANCE HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE Contact your dealer before replacing the lamp. (Option lamp: DT00331) Before replacing the lamp, switch power OFF, remove the power cord from the power outlet, and wait approximately 45 minutes until the lamp has cooled.

The lamp may explode if handled at high temperatures. WARNING · For disposal of used lamp, treat according to the instruction of Lamp community authorities. · Since the lamp is made of glass, do not apply shock to it and do not scratch it. · Also, do not use old lamp. This could also cause explosion of the lamp.

· If it is probable that the lamp has exploded (explosive sound is heard), disconnect the power plug from the power outlet and ask Reflector Front your dealer to replace lamp. glass The lamp is covered by front glass , but, in rare cases, the reflector and the inside of the projector may be damaged by scattered broken pieces of glass, and broken pieces could cause injury when being handled. · Do not use the projector with the lamp cover removed. Lamp Life Projector lamps have a finite life. The image will become darker, and hues will become weaker, after a lamp has been used for a long period of time.

Replace the lamp if the LAMP indicator is red, or the CHANGE THE LAMP message (see P.20 Table 8) appears when the projector is switched ON. NOTE: The LAMP indicator is also red when the lamp unit reaches high temperature. Before replacing the lamp, switch power OFF, wait approximately 20 minutes, and switch power ON again. If the LAMP indicator is still red, replace the lamp. ENGLISH-17 ENGLISH Lamp MAINTENANCE (continued) Replacing the Lamp 1. Switch the projector OFF, remove the power cord from the power outlet, and wait at least 45 minutes for the unit to cool. 2. Prepare a new lamp. 3.

Check that the projector has cooled sufficiently, and gently turn it upside down. 4. Loosen the two screws as shown in the diagram, and remove the lamp cover. 5. Loosen the three screws, and gently remove the lamp while holding the grips. Touching the inside of the lamp case may result in uneven coloring. 6. Install the new lamp and tighten the three screws firmly. Also steadily push the opposite side of the screwed lamp into the unit. 7.

Replace the lamp cover in position and tighten the two screws firmly. 8. Gently turn the projector right-side up. CAUTION · Ensure that screws are tightened properly. Screws not tightened fully may result in injury or accidents.

· Do not use the projector with the lamp cover removed. Resetting the Lamp Timer Reset the lamp timer after replacing the lamp. When the lamp has been replaced after the LAMP indicator is red, or the CHANGE THE LAMP message is displayed, complete the following operation within ten minutes of switching power ON. The power will be turned off automatically in over 10 minutes. 1.

Switch power ON, and press the TIMER button on the remote control transmitter, or the RESET button on the control panel, for approximately three seconds. The 'LAMP xxx hr' message will appear on the lamp timer on the bottom of the screen. 2. Press the MENU button on the remote control transmitter, or the RESET button on the control panel, while the lamp timer is displayed. The 'LAMP xxx 0 I CANCEL' message will then appear. 3. Press the and select 0, and wait until the timer display is cleared. NOTE: Do not reset the lamp timer without replacing the lamp. Reset the lamp timer always when replacing the lamp. The message functions will not operate properly if the lamp timer is not reset correctly.

ENGLISH-18 MAINTENANCE (continued) The air filter should be cleaned as described below at intervals of approximately 100 hours. 1. Switch the projector power supply OFF, and remove the power cord from the power outlet. 2. Clean the air filter with a vacuum cleaner. CAUTION · Switch power OFF and remove the power cord from the power outlet before beginning maintenance work. Please read the separate "SAFETY INSTRUCTIONS" thoroughly to ensure that maintenance is performed correctly. · Replace the air filter if contamination cannot be removed, or if it is damaged. Contact your dealer in such case.(Option Air filter : MU01262) · Do not use the equipment with the air filter removed.

· When the air filter is clogged with dust etc. the CHECK AIR FLOW message appears on the screen and the power supply is switched OFF automatically to prevent the temperature rising inside the projector. Other Maintenance Maintenance Inside the Equipment For safety reasons, ensure that the equipment is cleaned and checked by the dealer once every two years. Maintaining the equipment by yourself is dangerous. Cleaning the Lens Gently wipe the lens with lens cleaning paper.

Do not touch the lens with your hands. Cleaning the Cabinet and Remote control transmitter Gently wipe with a soft cloth. If dirt and stains etc. are not easily removed, use a soft cloth dampened with water, or water and a neutral detergent, and wipe dry with a soft, dry cloth. CAUTION · Switch power OFF and remove the power cord from the power outlet before beginning maintenance work.

Please read the separate "SAFETY INSTRUCTIONS" thoroughly to ensure that maintenance is performed correctly. · Do not use detergents or chemicals other than those noted above (e.g. benzene or thinners). · Do not use cleaning sprays. · Do not rub with hard materials, or tap the equipment. ENGLISH-19 ENGLISH Air Filter Maintenance TROUBLESHOOTING OSD Message The messages as described below may appear on the screen at power ON. Take the appropriate measures when such a message appears. Table 8. OSD Messages Message Contents The message shown at left appears after the lamp has been used for more than 1700 hours.

CHANGE THE LAMP The lamp is approaching the end of its life. AFTER REPLACING LAMP, Power is switched OFF automatically when the lamp RESET THE LAMP TIME. *1) reaches the end of its life. Prepare a new lamp for installation. Always reset the lamp timer after replacing the lamp. CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER ** hr. The lamp will reach the end of its life in ** hours. Power will be switched OFF automatically in ** hours. Replace the lamp as shown in P.

17 "Lamp". Always reset the lamp timer after replacing the lamp. The lamp has reached the end of its life. Power will be switched OFF in a few minutes. Switch power OFF immediately and replace the lamp as shown in P.

17 "Lamp". Always reset the lamp timer after replacing the lamp. No input signal found. Check signal input connections and signal sources. The horizontal or vertical frequency of the input signal is not within the specified range.



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Check the specifications of the equipment and the signal source. The internal temperature has risen. Switch power OFF, and wait 20 minutes until the equipment cools. Check the following and Switch power ON again. · Are the ventilation openings blocked? · Is the air filter dirty? · Is the ambient temperature in excess of 35°C? *1) CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER 0 hr. NO INPUT IS DETECTED ON *** SYNC IS OUT OF RANGE ON *** CHECK THE AIR FLOW *1) This message is cleared automatically after approximately three minutes, and appears every time power is switched ON. ENGLISH-20 TROUBLESHOOTING (continued) The POWER indicator, LAMP indicator, and TEMP indicator are lit and blank as follows. Take the appropriate measures. Table 9.

@@Turns off Turns off Warming up. Please wait. Turns off Turns off ON. Normal operation possible. Turns off Turns off Cooling. Please wait. Lamp is not lit. The interior of the equipment may be too hot. @@Replace the lamp if the same problem occurs. @@@@Check fitting of the lamp and lamp cover, and switch power ON again.

Contact your dealer if the same problem occurs again. Blinks red The cooling fan is not operating. Switch power OFF, and wait for 20 minutes until the equipment cools. Check for foreign matters in the fan, and switch power ON again. Contact your dealer if the same problem occurs again. The interior of the equipment is too hot. *1) Switch power OFF, and wait for 20 minutes until the equipment cools. Check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. Then switch power ON again. Contact your dealer if the same problem occurs again.

Lights red Lights red Blinks red Lights red Turns off Lights red Turns off Lights red *1) When the internal temperature becomes excessive power is switched OFF automatically for safety reasons, and the indicator is extinguished. Set the power switch to [O] and wait for 20 minutes until the equipment has cooled sufficiently. ENGLISH-21 ENGLISH Indicators Message TROUBLESHOOTING (continued) Symptom Before requesting repair, check in accordance with the following chart. If the situation cannot be corrected, then contact your dealer. Table 10. Symptom Symptom The power is not turned on. Possible cause The main power switch is not turned on. The power cord is disconnected. The input is not correctly set. Remedy Turn on the main power switch.

Plug the power cord into an AC power outlet. Use the projector or remote control transmitter to set. Connect correctly. Connect correctly. Press VOLUME on the remote control or display the menu screen and adjust the volume. Press the MUTE Connect correctly. button. Page 8,9 10 7,8 7,8 11,15 11 7,8 12 9 12 12 17,9,12 No video or audio. No signal input. The projector is not correctly connected.

Video is present but The volume is set to minimum. no audio. Mute is turned on. The projector is not correctly connected. Audio is present but The brightness adjustment knob Select BRIGHT with the MENU button and the press the button. is rotated fully clockwise. no video. The slide lens door is still closed. Colors are pale and Color density and color color matching is matching are not correctly poor. adjusted.

Brightness and contrast are not correctly adjusted. The lamp is nearing the end of its service life. Focus or H PHASE is out of adjustment. Open the slide lens door. Adjust the video. Adjust the video. Replace with a new lamp. Adjust the focus or H PHASE. Images are dark. Video is blurred.

ENGLISH-22 SPECIFICATIONS NOTE : This specifications are subject to change without notice. Table 11. Specifications Item Product name Liquid crystal panel Lens Lamp Speaker Power supply Power consumption Temperature range Size Weight (mass) RGB IN 1/2 AUDIO IN 1/2 VIDEO IN Panel size Pixels Liquid crystal projector 2.3 cm (0.9 type) 786,432 pixels (1024 horizontal x 768 vertical) Zoom lens F=1.7 ~ 2.0 f=37.5 ~ 45.1 mm 160 W UHB 1.0 W + 1.0 W (Stereo) AC100 ~ 120V, 2.8A / AC220 ~ 240V, 1.2A 250W 0 ~ 35°C (Operating) 298 (W) x 94.6 (H) x 228 (D) mm 3.25 kg Video: Analog 0.7Vp-p, 75 terminator (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack 200mVrms, 50 k (max. 3.0Vp-p) Stereo mini jack 1.0Vp-p, 75 terminator RCA jack Specification Drive system TFT active matrix RGB signal input Brightness signal: 1.0Vp-p, 75 terminator Video S-VIDEO IN Color signal: 0.286Vp-p (burst signal), 75 terminator signal input Mini DIN 4-pin jack AUDIO IN R/L 200mVrms, 50 k (max. 3.0Vp-p) RCA jack Video: Analog 0.7Vp-p, 75 output impedance (positive) H/V. sync.: TTL level (positive/negative) RGB OUT Composite sync.: TTL level D-sub 15-pin shrink jack 200mVrms, output impedance 1 k (max.

3.0Vp-p) AUDIO OUT Stereo mini jack CONTROL USB D-sub 15-pin shrink plug USB jack (B type) Signal output Control functions ENGLISH-23 ENGLISH WARRANTY AND AFTER-SERVICE If a problem occurs with the equipment, first refer to the P.20 "TROUBLESHOOTING" section and run through the suggested checks. If this does not resolve the problem contact your dealer or service company. If repairs are possible, and desirable, they will be charged. ENGLISH-24 .



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