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You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI CP-S840. You'll find the answers to all your questions on the HITACHI CP-S840 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-S840**
- User guide HITACHI CP-S840**
- Operating instructions HITACHI CP-S840**
- Instructions for use HITACHI CP-S840**
- Instruction manual HITACHI CP-S840**

HITACHI

Liquid Crystal Projector

Model name

CP-S840W/E

OPERATING GUIDE

ENGLISH

Thank you very much for purchasing this hitachi Liquid Crystal Projector.
Please read this operating guide to use correctly. After reading this manual, keep it carefully for future reference.



Outline

This Liquid Crystal Projector can display various computer signals and NTSC/PAL/SECAM video signals.

Features

- (1) **High brightness**
A highly efficient optical system with a UHP lamp ensures high brightness.
- (2) **High resolution**
Three separate high-definition liquid crystal panels are used for the R, G and B signals.
- (3) **Compact size, light weight for portability**
- (4) **RGB output terminal**
- (5) **RS232C Communication**
- (6) **Mouse emulation**
- (7) **Power zoom and power focus functions**
- (8) **Complies with VESA DDC1/2B specifications**
- (9) **Auto-adjustment function**

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Manual abstract:

@@@If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer. DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer. Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferable a qualified electrician. If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply. **WARNING: THIS EQUIPMENT MUST BE EARTHED IMPORTANT:** The wires in the mains lead are coloured in accordance with the following code: Green and Yellow=Earth, Blue=Neutral, Brown=Live. Green & Yellow to Earth Brown to Live Fuse Blue to Neutral Cord Clamp As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or coloured Green or Green and Yellow. The wire coloured Blue must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED. 2 **WARNING:** This equipment has been tested and found to comply with the limits for a Class 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 radiate 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. Instructions to Users: This equipment complies with the requirements of FCC (Federal Communication Commission) Class A equipments provided that following conditions are met.

(1) Video signal cables: Double shielded coaxial cables (so called FCC shield cable) must be used and the outer shield must be connected to the ground. Or, if normal coaxial cables are used, the cables must be enclosed in metal pipes or similar way to reduce the interference noise radiation. (2) Power cord: Shielded power cord must be used. The outer shield must be connected to the ground. (3) Video inputs: The input signal amplitude must not exceed the specified level.

Before use (Before Use) Illustrated marks Various illustrated marks are used in this product and instruction manual so the product is used correctly and safely, and also to protect you and others from danger and your property from being damaged. This shows that a person could be killed or injured if the wrong operation is done by ignoring this indication. This shows that a person could be injured or material may be damaged if the wrong operation is done by ignoring this indication. Warning Caution Examples of illustrated marks The mark informs you that there is a warning (including caution). The concrete details of the warning (the left diagram shows the caution for an electric shock hazard) is shown in the diagram. The mark informs you of a prohibited action. The concrete prohibited action (the left diagram shows the prohibition of disassembly) is drawn in the diagram or near it. The mark informs you of actions you must do. The concrete instruction details (the left diagram shows "Disconnect the power plug from the power outlet") is drawn in the diagram. 3 ENGLISH [Safety precaution] Warning If any abnormality occurs.

· When there is an abnormal smell or smoke, if you use this unit as it is, this could cause a fire or electric shock, etc. When an abnormality is found, immediately turn off the power switch and pull out the power plug from the power outlet. Check that there is no smoke, etc., then contact your dealer to repair the unit. Do not repair it yourself as it is very dangerous. · Do not use this unit as it is after trouble has occurred, such as "No picture", "No sound", "Abnormal sound", etc. This may cause a fire, electric shock, etc. In this case Do not look directly at the lens when the lamp is lit. Do not look directly at the lens when the lamp is lit. Since a strong light is used, it could damage your vision, etc.

Especially pay attention if children are present. Do not insert any foreign object. · Do not insert a metal or flammable object inside through the ventilation holes, etc. This may cause a fire, electric shock, etc. · If foreign matter enters inside, turn the power switch off and disconnect Pull out the the power plug from the power power plug outlet and contact your dealer.

If from the power you use as it is, it may cause a fire, outlet. electric shock, etc. Be careful especially if children could touch the unit. immediately turn off the power switch and disconnect the power plug, then contact your dealer to repair the unit. · If water, etc. enters inside the unit, turn off the power switch of the unit first and disconnect the power plug and then contact your dealer. If you use it as it is, it may cause a fire, electric shock, etc. Pull out the power plug from the power outlet. Do not apply any shock. If you drop this unit or if the cabinet is broken, turn off the power switch, disconnect the power plug and contact your dealer. If you use it as it is, it may cause a fire, electric shock, etc. Do not install this unit in an unstable place. Avoid placing it in an unstable place such as weak base, inclined floor, etc. This may cause it to drop or fall over, resulting in injury. Pull out the power plug from the power outlet.

Do not remodel this unit. Do not remodel this unit. It may cause a fire, electric shock, etc. Prohibition of disassembly Do not open the cabinet. Do not open the cabinet. There are high voltage parts inside the cabinet and this may cause an Electric shock Prohibition of electric shock. Ask your hazard disassembly dealer to check inside and adjust and repair the unit. Do not put a container, etc. with liquid on this unit. Do not put a vase, flowerpot, cosmetic container, medicine or water and small metal objects on this unit.

If liquid spills and enter inside the unit, it may cause a fire, electric shock, etc. Do not use this in a bathroom, etc. Do not use this unit in a bathroom, etc. This may cause a fire, electric shock, etc. Do not use power supplies other than that specified.



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Do not use this unit with a power voltage other than specified power supply voltage. It may cause a fire, electric shock, etc. Do not use near water 4 Warning
Be careful in handling the power cord. · Do not scratch, damage or process the power cord. Do not bend it forcibly.

Also do not put a heavy object on it, do not heat it and do not pull it. If you do, the power cord may be damaged and it may cause a fire, electric shock, etc. ×
Do not pull the cord. × Do not put a heavy object on it. × Do not damage the cord. × Do not put it near a heating device. · Be careful that this unit is not
placed on the power cord. The power cord may be damaged and it may cause a fire, electric shock, etc. If the cord is covered with a carpet, etc. a heavy
object may be put on it without your realizing it.

· If the cord is damaged (core wire is exposed, disconnected, etc.), ask your dealer to replace it. It may cause a fire, electric shock, etc. · Check that no dirt
adheres to the power plug and fully insert without any play. If dirt adheres or the connection is incomplete, it may cause a fire, electric shock, etc. · The outer
shield of power cord must be connected to ground. If you do not, it may cause a electric shock. Do not stare directly into the laser aperture. · The laser pointer
on the remote control unit radiates the laser beam from the laser aperture. · Do not stare into the laser aperture or radiate the laser beam to other persons as
the laser emitted is a class 2 laser and it could damage you vision , etc.

Especially pay attention if children are present. · The three labels below are caution labels for the laser beam. CAUTION LASER RADIATION DO NOT
STARE INTO BEAM WAVE LEGTH : 670nm MAX. OUTPUT : 1mW CLASS 2 LASER PRODUCT RADIAZIONI LASER NON GUARDARE NEL RAGGIO
LUCE APPARECCHIO LASER DI CLASS 2 RAYONNEMENT LASER MANUFACTURED NE PAS REGARDER DANS LE FAISCEAU APPAREIL August-97
A LASER DE CLASSE 2 LASER-STRAHLUNG NICHT IN DEN STRAHL BLICKEN LASAER KLASSE 2 MANUFACTURER:A AVOIDE EXPOSURE-LASER
RADIATION IS EMITTED FROM THIS APERTURE CAUTION LASER RADIATION DO NOT STARE INTO BEAM WAVE LEGTH : 670nm MAX. OUTPUT
: 1mW CLASS 2 LASER PRODUCT LASER APERTURE 5 ENGLISH Caution Do not step on this unit or do not put a heavy object on it.

· Do not step on this unit. Especially pay attention if children are present. If you do, the unit may fall over or may be broken causing an injury. · Do not put a
heavy object on this unit. If you do, the unit may fall due to its imbalance or it may drop, causing an injury.

Do not place this unit in a moist or dusty place. · Do not place this unit in a moist or dusty place. It may cause a fire, electric shock, etc. · Do not place this
unit where it would be exposed to soot or steam, near a cooking stove or humidifier, etc. It may cause a fire, electric shock, etc. Handle the power cord
carefully. · Do not bring the power cord near a heating device. The shield of the cord may melt and it may cause a fire, electric shock, etc. · Do not insert /
disconnect the power plug with wet hands. It may cause an electric shock.

· When the power plug is to be disconnected, do not pull the power cord. The power cord may be damaged and it may cause a fire, electric shock, etc. Be sure
to hold the power plug. Do not block the ventilation holes. Do not block the ventilation holes. If the ventilation holes are blocked, the heat inside may build up
and it may cause a fire. Do not use this unit in the following ways: On its side. In a poorly ventilated, narrow place. On a carpet or bed dust inside as it is for
a long this without cleaning, it may cause a fire. Especially it is effective to clean before the rainy season starts.

Consult your dealer for the cost of the cleaning the inside the unit. Lamp [General cautions] Do not place this unit where it gets hot. Be careful since if you
place the unit outdoors, in a place exposed to direct sunlight or near a heating device, the cabinet and parts could be affected. Cleaning the cabinet. · Since
many plastic materials are used on the surface of the cabinet, if the surface is cleaned using benzene, thinner, etc.

, it may change in quality or the coating may be peeled off. Avoid using chemicals. · When a chemically-teated cloth is used, follow the cautions that come
with the cloth. · Do not spray a volatile agent such as insecticide on the unit. Do not leave a rubber or vinyl object touching the cabinet for a long time.
It may cause the cabinet to change in quality or the coating to peel off. · Clean the dirt from the cabinet and operation panel by dusting lightly with a soft
cloth. If the dirt is conspicuous, wipe off with a cloth moistened with detergent diluted with water, then wipe off with a dry soft cloth. Volume. Use at the
proper volume level so that it does not bother persons in the neighborhood. Especially, since the sound is likely to carry well at the night even at a low
volume, consider the neighborhood to a good living environment. Cleaning the lens. To clean the lens, use a generally-available lens cleaning tissue (used for
cleaning lens of camera, glasses, etc.). Be careful not to scratch the lens with a hard object.

Rest your eyes occasionally when viewing for a long time. 7 ENGLISH Use of batteries. Caution when replacing the lamp. Contents of shipping box Check
that the carton contains the following items. STANDBY/ON MUTE FREEZE MAGNIFY VOLUME OFF POSITION ON LASER CP-S840W/E Liquid Crystal
Projector OPERATING GUIDE Flüssigkristall-Projektor BEDIENUNGSANLEITUNG Vidéoprojecteur à cristaux liquidis NOTICE D'UTILISATION RESET
MENU ON BLANK RGB INPUT RIGHT MOUSE ON TIMER VIDEO Proiettore A Cristalli Liquidi LIBRETTO D'ISTRUZIONI Projector con paneles de
cristal líquido MANUAL DE INSTRUCCIONES Vloeibare-kristallen Projektor GEBRUIKSAANWIJZING Flytende krystall prosjektør BRUKERHÅNDBOK
Liquid Crystal Projector Remote Control Transmitter (batteries included) Operating Guide ON OFF 123456 Power Cord 110V - US 220 - UK, Europe
3-Conductor Video/Audio Cable RGB Cable (15-15 pin M/M) Mac adapter with dip switch Mouse cable 3 Names and functions of each part Main unit
STANDBY / ON button Power ON/OFF button. OFF sets the unit in standby mode. (see page 13~14) STANDBY/ON INPUT MUTE ON indicator This blinks
in the standby mode and lights in the operation mode.(See page 32) INPUT button To select the input source. Each time this button is pressed, the input
source is changed in sequence as shown below.(See page 13) RGB1 RESET MUTE button Silences the sound.
(Cancels the mute when the unit is set in mute mode.) MENU RGB2 VIDEO RESET button Resets unit to factory settings. (See page 16) MENU button Picture
adjustments.



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Refer to page 16~19 for details. LAMP TEMP LAMP indicator This lights or blinks when the lamp does not light.

(See page 32) TEMP indicator This lights or blinks when temperature inside the projector is too high or when fan is abnormal. (See page 32) Speaker ZOOM knob Adjusts picture size. (See page 13) Speaker Remote control sensor Lens Lens cap · Use the remote control transmitter within the range of about 16 feet from the remote control sensor and within 30° to both the left and right. Cooling fan (exhaust) Cooling fan (in take) Handle FOCUS ring Adjusts focus. (See page 13) 8 NORSE NEDERLANDS ESPAÑOL ITALIANO FRANÇAIS DEUTSCH ENGLISH Names and functions of each part (continued) Remote control sensor MAIN POWER switch Main power ON/OFF switch.

: OFF : ON VIDEO input terminal (on video-equipped models only) AC IN socket Connect the provided power cord. S-VIDEO input terminal Mini DIN 4pin connector VIDEO input terminal RCA Jack AUDIO L/R input terminal RCA Jack S-VIDEO IN 1 RGB IN 2 VIDEO IN RGB input terminal D-sub 15pin shrink terminal (1/2) CONTROL RGB OUT AUDIO IN L MONO AUDIO IN 1 2 AUDIO OUT R CONTROL terminal D-sub 15pin shrink terminal AUDIO output terminal (RGB/VIDEO) Stereo mini jack AUDIO input terminal Stereo mini jack (1/2) RGB output terminal D-sub 15pin shrink terminal RGB output can be displayed even in the standby mode. 9 ENGLISH Names and functions of each part (continued) Remote control transmitter STANDBY / ON button Power ON/OFF button. OFF sets the unit in standby mode. (See page 13, 14) STANDBY/ON MUTE MUTE button Silences the sound. (Cancels the mute when the unit is set in mute mode.) VOLUME button Adjusts volume. The sound is loud or low while pressing the "+" or "-" button. FREEZE Button Pressing this button displays a still picture (by freezing). (See page 15) FREEZE MAGNIFY VOLUME OFF POSITION ON LASER LASER button Laser pointer ON button.

Use as a stick (for indication). (See page 11) MAGNIFY button Pressing this button partially magnifies a displayed picture. (See page 15) MOUSE LEFT button Mouse left button is the left click of the mouse. (bottom button) (See page 23) POSITION button Moves the picture by DISK PAD after pressed the POSITION ON button. (Only RGB signal input) While the back light on, you can operate POSITION. *1 RESET MENU ON BLANK RGB INPUT RIGHT MOUSE ON TIMER VIDEO RESET / RIGHT button When displays the on-screen menus, resets the menu item to factory settings. When operates the mouse emulation, works as right click of mouse in computer mode. (See page 23) After moving the picture (POSITION ON), resets the position to factory settings. DISK PAD 1 When the back light of MENU ON button on, selects or adjusts the menu item. (See page 16) 2 When removes the on-screen menus, works as mouse.

3 When the back light of the POSITION ON button on, moves picture. *2 MOUSE ON button Mouse emulation mode starts. (See page 23) When menu are open or blank screen is displayed or icon of position is displayed, there are stopped and back light off. MENU ON button Displays the on-screen menus. And back light on.

(See page 16 ~ 19) While the back light on, you can operate MENU. TIMER ON / OFF button Displays the setting time by count down. See page 19 "TIMER" of menu when you set the minutes of timer. BLANK ON button 1 The blank screen which is displayed by pressing BLANK. 2 And the blank screen will be revealed down by pressing BLANK again.

(See page 19) INPUT SELECT button Selects the input source. (See page 13) *1 POSITION ON icon When presses POSITION ON button, back light on and icon is displayed. While displaying the icon, you can operate POSITION. Icon is displaying in video mode, but can not operate POSITION. *2 When the back light of MENU ON or POSITION ON button on without displaying the icon of POSITION ON or MENU, can operate DISK PAD too. Displays the icon or MENU at the same time as starting the operation. When presses the MOUSE ON button, MENU mode or POSITION ON mode is stopped. 10 Names and functions of each part (continued) How to insert batteries Insert the provided batteries (LR6 (alkal)) into the remote control transmitter. 1 Remove the battery 2 Insert the batteries compartment cover. as illustrated inside the battery compartment.

Slide the battery compartment cover in the direction of the arrow while pressing slightly down on it. Caution 3 Replace the cover. Cautions on use of batteries Caution Cautions on use · Do not use batteries not specified for this unit. Also do not use old and new batteries together. It may cause a fire, injury due to burst of battery or liquid leakage. · When inserting batteries, pay attention to the direction of the and polarity indications and insert the batteries correctly. If the polarities are confused, it may cause injury or damage near the unit due to a burst of battery or liquid leakage. · Do not drop the remote control transmitter or apply any shock to it. · Do not let the remote control transmitter get wet and do not put it on a wet object. It may cause a malfunction. · If you are not going to use it for a long time, remove the batteries from the remote control transmitter. · If operation of the remote control becomes difficult, replace the batteries. Caution Cautions on use of the laser pointer. · The laser pointer on the remote control unit radiates the laser beam from the laser aperture. · This laser pointer used as a stick (for indication).

· Do not stare directly into the laser aperture or radiate the laser beam to other persons as the laser emitted is a class 2 laser and it could damage you vision, etc. Especially pay attention if children are present. RADIAZIONI LASER · The three labels below are caution labels for the laser beam. CAUTION WAVE LEGTH : 670nm MAX. OUTPUT : 1mW LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT NON GUARDARE NEL RAGGIO LUCE APPARECCHIO LASER DI CLASS 2 RAYONNEMENT LASER MANUFACTURED NE PAS REGARDER DANS LE FAISCEAU APPAREIL August-97 A LASER DE CLASSE 2 LASER-STRAHLUNG NICHT IN DEN STRAHL BLICKEN LASER KLASSE 2 MANUFACTURER:A AVOIDE EXPOSURE-LASER RADIATION IS EMITTED FROM THIS APERTURE CAUTION LASER RADIATION DO NOT STARE INTO BEAM WAVE LEGTH : 670nm MAX.

OUTPUT : 1mW CLASS 2 LASER PRODUCT LASER APERTURE 11 ENGLISH Installation Example of the projector and screen installation Determine picture size and projection distance as illustrated below. View from the top Screen View from the side Lens center a Screen (inch) 40 60 80 100 120 150 200 a (inch) Minimum 64 97 130 163 196 244 326 Maximum 84 127 169 213 256 319 a: Distance from the projector to the screen. (tolerance : ±10%) This screen size is full-screen size.



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(800 dots X 600 dots) Installation of liquid crystal projector 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. How to use foot adjusters Adjust the projection position using the foot adjusters at the bottom of the projector. View from the front View from the side Foot adjuster Vertical adjustments can be made in the range of 0 to 9°. Horizontal inclination may be adjusted using the adjuster at the rear. 1.

Lift up the projector and press the button of the adjuster to release the lock. 2. Adjust the projection angle, release the button of the adjuster and securely lock it. 3. To adjust the angle slightly, revolve the foot adjusters. Caution · Do not unlock the foot adjusters while you do not support the projector, to avoid falling of the projector and causing an injury. · Do not revolve the foot adjusters by force, the foot adjusters is damaged. · Securely lock the adjuster. · Do not apply unnecessary force from the upper side when lifting the projector. Otherwise, projector may be damaged or a finger could be caught and cause injury.

12 Basic operations To project the picture 2 STANDBY/ON MAGNIFY VOLUME INPUT 3 OFF POSITION ON LASER MUTE MENU 7 RESET MENU ON RIGHT MOUSE ON TIMER VIDEO INPUT RESET 5 7 1 BLANK RGB 1 2 3 4 5 6 7 Turn the MAIN POWER switch of the projector on.[I : ON] · The ON indicator will light up orange. Press the STANDBY/ON button. · The ON indicator blinks (green) during warm-up and then lights (green). · Power cannot be turned on even if the STANDBY/ON button is pressed within 60 seconds after power is turned off, since the lamp has cooled preparing for next lighting. Remove the lens cap. Adjust picture size using the projection lens ZOOM knob. Adjust focus using the projection lens FOCUS ring. Power on all connected equipment. The method of connecting various equipment, see on the page 20-28.

Press the INPUT button or the INPUT SELECT (VIDEO or RGB) button to select the source of the signal to be projected on the screen. Example on-screen display · The selected signal input is displayed at the bottom right of the screen for 3 seconds. RGB1 13 ENGLISH 4 2 STANDBY/ON MUTE FREEZE Basic operations (continued) To turn off the power 1 STANDBY/ON 1 INPUT STANDBY/ON MUTE FREEZE MAGNIFY VOLUME OFF 3 MUTE POSITION ON LASER MENU RESET RESET MENU ON BLANK RGB INPUT RIGHT MOUSE ON TIMER VIDEO 2 1 2 3 Press the STANDBY/ON button, for 1 second. · The ON indicator blinks orange and the lamp turns off. (About 1 minute later), the fan stops and the indicator lights up orange. · Press the STANDBY/ON button for short time (less than 1 second), the projector do not set in standby mode. Turn the MAIN POWER switch of the projector off.[Install the lens cap. : OFF] Caution · To reduce temperature inside the projector, fan will rotate for about 1 minute after the lamp is turned off. · Do not turn off the MAIN POWER switch during the lamp on because the lamp is damaged.

PLUG&PLAY This projector complies with VESA DDC1/2B specifications. PLUG&PLAY is a system with computer, peripherals (including projectors), and operating system. It works when the projector is connected to DDC (Display Data Channel) ready computer that is running an operating system software that incorporates plug & play functionality. (Only RGB 1) 14 Basic operations (continued) FREEZE FUNCTION 1 2 Press the FREEZE button. The display image stops. A mark appears at the lower right of the screen for about 3 seconds during the FREEZE function. 1, 2 MAGNIFY VOLUME OFF POSITION ON LASER [TO RELEASE FREEZE] Press the FREEZE button. The freeze function is cancelled. Furthermore, a seconds or so when FREEZE is released, mark appears at the bottom of the screen for 3 Caution · When the FREEZE Button is pressed, FREEZE and RELEASE can function alternately.

· What is more, FREEZE is released when an input selector button is pressed or when the display mode of a personal computer is switched over during display. · The POSITION ON icon is not displayed during freeze. Also, scrolling using DISK PAD operation is not possible. · When a still picture signal is given as input and the freeze function is ON, do not forget to cancel the freeze function. · Some set up items can not be adjusted during freeze. @@@@Some set up items can not be adjusted during magnify. @@@@ (2) Press the RESET button. (3) Select the DEFAULT (To select the CANCEL is not changed). @@@ (2) Press the RESET button. SETU P IN PU T IMAG E OPT.

@@RGB signal input SETUP INPUT IMAGE OPT. @@@@Or automatic control. Moves the picture left or right. Or automatic control. Decreases the picture flicker. @@@@Some items can not be adjusted during freeze or during magnify. (Please refer to the above table.) 2. @@@Some items can not be adjusted during freeze or during magnify. @@@@It will become as illustrated on the lower right.

@@When the auto-adjustment is completed the word <AUTO> will disappear. The auto-adjustment of the white level is cancelled by input switching and signal mode change. Caution AUTO · When start up screen is displayed ("NO INPUT IS DETECTED" or "SYNC IS OUT OF RANGE" is displayed), SETUP menu items other than VOLUME cannot be set. · TINT cannot be adjusted with PAL/SECAM video signal input. · TINT, COLOR and SHARPNESS cannot be adjusted with an RGB signal input. · V.POSIT, H.POSIT, H.PHASE and H.SIZE cannot be adjusted with a VIDEO signal input.

· Auto-adjustment will take about 10 to 15 seconds to complete. · In some cases auto-adjustment may not function normally, depending on the type of computer to which the unit is connected, and the signal sent. · Auto-adjustment may not perform normally with some images. Do not use with animated or dark images. · Carry out the auto-adjustment when the application, which is activated on the computer, is set to the maximum display. · After auto-adjustment the screen may become slightly dark due to the auto-adjustment of the signal level. · Auto-adjust can not be performed during freeze, during magnify, or during the initial screen display ("NO INPUT IS DETECTED" or "SYNC IS OUT OF RANGE"). INPUT The menu INPUT serves for the selection of input source. SETUP INPUT IMAGE OPT. SETUP INPUT IMAGE OPT.

SYSTEM AUTO NTSC PAL SECAM NTSC4.43 M-PAL N-PAL RGB1 RGB2 VIDEO RGB1 RGB2 V I DEO Adjustment Item RGB 1 RGB 2 VIDEO Selects the RGB 1 terminal.



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5 15.8 0.4 1.8 1.9 13.7 0.3 1.2 2.2 13.0 0.

2 1.0 2.2 10.8 0.5 Back porch(b) Active(c) Front porch(d) DATA VSYNC Sync.

(a) Computer/signal VGA-1 VGA-2 PC-9800 TEXT VGA-3 Mac 13" mode VGA-3 (72Hz) VGA-3 (75Hz) VGA-3 (85Hz) SVGA (56Hz) SVGA (60Hz) a 2 2 8 2
2 3 3 3 3 2 4 Vertical Timing (lines) b c d 59 350 38 34 400 13 25 400 7 34 400 13 33 480 10 39 480 3 28 480 9 16 480 1 25 480 1 22 600 1 23 600 1
Computer/signal SVGA (72Hz) SVGA (75Hz) SVGA (85Hz) Mac 16" mode XGA (60Hz) XGA (70Hz) XGA (75Hz) XGA (85Hz) a 6 3 3 3 6 6 3 3 Vertical
Timing (lines) b c d 23 600 37 21 600 1 27 600 1 39 624 1 29 768 3 29 768 3 28 768 1 36 768 1 22 Connection to the control signal terminal 1.



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(2)Projector reply the command '1xH'+ 'yyH'+data bytes.

The procedure of setting the Projector status (1)Computer sends the command '3xH'+ 'yyH'+data bytes. (2)Projector changes it's status. (3)Projector reply the command '1xH'+ 'yyH'+data bytes which indicate status. Caution · (3) data bytes is not always same as (1) data bytes. If projector cannot realize the status of

(1) data bytes, projector set the proper status and reply this new setting data bytes or projector reply the error reply '0xH'+ 'yyH'+data bytes same as (1). · When only power control (POWER COMMAND) is performed, it takes about 2~140 seconds between sending set code and receiving answering code. The procedure of default setting the Projector status (1)Computer sends the command '40H'+ 'yyH' (2)Projector changes it's status to default setting. (3)Projector reply the command '1xH'+ 'yyH'+data bytes which indicate default. The example of command error When projector cannot accept command from PC, error code '00H'+ 'yyH' is sent back. (in a case when command code '2xH', '3xH' or '4xH'+ 'yyH'+data is sent from PC to projector) The example of data error When projector cannot accept command from PC, error code with data '00H'+ 'yyH'+data is sent back as it is.

(in a case when command code '2xH', '3xH' or '4xH'+ 'yyH'+data is sent from PC to projector) When data is longer than required data code length, projector ignores excess data code. When data is shorter than required data code length, projector sends back error code shown above. The example of framing error Projector sends error code '70H'+ '70H' up to 10 times at intervals of 1 second until any answer is received. The interval of command bytes and data bytes After command code '2xH', '3xH' or '4xH' is sent from PC, if command or data is not sent within 500ms, projector sends back error command '70H'+ '70H'. If no answer is sent within 1 second from that time, framing error is assumed. Caution · The interval of command bytes and data bytes must be over 1mS and under 500mS. If it is under 1mS, it may be treat as framing error. · After projector has sent back answer code, when next command is to be sent from PC, allow for an interval of 40ms or more between answer code and other code. 27 ENGLISH Example of system setup Connecting various equipment. AC Inlet Computer (Note type) 1 RGB IN 2 S-VIDEO IN VIDEO IN CONTROL RGB OUT AUDIO IN L MONO AUDIO IN 1 2 AUDIO OUT R Computer(Desk type) VTR with S-VHS out (video model only) VTR, etc.

(video model only) Audio amplifying equipment CRT Display 28 Cleaning the air filter Clean the air filter about every 100 hours. 2 Remove the front filter cover. 3 4 Clean the air filter using a vacuum cleaner. · When air filter is very dirty, wash it using neutral detergent diluted with water, and dry well. Attach the air filter on the cover. Air filter Filter cover Caution · If air filter is strutted with dust, etc., protection circuit will turn the power off. · Do not use with removed air filter. 29 ENGLISH 1 Turn the main power switch off and disconnect the power plug from the power outlet. Lamp Light source lamp has a service life.

The picture will become dark or color will be poor when the lamp is used for a long time. If usage of lamp is continued in such cases, it could cause a malfunction. Replace lamp with new one. As reference for replacement time, indicator will operate or message will be displayed when the power is turned on, as shown on page 30~31. In these cases the lamp should be replaced.

Consult your dealer. Caution Also LAMP indicator will light when the lamp becomes too hot. Turn off the power and let the projector cool for 45 minutes. Turn on. If LAMP indicator still lights up red, contact your dealer.

1. How to replace lamp (Option lamp : Lamp unit DT00201) HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE When replacing lamp, turn off and remove AC cord, wait 45 minutes to let lamp cool. High-pressure lamp when hot, may explode if improperly handled. Caution · For disposal of used lamp, treat according to the instruction of 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 Reflector Front glass (explosive sound is heard), disconnect the power plug from the power outlet and ask your dealer to replace lamp. The lamp is covered by front glass Lamp and air-tight structure, 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. 1 2 3 Turn the main power switch off and disconnect the power plug from the power outlet.

Remove the lamp cover. · If lamp is hot at this time, this could cause burn. Wait for minimum 45 minutes until lamp is cooled down. · Loosen a screw and remove the cover. Lamp cover Screw Loosen two screws and pull the handle to remove the lamp. Screw · If the screws are not loosened completely, your fingers Lamp may be damaged. · Do not insert your hand into the box after the lamp is removed. (There are optical parts inside. If touched by hand, it may result in color unevenness, etc.) 30 Lamp (continued) 4 Replace the lamp with new one and fix it using the same two screws.

· Firmly tighten the lamp screws. Loose screws may cause bad connection of the connector which in turn may result in malfunctioning. Screw Lamp 5 Install the lamp cover and fix it using screws. · To prevent burn, install the lamp cover and secure it using the screws. · Do not turn on the power with lamp cover removed.

Lamp cover Screw · Whenever the lamp is replaced, reset the total operation time of the lamp. Do not reset if the lamp has not been replaced. · Do not perform resetting without changing the lamp, as this can cause lamp breakage. 2. Reset the lamp time Please carry out the following operation within 10 minutes from power on, if you replaced the lamp after 2,000 hours.

MAGNIFY VOLUME OFF POSITION ON LASER STANDBY/ON INPUT 3 RESET RIGHT MOUSE ON TIMER VIDEO INPUT MUTE MENU 2 MENU ON BLANK RGB 1 1, 2 RESET 3 LAMP 1500 → 1) Press the RESET button on projector for 3 seconds or remote control TIMER button for 3 seconds and display the total lamp used time. · When accumulated operation time of the lamp reaches 1500 hours, the following display will appear at the bottom of the screen.



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2) Press the RESET button on projector or remote control MENU ON button during displaying the lamp used time. 3) Select the "0" on the screen using the MENU () button or DISK PAD. LAMP 1500 h 0 CANCEL 31 ENGLISH Message table On-screen display The following messages are displayed on the screen. MESSAGE CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER 20 Hr. Blinking of CHANGE THE LAMP NO INPUT IS DETECTED SYNC IS OUT OF RANGE Action Accumulated operation of lamp has exceeded 1,500 hours. It is recommended to replace lamp.

Replace with new lamp. If accumulated operation reaches 2,000 hours, lamp will automatically turn off. *1 Lamp has 1,979 hours on it. Call a maintenance person. *1 Time is 20 ~ 0. (count down.) When the lamp has 2,000 hours or more on it, the message will blink, and the power will turn off after 10 minutes.*2 Signal is hot input. (See page 20, 21) The horizontal frequency of the input signal exceeds the range of the projector, it cannot be displayed. (See page 21, 22)

*1 This message are not displayed after 3 minutes.

But this message are displayed when you turn on the power again. *2 It is possible to again turn on the power, however the power will go off after about 10 minutes. Indicator display The ON indicator, LAMP indicator and TEMP indicator will light or blink in the following cases. ON indicator Lights orange Blinks green Lights green Blinks orange Lights red LAMP indicator TEMP indicator Goes off Goes off Goes off Goes off Lights red Goes off Goes off Goes off Goes off Goes off Meaning Standby mode During warming up During operation *1 During cooling down Lamp cannot light *2 Cool projector by power off for 45 minutes. If the indicator is still lit, lamp may be defective.

Replace. Remedy Lights red Lights red Blinks red Blinks red Goes off Blinks red Goes off Blinks red Goes off Lamp is not inserted or the Securely insert the lamp or close the lamp door open lamp door. Cooling fan accidented Accumulated lamp operation time has exceeded 2,000 hours Call a maintenance person.

@@ If the problem cannot be recovered, contact your dealer. @@@@ The lamp will light.

@@*2 If temperature inside the unit increases because of blocked vents, the lamp may go off for protection, and the LAMP indicator will turn red. Should this happen, turn off the main switch, wait until the set cools down (about 45 minutes), then again turn on the main switch. 32 When you think something wrong Check the following again before asking for service. If the trouble cannot be recovered, consult your dealer. Phenomena Cause Check point Page Power cannot be turned on. Inside the projector too hot. The setting of the input source is not Wiring to the projector is not correct. Wiring to the projector is not correct. The volume is set to minimum. The unit enters the mute mode.

Wiring the projector is not correct. The brightness is set fully to the dark Lens cap is attached. side. correct. power was turned off. No picture and sound Only picture is displayed with no sound Only sound is heard without a picture Color is weak and tint is incorrect Picture is dark Picture is not clear LAMP indicator lights red. Remote control mouse cannot be operated. P.6 Do not block the ventilation holes. P.

29 Clean the air filter. Use the projector under 35°C temperature. Set the correct input using the input select button P.8, 10, P.9, 28 Connect the cable correctly.

P.9, 28 Connect the cable correctly. Press the VOL button or press the MENU button P.10, 17 P.8, 10 Press the MUTE button.

P.9, 28 Connect the cable correctly. Press the MENU button and select BRIGHT and P.17 and adjust the volume. of the projector or the remote control. 13, 18 switch on after waiting at least 60 seconds. Remove the lens cap. press the button. P.13 P.

17 P.17 P.29 P.13, 17 P.32 The color and tint have been adjusted Adjust the color and tint correctly. incorrectly. The brightness and contrast has been adjusted incorrectly. The lamp has not been adjusted. Focus or H.PHASE is not matched.

Trouble with the lamp. Adjust the brightness and contrast correctly. Replace the lamp with a new one. Adjust the focus or H.PHASE Turn off the power and leave for 45 minutes ; then turn the power on again.

Be sure to perform procedure in the following order: (1)Connect cable. (2)Turn on projector. (3)Turn PC on. Input RGB signal and select and display input source. Cable was connected after the power RGB signal not selected.

was turned on. P.23 A bright dot may be seen in the picture. This is a phenomenon peculiar to the liquid crystal and is not a problem. 33 ENGLISH Turn the MAIN POWER switch on. The Main power is not turned on. Insert the power cord into an AC socket. The power cord is disconnected. 60 seconds have not elapsed since the When the power is turned off turn the power P.13 P.

9 P.13 Specifications Product name Model name Display system CP-S840W/E All specifications are subject to change without notice. Liquid crystal projector 3 sheets of liquid crystal panels, 3 primary color lights shutter system 2.3cm (0.9 inches) Panel size Liquid crystal TFT active matrix Drive system panel Number of pixels 480,000 pixels (V600 X H800) Lens Lamp Speaker Power supply Power consumption Usable temperature range Dimensions (W X H X D) Weight Video signal input terminal Input/Output terminal RGB input/output signal terminal Zoom lens F=1.7 ~ 2.0 UHP lamp 150W 1W+1W (stereo) AC100 ~ 120V, 2.9A/AC220 ~ 240V, 1.3A 260W 32 ~ 95°F Storage Temperature range -4 ~ 140°F 9.8" X 3.

9" (including foot adjuster) X 13.0" (including lens). 9.8" X 4.2" (excluding foot adjuster) X 13.

2" (excluding lens). 9.9 lbs. S VIDEO : Mini DIN4-pin terminal VIDEO : RCA Jack terminal AUDIO : RCA Jack terminal RGB signal : D-sub 15pin shrink terminal (Female) AUDIO : Stereo mini jack Remote control POWER code Accessories BATTERIES LR6 RGB cable 1 3(CP-S840W) 2(CP-S840E) 2 1 MAC adaptor Video/Audio cable Mouse cable Operating guide 1 1 3 1 f=38 ~ 49 Control terminal D-sub 15pin shrink terminal (Male) Dimension diagram All dimensions shown in inches. 13.

2 13.0 9.8 10.1 3.9 1.1 0.5 34 2.2 4.2 .



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