Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI CP-X250. You'll find the answers to all your questions on the HITACHI CP-X250 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-X250
User guide HITACHI CP-X250
Operating instructions HITACHI CP-X250
Instructions for use HITACHI CP-X250
Instruction manual HITACHI CP-X250

Projector
CP-S240/CP-X250
User's Manual – Operating Guide

Thank you for purchasing this projector.

⚠ **WARNING** ► Before using this product, please read the "User's Manual - Safety Guide" and related manuals to ensure the proper use of this product. After reading them, store them in a safe place for future reference.

About this manual

Various symbols are used in this manual. The meanings of these symbols are described below.

⚠ **WARNING** This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.

⚠ **CAUTION** This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

📖 Please refer to the pages written following this symbol.

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Manual abstract:

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2 Projector features / Preparations

Projector features

This projector is used to project various computer signals as well as NTSC/PAL/ SECAM, Component (SD, HD) video signals onto a screen. It requires just a little space for installation and gets a large image from short distance.

High Brightness Newly developed 180W UHB (Ultra High Brightness) lamp gives you a higher brightness image on a screen. The image can be still kept as bright and clean enough for use in bright rooms.

Low Noise WHISPER mode is available for reducing acoustic noise to realize quieter operation. It is perfect for use in low luminance rooms where low noise is more important than brightness.

Rich Connectivity This projector has a variety of I/O ports. It can be easily connected to many signal sources like PC, DVD and so on. The rich connectivity provides you more options to make your presentation impressive.

Compact Body Even with its many features, this projector is extremely compact and slim, which gives you more flexibility and usability to use it where you want.

Preparations

About contents of package Please see the "Contents of package" of the "User's Manual - Quick Guide". Your projector should come with the items shown there. Contact immediately your dealer if anything is missing.

NOTE · Keep the original packing materials for future reshipment. For moving the projector, be sure to use the original packing materials. Use special caution for the lens part.

Fastening the lens cover To avoid losing the lens cover, please fasten it the lens cap to the projector using the strap.

Strap ring Strap Bottom side Strap hole
1. Fix the strap to the strap ring of the lens cover.
2. Put the strap into the groove on the rivet.
3. Push the rivet into the strap hole.

3 Part names

Part names

Projector Lamp cover (41) (Lamp unit is inside.) Zoom knob (19) Focus ring (19) Vent (7) Lens (17) Front-Right side Control buttons (6) Remote sensor (16) Speaker Security bar (10) Use for attaching a commercial anti-theft chain or wire.) Elevator button (9) Elevator foot (9) Lens cover (3) Filter cover (42) (Air filter and intake vent are inside.) Bottom side WARNING During use or immediately after use, do not touch around the lamp and vents of the projector.

( ) It could cause a burn.

4 Part names

Power switch (17) AC inlet (14) Ports (See below.) Rear-Left side CONTROL port (12) AUDIO-OUT port (12) AUDIO IN2 L/R port (13) (In the default setting, the AUDIO IN2 L/R port is the audio port for the VIDEO, S-VIDEO and COMPONENT VIDEO ports, however it is possible to change the settings. 34) COMPONENT VIDEO ports (13) Y CB/PB CR/PR VIDEO port (13) S-VIDEO port (13) AUDIO IN1 port (12) (In the default setting, the AUDIO IN1 port is the audio port for the RGB IN1 and RGB IN2 ports, however, it is possible to change the settings. 34) Elevator button (9) Elevator foot (9) Vent (7) Restart switch (*) (48) RGB IN1 port (12) RGB IN2 /RGB OUT port (12) (Use the RGB IN OUT switch to select RGB IN2 or RGB OUT for this port.) RGB IN2 port: Inputs the RGB signal from a PC. RGB OUT port: When connected to a monitor, outputs the signal input via RGB

IN1. USB port (12) Y AUDIO IN2 R CONTROL RGB IN1 RGB IN2 RGB OUT K CB/PB CR/PR VIDEO L AUDIO OUT AUDIO IN1 USB S-VIDEO Ports RGB IN OUT switch (12) Use this button to select either RGB IN2 or RGB OUT for the corresponding port. When this switch is not pushed in, RGB IN2 is selected. When this switch is pushed in, RGB OUT is selected.

NOTE (*) About Restart switch: This projector is controlled by an internal microprocessor.

Under certain exceptional circumstances, the projector may not operate correctly and the microprocessor will need to be reset. In such a case, please push the Restart switch by using a cocktail stick or similar, and before turning on again, make the projector cool down at least 10 minutes without operating. Only push the Restart switch in these exceptional instances. 5 Part names Control buttons LAMP indicator (46, 47) Cursor buttons ,,, (24) STANDBY/ON button (17) TEMP indicator (46, 47) POWER indicator (17) INPUT button (18) Remote control SEARCH button (19) RGB button (18) VIDEO button (19) ASPECT button (19) HOME button (23) MAGNIFY ON button (21) OFF button (21) END button (23) FREEZE button (22) POSITION button (20) ESC button (24) ESC POSITION MENU VIDEO RGB SEARCH ASPECT AUTO BLANK STANDBY/ON button (17) AUTO button (20) BLANK button (22) PAGE UP button (23) VOLUME button (18) END PAGE DOWN MUTE ON MAGNIFY HOME PAGE UP VOLUME OFF MUTE button (18) PAGE DOWN button (23) KEYSTONE button (21) MENU button (24) FREEZE KEYSTONE ENTER RESET Cursor buttons ,,, (24) ENTER button (24) RESET button (24) Battery cover (15) (on the back) 6 Setting up Setting up WARNING Place the projector in a stable position horizontally. A fall or a turnover could cause an injury and/or damage to the projector. Then using damaged projector could result in a fire and/or an electric shock. · Do not place the projector on an unstable, slant or vibrant surface such as a wobbly or inclined stand. · Do not place the projector in the side/front/rear-up position, except cleaning the air filter. Place the projection in a cool place, and pay attention enough to ventilation.

The high temperature of the projector could cause a fire, a burn and/or malfunction to the projector. · Do not stop up, block and cover the projector's vents. · Keep a space of 30 cm or more between the sides and other objects such as walls. · Do not place the projector on a metallic thing or anything weak in heat. · Do not place the projector on a carpet, cushion or bedding.

· Do not place the projector in direct sunlight or near a hot object such as a heater. · Put nothing about lens and vents of the projector. Put nothing on the projector. · Put nothing that is sucked or sticks to the bottom of projector. This projector has some intake vents also on the bottom.

Do not place the projector on the place that gets wet. Damping the projector or inserting liquid in the projector could cause a fire, an electric shock and/or malfunction to the projector. · Do not place the projector in a bathroom or the outdoors. · Put nothing containing the liquid near the projector. CAUTION Avoid a smoky, humid or dusty place. Placing the projector in such place could cause a fire, an electric shock and/or malfunction to the projector. · Do not place the projector near a humidifier, a smoking space or a kitchen. Adjust the direction of the projector to keep the light from directly hitting the projector's remote sensor. 7 Setting up Arrangement Refer to the illustrations and tables below to determine the screen size and projection distance. The values shown in the table are calculated for a full size screen: CP-S240 : 800×600, CP-X250 : 1024×768 (b) (a) The screen size (diagonal) (b) Distance from the projector to the screen (±10%) (c) The height of the screen (±10%) (c) up 4:3 16:9 (a) (a) (c) down For the model CP-S240 (a) Screen size [inch (m)] 30 40 50 60 70 80 90 100 120 150 200 250 300 (0.

8) (1.0) (1.3) (1.5) (1.8) (2.0) (2.3) (2.5) (3.0) (3.8) (5.
1) (6.4) (7.6) 4 : 3 screen (b) Projection distance (c) Screen height [m (inch)] [cm (inch)] min. up max. down 0.
9 1.2 1.5 1.8 2.1 2.
4 2.8 3.1 3.7 4.6 6.2 7.7 9.2 (36) (48) (60) (72) (84) (96) (109) (121) (145) (182) (242) (303) (364) 1.1 1.5 1.

8 2.2 2.6 2.9 3.3 3.7 4.4 5.5 7.4 9.3 11.
1 (43) (57) (72) (87) (101) (116) (130) (145) (174) (218) (291) (364) (437) 5 6 8 9 11 12 14 15 18 23 30 38 46 (2) (2) (3) (4) (4) (5) (5) (6) (7) (9) (12) (15) (18) 41 55 69 82 96 110 123 137 165 206 274 343 411 16 : 9 screen (b) Projection distance (c) Screen height [m (inch)] [cm (inch)] min. max. down up (39) (52) (65) (79) (92) (105) (118) (132) (158) (198) (264) (330) (397) 1.2 1.6 2.
0 2.4 2.8 3.2 3.6 4.
0 4.8 6.0 8.1 10.1 12.1 (47) -1 (63) -2 (79) -2 (94) -2 (110) -3 (126) -3 (142) -4 (158) -4 (190) -5 (238) -6 (317) -8 (397) -10 (476) -12 (0) (-1) (-1) (-1) (-1) (-1) (-1) (-2) (-2) (-2) (-3) (-4) (-5) 39 51 64 77 90 103 116 129 154 193 257with core set. A too long cable may cause a certain picture degradation. Please consult with your dealer for details. For cables that have a core only at one end, connect the core to the projector. Make sure that you connect devices to the correct port.

Incorrect connection may result in malfunction and/or damage to the device and/or projector. NOTE · Whenever attempting to connect a laptop computer to the projector, be sure to activate the laptop's RGB external image output (set the laptop to CRT display or to simultaneous LCD and CRT display). For details on how this is done, please refer to the instruction manual of the corresponding laptop computer. · Secure the screws on the connectors and tighten. · Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector. · For some RGB signal modes, the optional Mac adapter is necessary. · When the image resolution is changed on a computer, depending on an input, automatic adjustment function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original.

It might be recommended to use other CRT or LCD monitors to change the resolution. About Plug-and-Play capability Plug-and-Play is a system composed of the computer, its operating system and peripheral equipment (i.e. display devices). This projector is compatible with VESA DDC 2B.

*Plug-and-Play can be achieved by connecting this projector to a computer is VESA DDC (display data channel) compatible. · Please take advantage of this function by connecting the accessory RGB cable to the RGB IN1 port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted. · Please use the standard drivers in your computer as this projector is a Plug-and-Play monitor. 11 Setting up Examples of connection with a computer * In the default setting, the AUDIO IN1 port is the audio port for the RGB IN1 and RGB IN2 ports.*

To change the settings, refer to the AUDIO item in the SETUP menu. (34) RGB cable USB cable Y AUDIO IN2 R CONTROL RGB IN1 RGB IN2 RGB OUT K RGB out Audio out RS-232C USB CB/PB CR/PR VIDEO L AUDIO OUT AUDIO IN1 USB S-VIDEO Stereo mini audio cable RS-232C cable Use the RGB IN OUT switch to select RGB IN2 (RGB IN2 is selected if the switch is not pushed in).

RGB IN1 Stereo mini audio cable RGB out Audio out Y AUDIO IN2 R CONTROL CB/PB CR/PR VIDEO L AUDIO OUT AUDIO IN1 RGB IN2 RGB OUT K RGB IN2 USB RGB cable S-VIDEO Connecting to a monitor (output) RGB in Use the RGB IN OUT switch to select RGB OUT (RGB OUT is selected if the switch is pushed in). Y AUDIO IN2 R CONTROL CB/PB CR/PR VIDEO L AUDIO OUT AUDIO IN1 RGB IN1 RGB IN2 RGB OUT K RGB OUT USB RGB cable S-VIDEO Connecting to a speaker with amplifier (output) Audio in Y AUDIO IN2 R CONTROL CB/PB CR/PR VIDEO S-VIDEO L AUDIO OUT AUDIO IN1 RGB IN1 RGB IN2 RGB OUT K USB Stereo mini audio cable 12 Setting up Examples of connection with a VCR/DVD player * In the default setting, the AUDIO IN2 L/R port is the audio port for the VIDEO, S-VIDEO and COMPONENT VIDEO ports. To change the settings, refer to the AUDIO item in the SETUP menu. (34) Audio/Video cable Audio (R) out Audio (L) out Video out Audio cable Y AUDIO IN2 R CONTROL CB/PB L AUDIO OUT AUDIO IN1 RGB IN1 RGB IN2 RGB OUT K Y AUDIO IN2 R CONTROL RGB IN1 RGB IN2 RGB OUT K CB/PB CR/PR VIDEO L AUDIO OUT AUDIO IN1 USB S-VIDEO Audio (R) out Audio (L) out S-Video out S-Video cable CR/PR VIDEO S-VIDEO USB Component video out Component video cable Y AUDIO IN2 Y R CB/PB CB/PB CONTROL L AUDIO OUT AUDIO IN1 RGB IN1 RGB IN2 RGB OUT K USB CR/PR Audio (R) out Audio (L) out CR/PR VIDEO S-VIDEO Audio cable Y AUDIO IN2 R CONTROL RGB IN1 RGB IN2 RGB OUT K CB/PB CR/PR VIDEO L AUDIO OUT AUDIO IN1 USB S-VIDEO 13 Setting up Connecting power supply WARNING Please use extra caution when connecting the power cord, as incorrect or faulty connections may result in fire and/or electrical shock. · Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one. · Only plug the power cord into an outlet rated for use with the power cord's specified voltage range. · Never modify the power cord.

Never attempt to defeat the ground connection of the three-pronged plug. AC inlet Connector of the power cord 1. Connect the connector of the power cord to the AC inlet of the projector. 2. Firmly plug the power cord's plug into the outlet. 14 Remote control Remote control Putting batteries WARNING Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment. · Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.

· Make sure the plus and minus terminals are correctly aligned when loading a battery. · Keep a battery away from children and pets. · Do not recharge, short circuit, solder or disassemble a battery. · Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.

· If you observe a leakage of a battery, wipe out the flower and then replace a battery. If the liquid adheres to your body or clothes, rinse well with water immediately. Remove the battery cover. 1. Slide back and remove the battery cover in the direction of the arrow.

Insert the 2. Align and batteries. two AA batteries according to their plus and minus insert the 3. terminals as indicated in the remote control. Close the battery cover. Replace the battery cover in the direction of the arrow and snap it back into place. 15 Remote control Using the remote control CAUTION Be careful in handling the remote control. · Do not drop or expose the remote control to physical impact. · Do not get the remote control wet or place it on wet objects. It may result in malfunction.

· Remove the batteries from the remote control and store them in a safe place if you won't be using the remote control for an extended period. · Replace the batteries whenever the remote control starts malfunctioning. · When strong lights (such as direct sunlight) or light from an extremely close range (such as from an inverter fluorescent lamp), hit the projector's remote sensor, the remote control may cause to function. Adjust the direction of the projector to keep the light from directly hitting the projector's remote sensor. The remote control works with the projector's remote sensor. 30º approx. 3 meters 30º · The range of the remote sensor is 3 meters with a 60 degree range (30 degrees to the left and right of the remote sensor). · Also a remote signal reflected in the screen etc. may be available. If it is difficult to send a remote signal to the sensor directly, please try to use the reflected signal.

· Since the remote control uses infrared light to send signals to the projector (Class1 LED), be sure to use the remote control in an area free from obstacles that could block the remote control's output signal to the projector. 16 Power on/off Power on/off WARNING When the power is on, a strong light is emitted. Do not look into the lens of projector. Also do not peep at the inside of projector through a hole. NOTE · Turn the power on/off in right order.

Please power on the projector prior to the connected devices. Power off the projector later than the connected devices. Make sure that the power cord is firmly and indicator button correctly connected to the projector and the outlet. Remove the lens cover, and set the power switch to the ON position. The power indicator will light up in steady orange.

Then wait several seconds because the buttons may not function for these several seconds. Press the STANDBY/ON button on the projector or the remote control. POWER The projector lamp will light up and the POWER indicator will begin blinking in green. When the power is (Steady orange) completely on, the indicator will stop blinking and light in POWER green. (Blinking in green) To display the picture, select an input signal according to POWER the section "Selecting an input signal" (18). VIDEO RGB SEARCH ASPECT AUTO BLANK Turning on the power 1. STANDBY/ON POWER 2. 3. ON MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE FREEZE KEYSTONE POSITION MENU ENTER ESC RESET Turning off the power (Steady green) This product is able to turn off the main power during the cooling. However, please pay special attention to below two points when you do: (1) Please do not turn the projector on again for at least 1 minute in this case.

Neglect could shorten the lifetime of the lamp. (2) During use or immediately after use, do not touch around the lamp and vents of the projector (4) It could cause a burn. Press the STANDBY/ON button on the projector or the remote control. The message "Power off?" will appear on the screen for approximately 5 seconds.

Press the STANDBY/ON button on the projector or the Power off? remote control again while the message appears. The projector lamp will go off, and the POWER indicator will POWER begin blinking in orange. Then the POWER indicator will stop blinking and light in (Blinking in orange) steady orange when the lamp cooling is complete. POWER Make sure that the power indicator lights in steady orange, (Steady orange) and set the power switch to the OFF position. The POWER indicator will go off. Attach the lens cover.

1. 2. 3. 17 Operating Operating Adjusting the volume remote 1. Press the VOLUME button on theaid you in control.

the volume. A dialog will appear on the screen to adjusting the volume. 2. Use the cursor buttons / to adjustoperation, press the To close the dialog and complete the VOLUME button again. Even if you don't do anything, the dialog will automatically disappear after a few seconds.

VIDEO RGB SEARCH ASPECT AUTO BLANK ON MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE FREEZE VIDEO RGB KEYSTONE SEARCH Temporarily muting the sound ASPECT AUTO BLANK MUTE button on 1. Press the appear on the screen the remote control. muted the sound. A dialog will indicating that you have To restore the sound, press the MUTE or VOLUME button. Even if you don't do anything, the dialog will automatically disappear after a few seconds. POSITION MAGNIFY ON HOME PAGE UP MENU VOLUME OFF END ENTER PAGE DOWN MUTE ESC FREEZE RESET KEYSTONE POSITION MENU Selecting an input signal the 1. Presstime INPUT button on the projector. switches its Each you press the button, the projector ENTER ESC RESET 1. input port as below. RGB IN1 RGB IN2 VIDEO S-VIDEO COMPONENT VIDEO When the RGB IN2/RGB OUT port functions as an RGB out port (the RGB IN OUT switch is pushed in), RGB IN2 cannot be selected.

In that case "RGB2/RGB OUT RGB OUT" message will be displayed. Press the RGB button on the remote control to select an input port for the RGB signal. Each time you press the button, the projector switches its RGB input port as below. RGB IN1 RGB IN2 VIDEO RGB SEARCH ASPECT AUTO ON MAGNIFY BLANK HOME PAGE UP VOLUME If the RGB button is pushed (when switching from VIDEO to RGB signals) when TURN ON is selected for the AUTO SEARCH item in the OPTION menu the projector will check the RGB IN1 port first. If no input is detected at the port, the projector will check the RGB IN2 port. When the RGB IN2/RGB OUT port functions as an RGB out port (the RGB IN OUT switch is pushed in), RGB IN2 cannot be selected. In that case "RGB2/ RGB OUT RGB OUT" message will be displayed. OFF END PAGE DOWN MUTE FREEZE KEYSTONE POSITION MENU ENTER ESC RESET 18 Operating Selecting an input signal (continued) the VIDEO button 1. Pressfor video signal. on the remote control to select an input Each time you press the button, the projector switches its video input port as below.

COMPONENT VIDEO S-VIDEO VIDEO ON VIDEO RGB SEARCH ASPECT AUTO BLANK MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE If the VIDEO button is pushed (when switching from RGB to VIDEO signals) when TURN ON is selected for the AUTO SEARCH item in the OPTION menu the projector will check the COMPONENT VIDEO port first. If no input is detected at the port, projector will begin to check other ports in above order. POSITION MENU ENTER FREEZE KEYSTONE Searching an input signal ESC RESET 1. Press the SEARCH button on the remote control. to The projector will start to check its input ports in order VIDEO RGB SEARCH ASPECT AUTO BLANK find any input signals.

Then when an input is found, the projector will stop searching and display the image. If no signal is found, the projector will return to the state selected before the operation. RGB IN 1 RGB IN 2 COMPONENT VIDEO S-VIDEO VIDEO ON MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE FREEZE KEYSTONE POSITION MENU Selecting an aspect ratio ratio in turn. For an RGB signal NORMAL 4:3 16:9 ENTER the remote control. 1. PresstimeASPECT button on thethe projector switches the mode for aspect Each you press the button, ESC RESET VIDEO RGB SEARCH For a video signal/no signal 4:3 16:9 SMALL ASPECT AUTO BLANK ON MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE The NORMAL mode keeps the original aspect ratio of the signal. For an HDTV signal of 1125i (1080i) or 750p (720p) as the COMPONENT VIDEO input, only 16:9 mode can be selected. Performing the automatic adjustment initializes the aspect ratio setting. FREEZE POSITION ENTER KEYSTONE MENU Adjusting the zoom and focus 1. Use the zoom knob to adjust the screen size. 2. Use the focus ring to focus the picture. Focus ring ESC Zoom knob RESET 19 Operating Using the automatic adjustment feature 1. Press the AUTO button on the remote control. For an RGB signal The vertical position, the horizontal position, the clock phase and the horizontal size will be automatically adjusted.

And the aspect ratio will be automatically selected. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting. For a video signal or s-video signal The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO mode is selected to the VIDEO FORMAT item in the INPUT menu (32). For a component video signal, the signal type is identified automatically independently of this function. For a video signal, s-video signal or component video signal The vertical position and horizontal position will be automatically adjusted. For a component video signal The aspect ratio will be automatically selected. The clock phase will be automatically adjusted.

The automatic adjustment operation requires approximately 10 seconds. Also please note that it may not function correctly with some input. ASPECT AUTO BLANK ON MAGNIFY VIDEO RGB SEARCH HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE FREEZE KEYSTONE POSITION MENU ENTER ESC RESET VIDEO RGB SEARCH ASPECT AUTO BLANK ON MAGNIFY HOME PAGE UP VOLUME Adjusting the position OFF END PAGE DOWN MUTE on the remote control. 1. Press the POSITION buttonwill appear on the screen.

The "POSITION" indication 2. Use the cursor buttons /// to adjust the picture position. FREEZE KEYSTONE POSITION MENU When you want to reset the operation, press the RESET button on the remote control during the operation. To complete this operation, press the POSITION button again.

Even if you don't do anything, the dialog will automatically disappear after a few seconds.

When this function is performed at a video signal, a certain extra such as a line may appear outside a picture. ESC RESET ENTER 20 Operating VIDEO RGB SEARCH Correcting the keystone distortions ASPECT AUTO BLANK the remote 1. Press the KEYSTONE button onto aid you incontrol. A the dialog will appear on the screen correcting ON MAGNIFY HOME PAGE UP VOLUME 2. distortion. Use the cursor buttons / to correct the distortion. To close the dialog and complete this operation, press the KEYSTONE button again. Even if you don't do anything, the dialog will automatically disappear after a few seconds. The adjustable range for correction will vary among inputs. For some input, this function may not work well.

When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly. When the zoom adjustment is set to the TELE (telephoto focus), this correction may be excessive. This function should be used when the zoom adjustment is set to the WIDE (wide-angle focus) whenever possible. FREEZE KEYSTONE POSITION MENU ENTER ESC RESET OFF END PAGE DOWN MUTE Using the magnify feature 1. Press the ON button of MAGNIFY on the remote control. The "MAGNIFY" indication will appear on the screen 2. VIDEO RGB SEARCH ASPECT AUTO BLANK (although the indication will disappear in several seconds with no operation), and the projector will enter the MAGNIFY mode. ON MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE Use the cursor buttons / to adjust the zoom level. To move the zoom area, press the POSITION button in the MAGNIFY mode, then use the cursor buttons /// to move the area. And to finalize the zoom area, press the POSITION button again.

To exit the MAGNIFY mode and restore the screen to normal, press the OFF button of MAGNIFY on the remote control. The projector automatically exits the MAGNIFY mode when the input signal is changed, or when the display condition is changed. Although in the MAGNIFY mode, the keystone distortion condition may vary, it will be restored when the projector exits the MAGNIFY mode. FREEZE KEYSTONE POSITION MENU ENTER ESC RESET 21 Operating Freezing the screen VIDEO RGB SEARCH ASPECT AUTO BLANK on the remote control. 1.

Press the FREEZE buttonwill appear on the screen, and the The "FREEZE" indication ON MAGNIFY HOME PAGE UP VOLUME projector will enter the FREEZE mode. To exit the FREEZE mode and restore the screen to normal, press the FREEZE button again. The projector automatically exits the FREEZE mode when the input signal changes, or when one of the projector's buttons or the remote control buttons of STANDBY/ON, SEARCH, RGB, VIDEO, BLANK, AUTO, ASPECT, VOLUME, MUTE, KEYSTONE, POSITION and MENU is pressed. If the projector continues projecting a still image for long time, the LCD panel might possibly be printed. Do not leave the projector in the FREEZE mode for too long.

OFF FREEZE KEYSTONE POSITION MENU ENTER ESC RESET END PAGE DOWN MUTE Temporarily blanking the screen button on the remote control. 1. Press the BLANK will be displayed instead of the screen of The blank screen VIDEO RGB SEARCH input signal. Please refer to the BLANK item in the SCREEN menu (35). To exit the blank screen and return to the input signal screen, press the BLANK button again. The projector automatically returns to the input signal screen when the input signal is changed, or when one of the projector's buttons or the remote control buttons is pressed. ASPECT AUTO BLANK ON MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE FREEZE KEYSTONE POSITION MENU ENTER ESC RESET 22 Operating Operating the computer screen · While using this function, please connect only with a computer. · Before connecting, read the manuals of the computer you will connect. CAUTION Mistaken use of the mouse/keyboard control could damage your equipment. NOTE · It may not be possible to control notebook PC, and other computers with built-in pointing device (e.

g. track ball), using this remote control. In this case, before connecting go into BIOS (system setup) and select external mouse, and disable the pointing device. In addition, the mouse may not function if the computer does not have the needed utility program. See your computer's hardware manual for details. · The USB control can be used with Windows 95 OSR 2.1 or higher. It may not be possible to use the remote control, depending on the computer's configurations and mouse drivers. · The USB control can be used only for the functions listed below. You cannot do things like press two buttons at once (for instance, pressing two buttons at the same time to move the mouse pointer diagonally).

· This function is not available while the lamp is warming up (the POWER indicator flashes green), and while adjusting the volume and display, correcting for trapezoidal distortion, zooming in on the screen, using the BLANK function, or displaying the menu screen. USB mouse and keyboard control 1. Connect the projector's USB port to the computer via the mouse cable. VIDEO RGB SEARCH Available function BLANK VOLUME Remote control operation Use , , , buttons Press ENTER button Press RESET button Press HOME button Press END button Press PAGE UP button Press PAGE DOWN button Press ESC button ASPECT AUTO ON MAGNIFY HOME PAGE UP OFF END PAGE DOWN MUTE FREEZE KEYSTONE POSITION MENU ENTER ESC RESET Move pointer Left click with mouse Right click with mouse Press keyboard's HOME key Press keyboard's END key Press keyboard's PAGE UP key Press keyboard's PAGE DOWN key Press keyboard's ESC key 23 Multifunctional settings Multifunctional settings Using the menu function ON VIDEO RGB SEARCH This projector has the following menus: PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION, and EASY MENU. EASY MENU cosists of functions often used, and the other menus are classified into each purpose.

Each of these menus is operated using the same methods. The basic operations of these menus are as follows. ASPECT AUTO BLANK MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE FREEZE KEYSTONE MENU button ENTER button Cursor buttons RESET button POSITION MENU ENTER VIDEO RGB SEARCH ASPECT AUTO BLANK ON MAGNIFY HOME PAGE UP VOLUME OFF END PAGE DOWN MUTE FREEZE KEYSTONE POSITION MENU ESC RESET ESC ENTER RESET Press the 1. the cursor MENU button on the remote control or one of buttons on the projector. MENU[RGB] :SELECT BRIGHTNESS0 CONTRAST0 GAMMADEFAULT1 COLORTEMPMIDDLE COLOR+0 TINT+0 SHARPNESS3 PROGRESSIVETURNOFF MYMEMORYSAVE1 The Advanced MENU or EASY MENU will appear.

In the EASY MENU If you want to change it to the Advanced MENU, select the "Go to Advanced Menu" Use the cursor buttons / to select an item to operate. PICTURE IMAGE INPUT SETUP SCREEN OPTION EASYMENU 2. 3. 4. Use the cursor buttons/ to operate the item. 2. 3. 4. EASYMENU ASPECT4:3 +0 KEYSTONE MODE NORMAL +0 BRIGHTNESS +0 CONTRAST +0 COLOR +0 TINT 3 SHARPNESS WHISPER NORMAL MIRROR NORMAL RESET FILTERTIME 0h LANGUAGE ENGLISH GoToAdvanceMenu..

. In the Advanced MENU Use the cursor buttons / to select a menu. If you want to change it to the EASY MENU, select the EASY MENU. Then press the cursor button on the projector or remote control, or the ENTER button on the remote control to select an item. The display of the selected menu will be active. Use the cursor buttons / to select an item to operate. Then press the cursor button on the projector or remote control, or the ENTER button on the remote control to progress. The operation menu of the selected item will appear. Use the cursor buttons/ to operate the item. When you want to reset the operation, press the RESET button on the remote control during the operation.
Note that items whose functions are performed simultaneously with operation (ex. LANGUAGE, H PHASE, VOLUME etc.) cannot be reset. In the advanced menu, when you want to return to the previous display, press the cursor button on the projector or remote control, or the ESC button on the remote control. Press the MENU button on the remote control again to close the menu and complete this operation.
Even if you don't do anything, the dialog will automatically disappear after about 10 seconds. Some functions cannot be performed when a certain input port is selected, or when a certain input signal is displayed. 24 5. Multifunctional settings EASY Menu With the EASY MENU, items shown in the table below can be performed. Select an item using the cursor buttons / on the projector or remote control.
Then perform it referring to the following table. EASYMENU ASPECT4:3 +0 KEYSTONE MODE NORMAL +0 BRIGHTNESS +0 CONTRAST +0 COLOR +0 TINT 3 SHARPNESS WHISPER NORMAL MIRROR NORMAL RESET FILTERTIME 0h LANGUAGE ENGLISH GoToAdvanceMenu... Item ASPECT KEYSTONE Description Using the buttons / switches the mode for aspect ratio. See the ASPECT item in the IMAGE menu (30). Using the buttons / corrects the keystone distortion. See the item KEYSTONE of section SETUP menu. (21) Using the buttons / switches the mode of picture type. The modes of picture type are combinations of a mode of GAMMA and a mode of COLOR TEMP.

Choose a suitable mode according to the projected source. NORMAL CINEMA DYNAMIC MODE NORMAL: (COLOR TEMP = MIDDLE) + (GAMMA = #1 DEFAULT) CINEMA: (COLOR TEMP = LOW) + (GAMMA = #2 DEFAULT) DYNAMIC: (COLOR TEMP = HIGH) + (GAMMA = #3 DEFAULT) · When the combination of GAMMA and COLOR TEMP differs from pre-assigned modes above, the display on the menu for the MODE is "CUSTOM". Please refer to the GAMMA (27) and COLOR TEMP (28) items in the PICTURE menu. · When this function is performed, a certain extra such as a line may appear. Using the buttons / adjusts the brightness. See the item BRIGHTNESS in the PICTURE menu (27). Using the buttons / adjusts the contrast. See the item CONTRAST of section PICTURE menu (27). Using the buttons / adjusts the strength of whole color. See the COLOR item in the PICTURE menu (28).
Using the buttons / adjusts the tint. See the TINT item in the PICTURE menu (28). Using the buttons / adjusts the sharpness. See the SHARPNESS item in the PICTURE menu (28). · There may be some noise when an adjustment is made.
This is not a malfunction. Using the buttons / turns off/on the whisper mode. See the WHISPER item in the SETUP menu (34). 25 BRIGHTNESS CONTRAST COLOR TINT SHRPNESS WHISPER Multifunctional settings EASY Menu (continued) Item MIRROR Description Using the buttons / switches the mode for mirror status. See the MIRROR item in the SETUP menu (34).
Performing this item resets all of the items of EASY MENU except FILTER TIME and LANGUAGE. A dialog is displayed for confirmation. Selecting RESET using the button performs resetting. Performing this item resets the filter timer which counts usage time of the air filter. A dialog is displayed for confirmation. Selecting RESET using the button performs resetting. See the FILTER TIME item in the OPTION menu (38). Select the LANGUAGE item to toggle the menu language. Refer to description of LANGUAGE in the SCREEN menu (35). Select "Go To Advanced Menu" to use the menu of PICTURE, IMAGE, INPUT, SETUP, SCREEN or OPTION.

RESET FILTER TIME LANGUAGE Go To Advanced Menu 26 Multifunctional settings PICTURE Menu With the PICTURE menu, the items shown in the table below can be performed. @@Then perform it referring to the following table. Item BRIGHTNESS CONTRAST Description Using the buttons / adjusts the brightness. : Using the buttons / adjusts the contrast. : Light Dark Strong Weak MENU[RGB] :SELECT BRIGHTNESS0 CONTRAST0 GAMMADEFAULT1 COLORTEMPMIDDLE COLOR+0 TINT+0 SHARPNESS3 PROGRESSIVETURNOFF MYMEMORYSAVE1 PICTURE IMAGE INPUT SETUP SCREEN OPTION EASYMENU Using the buttons / switches the GAMMA mode. #1 DEFAULT #1 CUSTOM #2 DEFAULT #3 CUSTOM #3 DEFAULT #2 CUSTOM To adjust #1 CUSTOM, #2 CUSTOM or #3 CUSTOM Selecting a mode of CUSTOM and then pressing the button or the ENTER button ENTER : 1234567 8 displays a dialog to aid you in adjusting the mode. This function is useful when you want to change the brightness of particular tones. +0 +0 +0 +0 +0 +0 +0 +0 Choose an item using the buttons /, and GAMMA [CUSTOM 1] adjust the level using the buttons /. You can display a test pattern for checking the effect of your adjustment by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as below.
No pattern Gray scale of 9 steps Ramp Gray scale of 15 steps The eight equalizing bars correspond to eight tone levels of the test pattern except the darkest in the left end. If you want to adjust the 2nd tone from left end on the test pattern, use the equalizing adjustment bar "1". The darkest tone at the left end of the test pattern cannot be controlled with any of equalizing adjustment bar. · When this function is performed, a certain extra such as a line may appear. GAMMA 27 Multifunctional settings PICTURE Menu (continued) Item Description Using the buttons / switches the mode of color temperature.
HIGH MIDDLE LOW CUSTOM To adjust CUSTOM Selecting the CUSTOM and then pressing the ENTER : button or the ENTER button displays a dialog OFFSET GAIN to aid you in adjusting the OFFSET and/or GAIN R G B R G B of the CUSTOM mode. OFFSET adjustments change the color intensity on the whole tones of the test pattern. +0 +0 +0 +0 +0 +0 COLOR TEMP GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern. Choose an item using the buttons /, and adjust the level using the buttons /.

You can display a test pattern for checking the effect of your adjustment by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as below. No pattern Gray scale of 9 steps Ramp Gray scale of 15 steps · When this function is performed, a certain extra such as a line may appear. COLOR Using the buttons / adjusts the strength of whole color. Strong Weak · This item can be selected only for a video signal. Using the buttons / adjusts the tint. Green Red · This item can be selected only for a video signal except for SECAM. Using the buttons / adjusts the sharpness. Strong Weak · There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction. COLOR TEMP TINT SHARPNESS 28 Multifunctional settings PICTURE Menu (continued) Item Description Using the buttons / switches the progress mode.

TV FILM TURN OFF · This function is performed only for an interlaced signal of a VIDEO input, an S-VIDEO input or CONPONENT VODEO input of 525i (480i) or 625i (576i) signal. · When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system. But these may cause a certain defect (for example, jagged line) of the picture for a quick moving object. In such a case, please select TURN OFF, even though the screen image may lose the sharpness. Selecting a mode of MY MEMORY using the buttons / and then pressing the button or the ENTER button performs each function. LOAD1 LOAD2 LOAD3 LOAD4 SAVE4 SAVE3 SAVE2 SAVE1 This projector has 4 numbered memories for adjustment data. Performing the LOAD1, LOAD2, LOAD3 or LOAD4 loads the data on the memory whose number corresponds to the command's number, and adjusts the picture automatically depending on the data. @@@@@@@@@@@@@@@@Using the buttons / adjusts the over-scan ratio. @@@@In such a case, please adjust small.
Using the buttons / adjusts the vertical position. @@@@@Using the buttons / adjusts the horizontal position. @@@@@@@@@@@@@@@@@@@Selecting this item performs the automatic adjustment feature. For an RGB signal The vertical position, the horizontal position, the clock phase and the horizontal size will be automatically adjusted. And the aspect ratio will be automatically selected. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting. For a video signal or s-video signal The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO mode is selected to the VIDEO FORMAT item in the INPUT menu.
For a component video signal, the signal type is identified automatically independently of this function. For a video signal, s-video signal or component video signal The vertical position and horizontal position will be automatically adjusted. For a component video signal The aspect ratio will be automatically selected. The clock phase will be automatically adjusted. · The automatic adjustment operation requires approximately 10 seconds. Also please note that it may not function correctly with some input. H SIZE AUTO ADJUST EXECUTE 31 Multifunctional settings INPUT Menu With the INPUT menu, the items shown in the table below can be performed. @@Then perform it referring to the following table. Item Description Using the buttons / switches the mode for color space. AUTO RGB SMPTE240 REC709 REC601 COLOR SPACE · This item can be selected only for an RGB signal or a component video signal (except signals of 525i(480i)/625i(576i)/SCART RGB from the component video port).

· The AUTO mode automatically selects the optimum mode. · The AUTO operation may not work well at some signals. In such a case, it might be good to select a suitable mode except AUTO. Using the buttons / switches the function of COMPONENT VIDEO port. COMPONENT SCART RGB When the SCART RGB is selected, the COMPONENT VIDEO port function as a port for a SCART RGB signal input. A SCART adapter and SCART cable realize a SCART RGB input to the projector. For details, contact your dealer. Using the buttons / switches the mode for video format. AUTO NTSC PAL SECAM N-PAL M-PAL NTSC4.43 · This item is performed only for a video signal from the VIDEO port or the S-VIDEO port.
For a component video signal, the signal type is identified automatically independently of this function. · The AUTO mode automatically selects the optimum mode. · The AUTO operation may not work well for some signals. If the picture becomes unstable (ex. an irregular picture, a color lack), please select the mode depending on the input signal.
Using the buttons / turns the frame lock function on/off. TURN ON TURN OFF · This item performs only at a RGB signal with vertical frequency of 50 to 72 Hz for the model CP-S240, or 50 to 60 Hz for the model CP-X250. · When the TURN ON is selected, a moving picture is displayed more smoothly. · This function may cause a certain degradation of the picture. In such a case, please select the TURN OFF.
MENU[RGB] PICTURE IMAGE INPUT SETUP SCREEN OPTION EASYMENU :SELECT COLORSPACEAUTO COMPONENTCOMPONENT VIDEOFORMATAUTO TURNON FRAMELOCK INFORMATION COMPONENT VIDEO FORMAT FRAME LOCK 32 Multifunctional settings INPUT Menu (continued) Item Description Selecting this item displays a dialog titled "INPUT INFORMATION". It shows the information about the current input. INPUT-INFORMATION RGB 1024x768 @60.0 FRAME LOCK INPUT-INFORMATION S-VIDEO SECAM AUTO INPUT-INFORMATION COMPONENT 576i @50 SCART RGB INFORMATION · The "FRAME LOCK" message on the dialog means the frame lock function is working. This function automatically works when a RGB signal with vertical frequency of 50 to 60 Hz is input, and it displays a moving picture more smoothly. · The "SCART RGB" message means the COMPONENT VIDEO port is working as a SCART RGB input port. Please refer to the COMPONENT item in this menu. (32) · This item can't be selected for no signal and sync out. 33 Multifunctional settings SETUP Menu With the SETUP menu, the items shown in the table below can be performed. @@Then perform it referring to the following table.

Item Description Using the buttons / corrects the keystone distortion. Upper in the data Lower in the data · The adjustable range of this function will vary with the type of input signal. At some signals, this function may not work well. · When the V:INVERT or the H&V:INVERT is selected under the item MIRROR, if the projector screen is inclined or if the projector is angled downward, this function may not work correctly. · When the zoom adjustment is set to the TELE side, this correction may be excessive. This function should be used with zoom set to WIDE whenever possible.

Using the buttons / turns off/on the whisper mode. NORMAL WHISPER · When the WHISPER is selected, acoustic noise and screen brightness are reduced. Using the buttons / switches the mode for mirror status. MIRROR NORMAL H:INVERT V:INVERT H&V:INVERT VOLUME Using the buttons / adjusts the volume.

High Low Choose an input port using the buttons / (1), then select the audio port to be interlocked with the input port using the buttons / (2). When off is selected, both of two audio ports do not work for the input port. AUDIO MENU[RGB] PICTURE IMAGE INPUT SETUP SCREEN OPTION EASYMENU :SELECT KEYSTONE+0 WHISPERNORMAL MIRRORNORMAL VOLUME16 AUDIO KEYSTONE WHISPER AUDIO QUIT RGB1 RGB2 COMPONENT SVIDEO VIDEO 12 (1) RGB1 RGB2 COMPONENT S-VIDEO VIDEO (2) 1 2 34 Multifunctional settings SCREEN Menu With the SCREEN menu, the items shown in the table below can be performed. @@Then perform it referring to the following table. Item Description Using the buttons / switches the OSD (On Screen Display) language.

ENGLISH FRANÇAIS DEUTSCH ESPAÑOL ITALIANO MENU[RGB] PICTURE IMAGE INPUT SETUP SCREEN OPTION EASYMENU :SELECT LANGUAGEENGLISH MENUPOSITION OSDBRIGHT.5 BLANKBLACK STARTUPORIGINAL MyScreen MyScreenLockTURNOFF MESSAGETURNON LANGUAGE NORSK NEDERLANDS PORTUGUÊS SVENSKA SUOMI POLSKI TÜRKÇE MENU POSITION Using the buttons /// adjusts the menu position. To quit the operation, press the MENU button on the remote control or keep no operation for 10 seconds. Using the buttons / switches the brightness level of the OSD (On Screen Display). BRIGHT DARK Using the buttons / switches the mode for the blank screen.

The blank screen is a screen for the temporarily blanking feature (22). It is displayed by pressing the BLANK button on the remote control. MyScreen ORIGINAL BLUE WHITE BLACK OSD BRIGHT. BLANK MyScreen is a screen you can register as a desired screen. The ORIGINAL screen is the existing standard screen. BLUE, WHITE and BLACK are non-patterned (plain) screens in each color. · To avoid remaining as an afterimage, the MyScreen and the ORIGINAL screens will change to the BLACK screen after several minutes. · For the MyScreen, please refer to the MyScreen item (36). 35 Multifunctional settings SCREEN Menu (continued) Item Description Using the buttons / switches the mode for the start-up screen. The start-up screen is a screen displayed when no signal or an unsuitable signal is detected.

MyScreen ORIGINAL TURN OFF MyScreen is a screen you can register as a desired screen.The ORIGINAL screen is the existing standard screen. When TURN OFF is selected, the BLACK screen is used. · To avoid remaining as an afterimage, the MyScreen and the ORIGINAL screens will change to the BLANK screen after several minutes. If also the BLANK screen is the MyScreen or ORIGINAL, it will change to the BLACK screen. · For the MyScreen, please refer to the item MyScreen below. For the BLANK screen, please refer to the BLANK item (35). This item functions for capturing the MyScreen of the blank screen and the start-up screen. Please execute displaying the input including the picture you want to capture. 1.

Selecting this item displays a dialog titled "MyScreen". It will ask you if you start capturing the picture from the current screen. Please wait for the target picture to be displayed, and press the ENTER button on the remote control when the picture is displayed. The picture will freeze and the frame for capturing appears. To stop performing, press the RESET or ESC button on the remote control.

2. Using the buttons /// adjusts the frame position. Please move the frame to the position of the picture which you want to use. The frame may not be able to be moved for some input signals. To start registration, press the ENTER button on the remote control.

To restore the screen and return to the previous dialog, press the RESET or ESC button on the remote control. Registration takes several minutes. When the registration is completed, the registered screen and the message "MyScreen registration is finished." are displayed for several seconds. If the registration failed, the message "A capturing error has occurred. Please try again." is displayed. Using the buttons / turns on/off the MyScreen lock function. TURN ON TURN OFF When the TURN ON is selected, the item MyScreen is locked. Use this function for protecting the current MyScreen.

START UP MyScreen MyScreen Lock 36 Multifunctional settings SCREEN Menu (continued) Item Description Using the buttons / turns on/off the message function. TURN ON TURN OFF When the TURN ON is selected, the following message function works. "AUTO IN PROGRESS" while automatically adjusting "NO INPUT IS DETECTED" "SYNC IS OUT OF RANGE" "Searching...." while searching for the input "Detecting....

" while an input signal is detected The indication of the input signal displayed by changing The indication of the aspect ration displayed by changing The indication of "FREEZE" and "II" while freezing the screen by pressing the FREEZE button. · When the TURN OFF is selected, please remember if the picture is freezing. Do not mistake freezing for a malfurction (22). MESSAGE 37 Multifunctional settings OPTION Menu With the OPTION menu, the items shown in the table below can be performed. Select an item using the cursor buttons / on the projector or remote control, and press the cursor button on the projector or remote control, or the ENTER button on the remote control to execute the item, except for the items LAMP TIME and FILTER TIME.

Then perform it referring to the following table. Item Description Using the buttons / turns on/off the automatic signal search function. TURN ON TURN OFF This function works with INPUT, RGB, and VIDEO buttons. When the TURN ON is selected, detecting no signal automatically cycles through input ports in the following order. The search is started from the current port.

Then when an input is found, the projector will stop searching and display the image. RGB IN1 RGB IN2 COMPONENT VIDEO S-VIDEO VIDEO · When the RGB IN2/RGB OUT port functions as an RGB out port (the RGB IN OUT switch is pushed in), RGB IN2 cannot be selected. In that case "RGB2/RGB OUT RGB OUT" message will be displayed. Using the buttons / adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) Short (min. 0 minute = DISABLE) AUTO OFF ENABLE AUTO OFF DISABLE 0 MENU[RGB] PICTURE IMAGE INPUT SETUP SCREEN OPTION EASYMENU :SELECT AUTOSEARCHTURNOFF AUTOOFF0min LAMPTIME0h FILTERTIME0h SERVICE AUTO SEARCH AUTO OFF 1 When the time is set to 0, the projector is not turned off automatically. When the time is set to 1 to 99, and when the passed time with nosignal or an unsuitable signal reaches at the set time, the projector lamp will go off and the power indicator begins blinking.

Please refer to the section "Turning off the power" (17). The lamp time is the time counted after the last resetting.

It is shown in the OPTION menu as the usage time of the lamp. Pressing the RESET button on the remote control or the button of the projector displays a dialog. To reset the lamp time, select the RESET using the button . RESET CANCEL · Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp. · For the lamp replacement, see the section "Lamp" (40, 41). The filter time is the time counted after the last resetting. It is shown in the OPTION menu as the usage time of the air filter. Pressing the RESET button on the remote control or the button of the projector displays a dialog. To reset the filter time, select the RESET using the button . RESET CANCEL · Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.

· For the air filter cleaning, see the section "Air filter" (42). LAMP TIME FILTER TIME 38 Multifunctional settings OPTION Menu (continued) Item Description Selecting this item displays the SERVICE menu. Select an item using the buttons /, and press the button or the ENTER button on the remote control to execute the item. FAN SPEED AUTO ADJUST GHOST KEY LOCK FILTER MESSAG FACTORY RESET FAN SPEED Using the buttons / switches the rotation speed of the cooling fans. The HIGH is the mode for use at highlands etc.

Note that the projector is noisier when the HIGH is selected. HIGH NORMAL AUTO ADJUST Using the buttons / enables/disables the automatic adjustment. When DISABLE is selected, the automatic adjustment feature is disabled, although rough adjustment is automatically performed depending on the basic setting. ENABLE DISABLE · Depending on conditions, such as input image, signal cable to the projector, environment around the projector, etc., the automatic adjustment may not work correctly.

In such a case, please choose DISABLE to disable the automatic adjustment, and make adjustment manually. GHOST 1. Select a color element of ghost using the buttons /. 2. Adjust the selected element using the buttons / to disappear ghost. KEY LOCK Using the buttons / turns on/off the key lock feature. When TURN ON is selected, the buttons on the projector except the STANDBY/ON button are locked. TURN ON TURN OFF · Please use to avoid a mischief and touching accidentally. This function does not have any effect on the remote control. FILTER MESSAGE Use the / button to set the timer for the interval to show the message for cleaning up the air filter.

50h 100h 200h 300h TURN OFF After selecting "50h", "100h", "200h", or "300h", the message "CLEAN THE AIR FILTER" will appear after the timer reaches the interval time set by the menu. (38) When the "TURN OFF" is chosen, the air filter cleaning message will not appear. · Please check and clean the air filter periodically, even if there is no message. If the air filter becomes to be blocked by dust or others, the internal temperature will rise, which could cause malfunction, or reduce the lifetime of the projector. · It is recommended to choose "100h" in general. Please be careful with the operating environment of the projector and the condition of the air filter, especially when the "200h", "300h or "TURN OFF" is chosen. FACTORY RESET Selecting RESET using the button performs this function. By this function, all the items in all of menus will collectively return to the initial setting. Note that the items LAMP TIME, FILTER TIME and LANGUAGE are not reset. RESET CANCEL 39 SERVICE Maintenance Maintenance Lamp WARNING HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE The projector uses a high-pressure mercury glass lamp.

The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes. About disposal of a lamp · This product contains a mercury lamp; do not put it in a trash. Dispose of it in accordance with environmental laws.

For lamp recycling, go to www.lamprecycle.org. (in the US) For product disposal, contact your local government agency or www.eiae.

org (in the US) or www.epsc.ca (in Canada). For more information, call your dealer. · If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the inside of the projector, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself. Disconnect · If the lamp should break (it will make a loud bang when it does), the plug ventilate the room well, and make sure not to breathe the gas that from the comes out of the projector vents, or get it in your eyes or mouth. power · Before replacing the lamp, turn the projector off and unplug the power outlet cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp. · Never unscrew except the appointed (marked by an arrow) screws.

· Do not open the lamp cover while the projector is suspended from the ceiling. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken. · Do not use the projector with the lamp cover removed. To replace the lamp, make sure that the screws are tightened firmly. Loose screws could result in damage or injury. · Use only the lamp of the specified type. · If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative. · Handle with care: jolting or scratching could cause the lamp bulb to burst during use.

· Using the lamp for long periods of time, could cause it dark, not to light up or to burst. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage. 40 Maintenance Lamp (continued) A lamp has a finite product life. Using the lamp for long periods of time could cause the pictures darker or the color tone poor.

Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. Preparation of a new lamp and early replacement are recommended.