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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI XD280. You'll find the answers to all your questions on the MITSUBISHI XD280 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI XD280
User guide MITSUBISHI XD280
Operating instructions MITSUBISHI XD280
Instructions for use MITSUBISHI XD280
Instruction manual MITSUBISHI XD280



DATA PROJECTOR

MODEL

XD250U/XD250U-G
XD280U/XD280U-G

User Manual



ENGLISH

XD250U
XD250U-G
XD280U
XD280U-G

This User Manual is important to you.
Please read it before using your projector.



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.25 Network settings

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

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

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

.....27 Advanced features .

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

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

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

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

.....30 Lamp replacement .

.....
.....

.....

.....

.....

.....

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.....

.....

.....

.....

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.....

.....

....33 Troubleshooting .

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.....

.....

.....

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.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

...35 Indicators

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.....

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.....

.....

.....

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.....

.....

.....38 Specifications ...

Ventilation Slots and openings in the cabinet are provided for ventilation, ensuring reliable operation of the projector and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the projector on a bed, sofa, rug, or bookcase. Ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to. Power sources This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your appliance dealer or local power company.

Power-cord protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and points where they exit from the appliance. Do not put the power cord under a carpet.

EN-4 WARNING: Unplug immediately if there is something wrong with your projector. Do not operate if smoke, strange noise or odor comes out of your projector. It may cause fire or electric shock. In this case, unplug immediately and contact your dealer. Do not block the air inlet and outlet grilles. ENGLISH If they are blocked, heat may be generated inside the projector, causing deterioration in the projector quality and fire. Do not use flammable solvents (benzene, thinner, etc.

) and flammable aerosols near the projector. Flammable substances may ignite causing fire or breakdown because the temperature inside the projector rises very high while the lamp is illuminating. Never remove the cabinet. This projector contains high voltage circuitry. An inadvertent contact may result in an electric shock. Except as specifically explained in User Manual, do not attempt to service this product by yourself. Please contact your dealer when you want to fix, adjust, or inspect the projector. Do not use the projector with condensation on it. It can lead to breakdown or other failure. Place of installation For safety's sake, do not use the projector at any place subjected to high temperature and high humidity.

Please maintain an operating temperature, humidity, LIANCE NOTICE OF INDUSTRY CANADA This Class B digital apparatus complies with Canadian ICES-003. EN-5 Overview 11 3 12 4 1 2 3 4 5 6 7 8 9 10 11 FOCUS ring ZOOM ring Control panel Air inlet grille Remote control sensor (Front) Air outlet grille Terminal board Speaker Adjustment feet Lock bar Lamp cover Caution: 9 5 8 10 6 Do not replace the lamp immediately after using the projector because the lamp would be extremely hot and it may cause burns. 7 Control panel 3 2 1 4 1 2 Power button SOURCE button Each press of this button enables the input source to switch in the following order: COMPUTER 1, COMPUTER 2, HDMI, VIDEO, and S-VIDEO. STATUS indicator POWER indicator 3 4 Terminal board 7 5 13 8 14 2 3 10 12 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Power jack COMPUTER IN terminal (1, 2) (Mini D-SUB 15-pin) MONITOR OUT terminal (Mini D-SUB 15-pin) Remote control sensor (Rear) AUDIO IN-1 terminal (Mini jack) AUDIO IN-2 terminal (Mini jack) AUDIO OUT terminal (Mini jack) S-VIDEO terminal VIDEO terminal SERIAL (RS-232C) terminal (Mini DIN) Kensington Lock LAN terminal (RJ-45) AUDIO IN-3 terminals (L/R) HDMI terminal (HDMI 19-pin) 6 19 11 Kensington Lock This projector has a Kensington Security Standard connector for use with Kensington MicroSaver Security System. Refer to the information that came with the Kensington System for instructions on how to use it to secure the projector.

Please contact Kensington Technology Group below. Kensington Technology Group 2855 Campus Drive San Mateo, CA 94403, U.S.A. Phone: +1-(650)572-2700 Fax: +1-(650)572-9675 EN-6 Overview (continued) Bottom side 1 1 Adjustment feet Remote control 1 ON STANDBY ON button MAGNIFY button VOLUME UP, DOWN buttons KEYSTONE button MENU button Two types of MENU display are equipped.

QUICK MENU appears on the screen when pressing MENU button. In addition, DETAIL MENU appears when selecting DETAIL MENU in this MENU and pressing ENTER button. ENTER button AV (Audio/Video) MUTE button OFF button ASPECT button 2 1 MAGNIFY ASPECT 8 9 UP VOL KEYSTONE PAGE DOWN 3 4 5 2 3 4 MENU AUTO POSITION This model does not have these functions. 5 6 AV MUTE ENTER 10 11 FREEZE 6 7 8 9 7 VIEWER 1 COMPUTER VIDEO 12 13 S-VIDEO 10 AUTO POSITION button 11 Direction buttons 12 FREEZE button 13 VIDEO, S-VIDEO buttons 14 COMPUTER (1, 2) buttons 15 HDMI button · The UP and DOWN buttons are used in the KEYSTONE adjustment in addition to the volume control. This model does not have these functions. UNPLUG 2 14 15 WIRELESS DVI HDMI EN-7 ENGLISH Remote control Battery installation Use two (AA, R6) size batteries. 1. Remove the back cover of the remote control by pushing the battery compartment door in the direction of the arrow. 2. Load the batteries making sure that they are positioned correctly (+ to +, and - to -).

· Load the batteries from - spring side, and make sure to set them tightly. 3. Replace the back cover. Caution: · · · · · Use of a battery of wrong type may cause explosion. Only Carbon-Zinc or Alkaline-Manganese Dioxide type batteries should be used. Dispose of used batteries according to your local regulations. Batteries may explode if misused. Do not recharge, disassemble, or dispose of in fire. Be sure to handle the battery according to the instructions.

Load the battery with its positive (+) and negative (-) sides correctly oriented as indicated on the remote control.

Keep batteries out of reach of children and pets. Remove the battery, if the remote control is not used for a long time. Do not combine a new battery with an old one. If the solution of batteries comes in contact with your skin or clothes, rinse with water. If the solution comes in contact with your eyes, rinse them with water and then consult your doctor.

Operation range (of the remote control) The maximum operation distance of the remote control is about 10 m (or about 32 feet) when the remote control is pointed at the remote control sensor of the projector. When the remote control is pointed to the screen, the distance from the remote control to the projector via the screen should be 5 m or less. However, the operation distance varies depending on the type of the screen used. Reception angle (vertical) Reception angle (horizontal) Reception angle (vertical), ceiling mount Important: · Do not expose the remote control sensor to direct sunlight or fluorescent. Keep a

distance at least 2 m (6.5 feet) between the remote control sensor and the fluorescent light to ensure correct operation of the remote control. Inverted fluorescent light, if located near the projector, may interfere the remote control. When you use the remote control too close to the remote control sensor, the remote control may not work correctly.



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· EN-8 Installation Layout of the projector Front projection W L : Between the screen and the front edge of the projector Hd : Height of the projected image
Screen Diagonal size inch 40 60 80 100 150 200 250 300 cm 102 152 203 254 381 508 635 762 Width : W inch 32 48 64 80 120 160 200 240 cm 81 122 163
203 305 406 508 610 Height : H inch 24 36 48 60 90 120 150 180 cm 61 91 122 152 229 305 381 457 inch 51 77 103 129 195 260 326 391 Distance from the
screen : L Shortest (WIDE) m 1.3 2.0 2.6 3.3 4.9 6.6 8.

3 9.9 Longest (TELE) inch 62 94 125 157 236 315 394 m 1.6 2.4 3.2 4.0 6.0 8.0 10.0 inch 3.6 5.
4 7.2 9.0 13.4 17.9 22.

4 26.9 Hd cm 9 14 18 23 34 45 57 68 · The above figures are approximate and may be slightly different from the actual measurements. Front projection,
ceiling mounting For ceiling mounting, you need the ceiling mount kit designed for this projector. Ask a specialist for installation. For details, consult your
dealer.

· The warranty on this projector does not cover any damage caused by use of any non-recommended ceiling mount kit or installation of the ceiling mount kit
in an improper location. Rear projection Ask a specialist for installation. For details, consult your dealer. · For rear projection, set IMAGE REVERSE in the
INSTALLATION menu to MIRROR. See page 21. Placing the projector directly on a carpet impairs ventilation by the fans, causing damage or failure. Put a
hard board under the projector to facilitate ventilation. Place the projector at least 50 cm (or 20 inch) away from the wall to prevent the air inlet grille and
the air outlet grilles that emit hot air from being blocked. Do not use the projector in the following locations and manners, which may cause fire or electric
shock. · In a dusty or humid place.

· In a sideways or upside-down position. · Near a heater. · In an oily, smoky, or damp place such as a kitchen. · In direct sunlight. · Where the temperature
rises high, such as in a closed car. · Where the temperature is lower than +41°F (or +5°C) or higher than +95°F (or +35°C). Do not apply force to the lens,
because the lens may be damaged. Be sure to use this projector at an altitude of less than 1500 meters. Caution: · When using the projector mounted on the
ceiling, set IMAGE REVERSE in the INSTALLATION menu to MIRROR INVERT. See page 21.

When the projector is mounted on the ceiling, images may appear darker than those projected in the case of tabletop mounting. This isn't a product
malfunction. · · · Ceiling Mount Installation If you wish to install the projector using a ceiling mount, please use the screw holes as the illustration shows.

Important: · · Screws are not included. Please obtain the appropriate screws for your type of ceiling.

(M4 diameter) It is recommended that you keep a reasonable space between the bracket and the projector to allow for proper heat distribution. · · Important:
EN-9 ENGLISH Image size varies depending on the distance between the screen and the projector. Basic connections This projector can be connected with
various devices such as a VCR, video camera, videodisc player, and personal computer that have analog RGB output connectors. Important: · · · Make sure
that the connected device is turned off before starting connection. Plug in the power cords of the projector and the connected devices firmly.

When unplugging, hold and pull the plug. Do not pull the cord. When the projector and the connected devices are located too close to each other, the
projected image may be affected by their interference. See the owner's guide of each device for details about its connections. Projector + AV device S-VIDEO
IN (option) VIDEO IN (option) AUDIO IN-3L (option) AUDIO IN-3R to audio output (L) to audio output (R) VCR, etc. to Video output to S-video output

Important: · · Match the colors of the video and audio plugs on the Audio cable with those of the terminals. Speaker output is mono. Projector + DVD player
or HDTV decoder Some DVD players have an output connector for 3-line fitting (Y, CB, CR). When connecting such DVD player with this projector, use the

COMPUTER IN terminal. Audio cable (option) DVD player or HDTV decoder to audio output BNC - RCA connector (option) No connection B R
COMPUTER IN Mini D-SUB 15-pin - BNC conversion cable (option) Important: · · · · The terminal's names Y, PB, and PR are given as examples of when a
HDTV decoder is connected.

The terminal's names vary depending on the connected devices. Use a Mini D-SUB 15-pin - BNC conversion cable for connection. Image may not be
projected correctly with some DVD players. When connecting a HDTV decoder having RGB output terminals, set COMPUTER INPUT to RGB in the SIGNAL
menu. EN-10 Basic connections (continued) Connection (for video equipment having an HDMI terminal) Equipment having an HDMI terminal to HDMI
terminal HDMI IN HDMI (with HDMI logo) cable (option) Important: · · · · Use a commercially available HDMI (with HDMI logo) cable. You don't have to
connect any cable for audio input. You can input video and audio using an HDMI cable only. When HDMI audio isn't output, it may be output by turning off
the power of the video equipment with the projector and the video equipment connected to each other and then turning back on the power. Some cables may
not be connected correctly depending on the size and shape of their connectors. EN-11 ENGLISH Basic connections (continued) Projector + Computer For
computer with Mini D-SUB RGB cable for PC Necessary when outputting to both a PC monitor and the projector.

COMPUTER IN RGB cable for PC (option) MONITOR OUT Computer to monitor port AUDIO OUT AUDIO IN-1 or IN-2 Audio cable (option) PC audio
cable (option) to PC audio output For analog connection: 1. 2. Connect one end of the supplied RGB cable to the COMPUTER IN terminal (1, 2) of the
projector. Connect the other end of the RGB cable to the monitor port of the computer. For monitor connection: Connect the RGB cable from the monitor to
the MONITOR OUT terminal of the projector.

· Images may not be displayed correctly depending on the type of the input signal. See the instruction manual of the monitor. · Signals are coming from the
COMPUTER IN terminal (1 or 2) of the projector. · MONITOR OUT is not output during the STANDBY state. · When signals are coming from both
COMPUTER IN terminals (1, 2), images are projected from the terminal (1 or 2) currently or last selected in the projector's menu.

Important: · · · · · When you use a longer RGB cable instead of the provided cable, the image may not be projected correctly.



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Some computers require additional connectors or analog RGB output adapters to be connected with this projector. Contact your dealer for further information. This projector uses stereo mini jack for its audio input. Check the type of the audio output terminal of the connected computer and prepare a proper cable for connection. Some computers don't have the audio output terminal. Speaker output is mono. When the audio cable is connected to the AUDIO OUT terminal, the speaker output is muted. If your Macintosh has no video port, a monitor output adapter is required. Contact your dealer for further information.

Some Macintoshes require a MAC adapter for the RGB cable for connection with this projector. Contact your dealer for further information. For Macintosh About DDC The COMPUTER/COMPONENT VIDEO IN-1 terminal of this projector complies with the DDC 1/2B standard. When a computer supporting this standard is connected to this terminal, the computer will automatically load the information from this projector and prepare for output of appropriate images.

· After connecting a computer supporting this standard to this terminal, plug the power cord of the projector in the wall outlet first, and then boot up the computer. EN-12 Preparation Preparation for projection 1. 2. 3. · Attach the provided power cord to the projector. Plug the power cord in the wall outlet. Remove the lens cap. Do not look into the lens directly when the projector is on. The lens cap is for protecting the lens. If you leave the lens cap on the lens with the projector turned on, it may be deformed because of heat build-up. Remove the lens cap when you turn on the projector.

One of power cords for the U.S., Europe and U.K. is provided appropriately.

This projector uses the power plug of three-pin grounding type. Do not remove the grounding pin from the power plug. If the power plug doesn't fit your wall outlet, ask an electrician to change the wall outlet. In case that the power cord for the U.S is provided with this projector, never connect this cord to any outlet or power supply using other voltages or frequencies than rated. If you want to use a power supply using other voltage than rated, prepare an appropriate power cord separately. Use 100-240 V AC 50/60 Hz to prevent fire or electric shock. Do not place any objects on the power cord or do not place the projector near heat sources to prevent damage to the power cord. If the power cord should be damaged, contact your dealer for replacement because it may cause fire or electric shock. Do not modify or alter the power cord.

If the power cord is modified or altered, it may cause fire or electric shock. Plug in the power cord firmly. When unplugging, hold and pull the power plug, not the power cord. Do not plug in or out the power cord with your hand wet. It may cause electric shock. Important: ENGLISH · Install the screen on a flat wall at 90 degrees to the floor. Slanting the projector more than $\pm 10^\circ$ (right and left) or $\pm 15^\circ$ (front and rear) may cause trouble or explosion of the lamp. You can tilt the projector up to 8 degrees using the adjustment feet only. Images may not be projected in a shape of a regular rectangle or with its aspect ratio 4:3, depending on the installation conditions of the projector and the screen. When AUTO KEYSTONE in the INSTALLATION menu is set to ON, this projector automatically corrects vertical keystone distortion.

For fine adjustment, press the KEYSTONE button on the remote control to display KEYSTONE, and adjust the image by pressing the or button (or VOLUME or button) on the remote control. Warning: · · · In the following cases: · · · Press the button. Press the button. · · · Caution: · · · The automatic keystone adjustment may not be carried out correctly because of the ambient temperature and the installation conditions of the projector and the screen. In such cases, correct the keystone manually.

When the projector is projecting images where acceleration is present, such as in a vehicle and aircraft, the automatic keystone adjustment may not function correctly. In such a case, set AUTO KEYSTONE in the INSTALLATION menu to OFF and correct the keystone manually. You can correct the vertical keystones. However, their adjustment ranges are limited in such correction. When the keystone adjustment is carried out, the adjustment value is indicated.

Note that this value doesn't mean a projection angle. The allowable range of the adjustment value in the keystone adjustment varies depending on the installation conditions. When the keystone adjustment takes effect, the resolution decreases. In addition, stripes may appear or straight lines may bend in images with complicated patterns. They are not due to product malfunctions. Noise may appear on the screen during the keystone adjustment because of the type of the video signal being projected and the setting values of the keystone adjustment. In such cases, set the keystone adjustment values in the range where the image is displayed without noise. When the keystone adjustment is carried out, the image may not be displayed correctly because of the type of input signal. Adjustment of the projection angle For the best projection, project images on a flat screen installed at 90 degrees to the floor. If necessary, tilt the projector using the two adjustment feet on the bottom of the projector.

Important: · Using the adjustment feet (front) 1. 2. Tilt up the projector to the appropriate angle. Rotate the adjustment feet (front) for fine adjustment. · · · EN-13 Basic operation ON STANDBY 3 MAGNIFY ASPECT 1, 2 4 6 FOCUS UP VOL KEYSTONE PAGE DOWN ZOOM MENU AUTO POSITION ENTER AV MUTE FREEZE VIEWER 1 COMPUTER VIDEO UNPLUG 2 S-VIDEO 5 WIRELESS DVI HDMI 5 3, 1, 2 Power-on 1. 2. Turn on the device connected to the projector first. Plug the power cord in the wall outlet. · The POWER indicator lights up. · If the power cord is unplugged from the wall outlet before the projector is cooled down completely after use, the fans may start rotating when the power cord is plugged in next time and the POWER button may not function.

In this case, wait for the fans to stop and press the POWER button to light the indicator. Press the POWER button on the control panel or the ON button on the remote control. · It may take about one minute for the lamp to light up. · The lamp occasionally fails to light up. Wait a few minutes and try to light the lamp again.

· After the POWER button is pressed, the image may flicker before the lamp becomes stable. This is not a product malfunction. · Regardless of the setting of LAMP MODE in the INSTALLATION menu, the STANDARD lamp mode is activated by default whenever the projector is turned on.



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The LAMP MODE is set to either STANDARD or LOW depending on the setting last selected, and you cannot switch the LAMP MODE in about one minute after the lamp is on. Indicator Condition Stand-by When the lamp is on.

STATUS Green POWER Red Green · 3. Images may not be projected with good quality in an extremely hot or cold environment. (This is not a product malfunction.) · In order to ensure the safety in case of trouble with the projector, use an electrical outlet having an earth leakage breaker to supply the power to the projector. If you do not have such outlet, ask your dealer to install it. 4. Adjust the focus by turning the focus ring. 5. Choose your desired external input source using the SOURCE or COMPUTER or VIDEO or HDMI button. · Each press of SOURCE button of the Control Panel enables the input source to switch in the following order: COMPUTER 1, COMPUTER 2, HDMI, VIDEO, and S-VIDEO.

· When pressing COMPUTER (1 or 2), HDMI, VIDEO, or SVIDEO button on the remote control, the input source switches directly as the button pressed. · The projector automatically selects the appropriate signal format. The selected signal format is displayed on the screen. · The SOURCE, COMPUTER, VIDEO and HDMI buttons don't function while the menu is being displayed. · When COMPUTER is chosen as the source, images supplied from the computer may flicker. Press the or button on the remote control to reduce flicker, if it occurs. · To avoid permanently imprinting a fixed image onto your projector, please do not display the same stationary images for long period. 6. Adjust the image size by turning the zoom ring. · If necessary, adjust the focus and zoom again.

When fine streaks are seen on projected images This is due to interference with the screen surface and is not a malfunction. Replace the screen or displace the focus a little. Important: · If the lamp exceptionally turned off due to the power interruption or voltage drop, it can happen that the lamp does not turn on even if you switch again the power supply on. In that case, please pull the electric cord out of the consent and put it again in the consent about 10 minutes later. Do not cover the lens with the lens cap while the lamp is on.

The projector starts warming up when the POWER button is pressed. During the warm-up process, images may appear dark and no commands are accepted. By blinking red, the STATUS indicator indicates that the lamp should be replaced soon. Replace the lamp when the STATUS indicator blinks red. (See page 35 and 38.)

EN-14 Basic operation (continued) Power-off Use the following procedure to turn off the projector. The lamp may deteriorate if the projector is powered off and on repeatedly within 30 minutes after the lamp is lighted. 1. Press the POWER button on the control panel or the STANDBY button on the remote control. · The message "POWER OFF? YES : PRESS AGAIN" appears on the screen. · To cancel, press any button except the POWER button. (Some buttons on the remote control don't function for cancel.) 2. Press the POWER button on the control panel or the STANDBY button on the remote control within 10 seconds again. · The lamp will go out and the STATUS indicator will start blinking.

· Though the lamp goes out at this second press of the POWER button (or STANDBY button), the air outlet fans continue operating for one minute to cool down the lamp. The STATUS indicator will stop blinking. · After stopping the air outlet fans, if the temperature inside the set is still high, the temperature sensor detects it and then the air outlet fans may start again. 3. Unplug the power cord. · The POWER indicator will go out. · If the power cord should be unplugged accidentally while either the air inlet fan or the air outlet fans are operating or the lamp is on, allow the projector to cool down for 10 minutes with the power off. To light the lamp again, press the POWER button (or ON button). If the lamp doesn't light up immediately, repeat pressing the POWER button (or ON button) two or three times. If it should still fail to light up, replace the lamp.

Volume from the speaker ENGLISH EN-15 Press the VOLUME or button to change the volume from the speaker. The volume control bar will appear on the screen. VOLUME 10 · · · The volume control bar will disappear about 10 seconds after the VOLUME button is released. The VOLUME buttons don't function while the menu selection bar or the menu is being displayed. When a high-level audio signal, such as a DVD audio signal, is supplied to the AUDIO IN terminal, the output from the speaker may be distorted.

AV mute The video and audio signals are temporarily muted when the AV MUTE button is pressed. To cancel muting, press the AV MUTE button again. Setting the aspect ratio You can change the aspect ratio of the input video signal (or the ratio of width to height of the image). Change the setting according to the type of the input video signal. How to change the settings: With the remote control: 1.

Press the ASPECT button. · Every time the ASPECT button is pressed, the aspect mode changes from NORMAL to 16:9, to FULL, and back to NORMAL.

Notice: · When storing the projector in the carrying case, the lens should face up. With the FEATURE menu: (See page 22 for menu setting.) 1. Display the FEATURE menu. 2. Select ASPECT by pressing the or button. 3. Select your desired aspect ratio by pressing the or button.

When 16:9 is selected. 4. Press the ENTER button. 5. Select your desired position (CENTER, UPPER or LOWER) by pressing the or button. Instant Shut Down You can turn off this projector just by unplugging the power cord without pressing the POWER button. · Don't shut down the projector while the STATUS indicator is blinking after the lamp lights up because the lamp's life may be shortened. · Don't turn the projector back on right after shutting it down because the lamp's life may be shortened. (Wait about 10 minutes before turning the projector back on.) · Before shutting down the projector, be sure to close the menu screen.

If you shut down the projector without closing the menu, the setting data of the menu may not be saved. · If you shut down the projector while controlling the projector using the network function, the application software such as ProjectorView may fail. For details, see "User Manual of LAN Control Utility" contained in the CD-ROM. To cancel the menu: 6. Press the MENU button.

opt. FEATURE ASPECT NORMAL Important: · When a 16:9 image is kept displayed for a long time before displaying 4:3 image, the afterimages of the black bars may appear on the 4:3 image screen. Consult your dealer in this case. After using the projector, wait one minute for the air outlet fans to stop in normal use. Then unplug the power cord from the wall outlet.



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The lamp can't be lit again for one minute after turned off for safety purpose. It will take another one minute for the STATUS indicator to go out. If you want to turn on the projector again, wait until the indicator goes out, and then press the POWER button. The air outlet fans rotate faster as the temperature around the projector rises. When the temperature around the projector rises high, the sign "TEMPERATURE!!" blinks red on the screen. If the temperature stays high, the lamp will go out automatically. Do not display a still picture for a long time because the afterimages may persist on the screen. AUTO POSITION button When the image isn't projected in the right position with COMPUTER selected as the input source, follow the procedure below. 1. Project a bright image such as the "Recycle Bin" window on the full screen.

2. If the screen saver is running, turn it off. 3. Press the AUTO POSITION button. · If the image is still not in the right position, adjust the image position using the SIGNAL menu. See page 23. Caution: · · · Important: · Basic operation (continued) Wall Screen This function is to reproduce natural color tones when images are projected directly onto a screen or wall surface. You can select from BEIGE, LIGHT BLUE, LIGHT GREEN, PINK, BLACK BOARD, WHITE BOARD, and OFF, to match the color of the screen or wall to be used for projection. 1. Display the INSTALLATION menu.

(See page 21 for more details.) opt. INSTALLATION WALL SCREEN LAMP MODE BEIGE STANDARD 2. 3. 4.

Press the or button to select WALL SCREEN. Press the or button to select the color closest to that of the screen on which images are projected. · When the GAMMA mode setting is changed, images may not be displayed correctly. · When OFF or BLACK BOARD/WHITE BOARD is selected, the density cannot be adjusted. · When WHITE BOARD is selected, BrilliantColor™ in the Color Enhancer menu of the Image menu cannot be used.

Additionally, Theater in the Color Enhancer menu of the Image menu has no effect and is automatically canceled when WHITE BOARD is selected. Press the ENTER button. LIGHT BLUE 1 5. Press the color. or button to adjust the density of the selected When connecting to a laptop computer: When this projector is connected to a laptop computer, there may be times when images may not be projected. When it occurs, set the computer so that it can output signals externally. The procedure varies across computers in use. See the instruction manual of your computer. EN-16 Menu operation ENGLISH As one of the two types of MENU display, following QUICK MENU appears on the screen when pressing MENU button on the remote control. In addition, DETAIL MENU (See page 19) appears when selecting DETAIL MENU in this MENU and pressing ENTER button.

· Comparing QUICK MENU with DETAIL MENU, if the contents in those two menus are same each other, the functions in those two menus are same as well. · To close QUICK MENU or DETAIL MENU, press MENU button when MENU is displayed. QUICK MENU * Menus are not displayed when no signal is supplied to the projector. QUICK MENU COLOR ENHANCER CONTRAST BRIGHTNESS COLOR TEMP. AUTO PRESENTATION STANDARD THEATER USER ±30 ±30 STANDARD LOW HIGH USER ±5 STANDARD, LOW NORMAL, 16:9, FULL SHARPNESS *1 LAMP MODE ASPECT USER MENU SELECT USER MENU COLOR TINT CLOSED CAPTION WALL SCREEN STANDBY MODE AUDIO INPUT IMAGE REVERSE MENU POSITION CINEMA MODE WXGA LANGUAGE OK DETAIL MENU INFORMATION LAMP TIME (LOW) INPUT RESOLUTION VERTICAL FREQUENCY HORIZONTAL FREQUENCY SYNC. TYPE *2 *1 Not available with certain signals *2 Not available when the input signal is from the VIDEO IN or S-VIDEO IN terminal. QUICK MENU Basic operation Several settings can be adjusted using the menu. Example : Contrast setting 1. Press the MENU button. 3.

Press the or button to select CONTRAST. 0 CONTRAST 4. Press the or button to adjust the contrast. +10 CONTRAST QUICK MENU 5. 2.

Press the ENTER button (or button). · Exit the menu by pressing the MENU button several times. When the button doesn't function, unplug the power cord from the wall outlet. Wait about 10 minutes, plug the power cord in, and try again. After selecting the items marked with , press the ENTER button.

Important: QUICK MENU COLOR ENHANCER · AUTO EN-17 Menu operation (continued) Menu Options Set the following options provided in the respective menus. 1. QUICK MENU Menu option AUTO COLOR ENHANCER PRESENTATION STANDARD THEATER USER ±30 ±30 4 options ±5 STANDARD Setting Feature description Automatically sets an optimal color balance based on the input signal. Use this setting for most cases. Makes projected images bright and crisp. Makes projected images look natural. Makes projected images soft and smooth. Best suited for movies. Reflected by the value set in IMAGE menu. (See page 25).

) Adjusts the contrast of projected images. (See page 25.) Adjusts the brightness of projected images. (See page 25.) Adjusts the color temperature. You cannot select this setting when WALL SCREEN in the INSTALLATION menu is set to a setting other than OFF. (See page 25.) Adjusts the sharpness of projected images. (See page 25.) Select this setting when you want to view images in a well-lit room.

Select this setting when you want to view images at a moderate light intensity. The operating sound is consequently reduced, and the lamp lifetime becomes longer. · When this mode is switched, projected images may flicker. · If this mode is frequently switched, the lamp may be deteriorated. Automatically sets the aspect ratio in relative to the input signal.

Use this setting for most cases. Selects a desired screen position for anamorphically squeezed or horizontally compressed images stored on DVD disks. Select this setting when you want to project images in the full screen. Displays the menu item selected in SELECT USER MENU. Select the item to display in USER MENU.

Moves to DETAIL MENU. QUICK MENU COLOR ENHANCER CONTRAST BRIGHTNESS COLOR TEMP. SHARPNESS LAMP MODE ASPECT USER MENU SELECT USER MENU DETAIL MENU COLOR OK AUTO 0 0 STANDARD 0 STANDARD NORMAL CONTRAST BRIGHTNESS COLOR TEMP. SHARPNESS LAMP MODE LOW NORMAL ASPECT 16:9 FULL USER MENU SELECT USER MENU DETAIL MENU · · · You cannot adjust COLOR TEMP. when WALL SCREEN is set to other than OFF. When COLOR ENHANCER is switched, projected images may be distorted. By default, the LAMP MODE is set to STANDARD. The LAMP MODE is set to either STANDARD or LOW depending on the setting last selected, and you cannot switch the LAMP MODE in about one minute after the lamp is on. 2. @@@@ @@@@ When it reaches 4750 hours, the bar turns red.

@@ Indicates the resolution of the currently projected video signal. @@@@ Indicates the type of the sync signal for the currently projected video signal.



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INFORMATION 0H LAMP TIME (LOW) LAMP TIME (LOW) INPUT RESOLUTION VERTICAL FREQUENCY HORIZONTAL FREQUENCY RGB H V
 COMPUTER2 1024x768 75.04 Hz 60.02 KHz 5wire INPUT RESOLUTION VERTICAL FREQUENCY HORIZONTAL FREQUENCY SYNC. TYPE SYNC.
 TYPE EN-18 Menu operation (continued) DETAIL MENU IMAGE COLOR ENHANCER AUTO PRESENTATION STANDARD THEATER USER GAMMA
 MODE BrilliantColor TM RGB-COLOR RGB-TINT DYNAMIC, NATURAL, DETAIL 0-10 ±10 ±10 CONTRAST BRIGHTNESS COLOR TEMP. ±30 ±30
 STANDARD LOW HIGH USER CONTRAST R CONTRAST G CONTRAST B BRIGHTNESS R BRIGHTNESS G BRIGHTNESS B ±30 ±30 ±30 ±30 ±30 ±30
 COLOR *1 TINT *1 SHARPNESS *1 ADVANCED MENU ±10 ±10 ±5 OK NOISE REDUCTION *1 CTI *1 INPUT LEVEL CLOSED CAPTION *1 1-5 1-5
 1-5 1-5 ON, OFF ON, OFF ±5 OFF, CC1, CC2 INSTALLATION WALL SCREEN LAMP MODE STANDBY MODE AUDIO INPUT AUTO KEYSTONE
 IMAGE REVERSE ADVANCED MENU BEIGE LIGHT BLUE LIGHT GREEN PINK BLACK BOARD WHITE BOARD OFF STANDARD, LOW STANDARD,
 LOW AUTO, AUDIO 1, AUDIO 2, AUDIO 3, MIX ON, OFF OFF, MIRROR, INVERT, MIRROR INVERT OK *6 ±10 AUTO POWER ON AUTO POWER
 OFF IMAGE CAPTURE SPLASH SCREEN BACK COLOR AV MUTE MODE LAMP TIME RESET ON, OFF OFF, 5min, 10min, 15min, 30min, 60min GO
 ON, OFF BLUE, BLACK, IMAGE BLACK, IMAGE OK FEATURE ASPECT PASSWORD FUNCTION MENU POSITION CINEMA MODE *3 VIDEO
 SIGNAL *5 WXGA *2 SETUP *1 LANGUAGE RESET ALL SIGNAL HORIZ. POSITION VERT. POSITION FINE SYNC.

*1 *2 TRACKING *2 COMPUTER INPUT *2 OVER SCAN HOLD *2 NORMAL 16:9 CENTER, UPPER, LOWER FULL DISPLAY INPUT, MENU ACCESS
 , SPLASH ID SCREEN LOCK UNLOCK 1 (upper left), 2 (lower right) AUTO, OFF AUTO, NTSC, PAL, SECAM, 4.43NTSC, PAL-M, PAL-N, PAL-60 OFF,
 AUTO, 1280 x 768, 1280 x 768RB, 1360 x 768, 1366 x 768 AUTO, OFF, 3.75%, 7.5% OK 0-999 0-999 0-31 0-2800 AUTO, RGB, YCBCR/YBPBR 100-90%
 OFF ON OK *4 *4 *4 *4 BEGIN END CLAMP POSITION *2 CLAMP WIDTH *2 VERT. SYNC LPF *1 *2 SHUTTER (U) SHUTTER (L) SHUTTER (LS)
 SHUTTER (RS) OK OK , SVENSKA, POLSKI USER 0-99 0-99 1-255 1-63 AUTO, OFF ON, OFF 0-20 0-20 0-20 0-20 NETWORK PROJECTOR NAME
 NETWORK PASSWORD IP CONFIG *****.

... SET OK OK DHCP IP ADDRESS SUBNET MASK DEFAULT GATEWAY MAC ADDRESS ON , OFF ***.***.***.
 , SET ***..***.***, SET ***.***.***.***, SET xx-xx-xx-xx-xx-xx PJLink CERTIFICATION NETWORK RESET INFORMATION LAMP TIME (LOW)
 INPUT RESOLUTION VERTICAL FREQUENCY HORIZONTAL FREQUENCY SYNC. TYPE *2 ON , OFF OK *1 Not available with certain signals *2 Not
 available when the input signal is from the VIDEO IN or S-VIDEO IN terminal. *3 Available only when the input signal is TV60, TV50, 480i, or 576i. *4 The
 range that can be specified varies across input signals.

*5 Available only when the input signal is from the VIDEO IN or S-VIDEO IN terminal. *6 AUDIO 1, AUDIO 2, AUDIO 3, and MIX cannot be selected when
 the Input Source is HDMI input. EN-19 ENGLISH * Menus are not displayed when no signal is supplied to the projector. Menu operation (continued) Basic
 operation Several settings can be adjusted using the menu. Example : Auto power off time setting 1. Press the MENU button. 2. Select the DETAIL MENU and
 press the ENTER button (or button). opt. 5.

Press the or button to select AUTO POWER OFF. OFF ON AUTO POWER ON AUTO POWER OFF 6. Press the or button to adjust the auto power off time.
 OFF 30min IMAGE 3. Press the or opt.
 AUTO POWER ON AUTO POWER OFF button to select INSTALLATION. 7. ·Exit the menu by pressing the MENU button several times. When the button
 doesn't function, unplug the power cord from the wall outlet. Wait about 10 minutes, plug the power cord in, and try again.

After selecting the items marked with , press the ENTER button. Important: INSTALLATION ·4. Press the ENTER button (or opt. button). INSTALLATION
 WALL SCREEN BEIGE Menu Options Set the following options provided in the respective menus. 1. IMAGE menu Menu option AUTO COLOR ENHANCER
 PRESENTATION STANDARD THEATER USER ±30 ±30 4 options Setting Feature description Automatically sets an optimal color balance based on the
 input signal. Use this setting for most cases. Makes projected images bright and crisp. Makes projected images look natural.

Makes projected images soft and smooth. Best suited for movies. Adjusts the gamma curve, color intensity, or balance. (See page 25.) Adjusts the contrast of
 projected images. (See page 25.) Adjusts the brightness of projected images. (See page 25.) Adjusts the color temperature. You cannot select this setting when
 WALL SCREEN in the INSTALLATION menu is set to a setting other than OFF.
 (See page 25.) Adjusts the color tone of projected images. (See page 25.) You cannot select this setting when the COMPUTER 1 or COMPUTER 2 or HDMI is
 selected as the input source. Adjusts the color tint of projected images.
 (See page 25.) You can select this setting only when NTSC is selected as the input signal. Adjusts the sharpness of projected images. (See page 25.) Reduces
 noise of projected images when the input signal is noisy.

Corrects smeared color borders. Adjusts the input level of analog video signals. The input level of the video signal varies across devices to which the
 projector is connected. A high input level causes projected images to appear solid white, and a low input level causes projected images to appear dark. Does
 not display captions. Displays captions. opt. IMAGE COLOR ENHANCER CONTRAST BRIGHTNESS COLOR TEMP. COLOR TINT SHARPNESS
 ADVANCED MENU AUTO 0 0 STANDARD 0 0 0 OK CONTRAST BRIGHTNESS COLOR TEMP. opt.

COLOR ±10 ±10 ±5 OK ON/OFF ON/OFF IMAGE ADVANCED MENU NOISE REDUCTION CTI INPUT LEVEL CLOSED CAPTION ON ON 0 OFF
 TINT SHARPNESS ADVANCED MENU NOISE REDUCTION CTI IMAGE ADVANCED menu INPUT LEVEL ±5 CLOSED CAPTION OFF CC1/CC2
 · You cannot adjust TINT when the TV50 (PAL, SECAM) signal is inputted. You cannot adjust COLOR TEMP. when WALL SCREEN is set to other than OFF.
 When COMPUTER 1 or COMPUTER 2 or HDMI is selected, TINT do not work. When COLOR ENHANCER is switched, projected images may be distorted.

Captions are not displayed while information about the menu, volume setting, or input signal selection is being displayed on the screen. The closed caption
 function displays text information included in the NTSC signal, which is mainly used for TV broadcasting in North America. EN-20 Menu operation
 (continued) 2. INSTALLATION menu Menu option Setting OFF/BEIGE / LIGHT BLUE / LIGHT GREEN / PINK /BLACK BOARD/WHITE BOARD
 STANDARD Feature description Selects a desired setting based on the color of the screen or wall on which images are projected. (See page 16.
) When selecting a setting other than BLACK BOARD/WHITE BOARD, you can finetune the color tone to the desired level on the 1 to 5 scale.



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Select this setting when you want to view images in a well-lit room. Select this setting when you want to view images at a moderate light intensity. The operating sound is consequently reduced, and the lamp lifetime becomes longer. · When this mode is switched, projected images may flicker. · If this mode is frequently switched, the lamp may be deteriorated. LAN can be activated in STANDARD MODE. Power consumption can be lowered when selecting LOW. However, LAN and MONITOR OUT cannot be activated. If AUTO is selected, selects AUDIO 1 when the input source is COMPUTER 1, selects AUDIO 2 when the input source is COMPUTER 2, selects AUDIO 3 when the input source is VIDEO/SVIDEO, selects HDMI when the input source is HDMI.

Select the audio input. Selects MIX signal of AUDIO 1 and AUDIO 2. You can change the . balance of AUDIO 1/AUDIO 2 using MIX Select Auto Keystone function. Select this setting when you want to view images from the front with the projector set on the floor. Select this setting when you want to view images from behind the screen with the projector set on the floor. Select this setting when you want to view images from behind the screen with the projector set at the ceiling. Select this setting when you want to view images from the front with the projector set at the ceiling. When this mode is set to ON, the lamp is automatically lit when the power cord is plugged in the wall outlet. Select ON when you set the projector at the ceiling.

· When the lamp is off, the projector is in standby. Use the remote control to turn on the lamp. Selects a desired timer setting until the projector enters the standby mode when there is no signal input from the source. Use to capture the screen for the splash screen. (See page 30.) Select ON to display the splash screen when the projector is powered on. Selects the background color that is displayed when there is no signal input from the source. Use to choose the background, either BLACK, or IMAGE, which will be displayed when the AV MUTE button is pressed. When IMAGE is chosen, the splash screen will be displayed. Resets LAMP TIME.

opt. WALL SCREEN INSTALLATION WALL SCREEN LAMP MODE STANDBY MODE AUDIO INPUT AUTO KEYSTONE IMAGE REVERSE ADVANCED MENU BEIGE STANDARD STANDARD AUTO OFF OFF OK LAMP MODE LOW opt. STANDARD STANDBY MODE LOW INSTALLATION ADVANCED MENU AUTO POWER ON AUTO POWER OFF IMAGE CAPTURE ON OFF GO ON BLUE BLACK OK AUTO AUDIO INPUT AUDIO 1/AUDIO 2/AUDIO 3 MIX AUTO KEYSTONE ON/OFF OFF MIRROR IMAGE REVERSE INVERT MIRROR INVERT ADVANCED MENU OK SPLASH SCREEN BACK COLOR AV MUTE MODE LAMP TIME RESET INSTALLATION ADVANCED menu AUTO POWER ON ON/OFF AUTO POWER OFF IMAGE CAPTURE SPLASH SCREEN BACK COLOR OFF/5-60 min GO ON/OFF BLUE/BLACK/IMAGE AV MUTE MODE LAMP TIME RESET BLACK/IMAGE OK · · By default, the LAMP MODE is set to STANDARD. The LAMP MODE is set to either STANDARD or LOW depending on the setting last selected, and you cannot switch the LAMP MODE in about one minute after the lamp is on. In AUDIO INPUT, HDMI audio is selected when the Input Source is HDMI input.

The audio of AUDIO 1, AUDIO 2, AUDIO 3, and MIX cannot be selected. EN-21 ENGLISH Menu operation (continued) 3. FEATURE menu Menu option Setting NORMAL ASPECT Feature description Automatically sets the aspect ratio in relative to the input signal. Use this setting for most cases. Selects a desired screen position for anamorphically squeezed or horizontally compressed images stored on DVD disks.

You can select from CENTER, UPPER, and LOWER by pressing the ENTER button. Select this setting when you want to project images in the full screen. Use this setting to activate or deactivate the password lock. Use this setting to change the position of the menu on the screen. Select Auto to automatically activate the film mode when the input video signal is a video signal from a film. Select Auto to automatically set the appropriate video format in relative to the input signal. If projected images aren't displayed correctly, select a desired video format manually. Select the appropriate format when the input signal is a WXGA video signal and the "AUTO" mode does not display images properly. Select "OFF" when the input signal is other than a WXGA video signal. Select this setting to automatically change the SETUP mode.

Select this setting to increase the density of black. Use this setting when images are dark. Select this setting to lower the density of black. · When 7.5% is set, the brightness is decreased by the setup cancel function for the U.S. Selects a desired language for the menu. Resets all menu settings except for PASSWORD FUNCTION and LANGUAGE to the default. opt. FEATURE ASPECT PASSWORD FUNCTION MENU POSITION CINEMA MODE ? WXGA NORMAL DISPLAY INPUT 1.

AUTO AUTO AUTO AUTO English OK 16:9 FULL PASSWORD FUNCTION MENU POSITION CINEMA MODE VIDEO SIGNAL WXGA SETUP 2 options AUTO/OFF Aè LANGUAGE RESET ALL VIDEO SIGNAL 8 options WXGA OFF/AUTO/1280 x 768/ 1280 x 768RB/ 1360 x 768/ 1366 x 768 AUTO OFF SETUP 3.75%/7.5% LANGUAGE RESET ALL 12 languages OK · You can select CINEMA MODE only when the input signal is a TV60, TV50, 480i, or 576i video signal. EN-22 Menu operation (continued) 4. SINGAL menu Menu option HORIZ.

POSITION VERT. POSITION FINE SYNC. TRACKING Setting 0-999 0-999 0-31 0-2800 AUTO RGB COMPUTER INPUT YCBCR/YBPBR OVER SCAN HOLD USER CLAMP POSITION CLAMP WIDTH VERT.SYNC LPF SHUTTER(U) SHUTTER(L) SHUTTER(LS) SHUTTER(RS) 100%-90% OFF / ON OK 1-255 1-63 AUTO / OFF ON / OFF 0-20 0-20 0-20 0-20 Use this setting to correct solid white or solid black that appears in projected images. Use this setting to correct solid black that appears in projected images.

Use this setting to adjust projected images when the motion is not smooth. Select AUTO for most cases. Select this setting to enable or disable LPF. Use this setting to adjust projected images when noise appears in the top part of the image. Use this setting to adjust projected images when noise appears in the bottom part of the image. Use this setting to adjust projected images when noise appears in the left half of the image. Use this setting to adjust projected images when noise appears in the right half of the image. ? Feature description Select this setting to adjust the horizontal position of projected images. Select this setting to adjust the vertical position of projected images. Select this setting to eliminate flickering or blurs, if they appear, when you are viewing projected images.

Select this setting to eliminate vertical wide stripes, if they appear, when you are viewing projected images. Automatically sets the appropriate setting. Select this setting when you connect the projector to high definition video equipment having R, G, and B output terminals. Select this setting when you connect the projector to a DVD player or other device having Y, CB, and CR (or Y, PB, and PR) component video output terminals.



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Use this setting to adjust the display area of projected images. Use this setting to adjust projected images when flagging occurs in the upper area of the screen. opt. SIGNAL HORIZ. POSITION VERT. POSITION FINE SYNC.

TRACKING RGB RGB 0 0 0 0 RGB 100% OFF OK COMPUTER INPUT OVER SCAN HOLD USER opt. SIGNAL USER CLAMP POSITION CLAMP WIDTH VERT. SYNC. LPF SHUTTER(U) SHUTTER(L) SHUTTER(LS) SHUTTER(RS) 1 1 AUTO OFF 0 0 0 0 SIGNAL USER menu Horizontal strips may appear in the enlarged projected image, though these conditions are not a malfunction. When you change the value of the horizontal or vertical position drastically, noise may appear.

@@The image may be stationary even when the value is changed. These conditions are not a malfunction. SHUTTER does not work correctly during keystone adjustment. @@@@NETWORK menu Menu option *****.

@@Displays PROJECTOR NAME in blank when PROJECTOR NAME is not set. Set PROJECTOR NAME. Enter up to 15 characters (alphabets or numeric characters). Set the password for Web control or PJLink certification. Select this setting for IP Configuration. @@Displays IP ADDRESS. @@Set IP ADDRESS. When DHCP is set to ON, you cannot change this setting. Displays SUBNET MASK.

@@Set SUBNET MASK. When DHCP is set to ON, you cannot change this setting. Displays DEFAULT GATEWAY. @@Set DEFAULT GATEWAY. When DHCP is set to ON, you cannot change this setting. Displays MAC ADDRESS. Use this setting for PJLink Certification. @@@@When it reaches 4750 hours, the bar turns red. @@Indicates the resolution of the currently projected video signal. @@@@TYPE SYNC.

@@(See page 18 or 20 for the menu options.) 1. Display the QUICK MENU or the IMAGE menu. 2. Select CONTRAST or BRIGHTNESS by pressing the or button.

3. Adjust the selected option by pressing the or button. @@(See page 20 for the menu options.) 1. Select COLOR TEMP. in the IMAGE menu. 2. Press the or button to select USER . 3. Press the ENTER button. 4. Press the or button to select the desired setting. 5. Press the or button to adjust the selected setting. 6.

@@@Every time the button is pressed, the image becomes brighter and more clearly defined. Every time the button is pressed, the image becomes darker and less clearly defined. BRIGHTNESS Every time the button is pressed, the image becomes brighter. button is pressed, the image becomes darker. To cancel the menu: 7. 1. Press the MENU button. Set COLOR TEMP. to USER in the IMAGE menu. To adjust the color (COLOR and TINT): You can adjust the color of the projected image using the menu.

(See page 20 for the menu options.) 1. Display the IMAGE menu. 2. Select COLOR or TINT by pressing the or button. COLOR and TINT is selectable only when the input signal is VIDEO. TINT is selectable only when the NTSC or 4.43NTSC signal is input. 3. Adjust the selected option by pressing the or button.

To enable the stored color temperature: About color temperature There are different variations in white color. Color temperature is a way to show these variations in white. When the temperature is low, white appears reddish. When the temperature rises, white appears bluish. For example, you can change the temperature using the following procedures. To raise the temperature: Increase CONTRAST B (blue) and decrease CONTRAST R (red). To reduce the temperature: Decrease CONTRAST B (blue) and increase CONTRAST R (red). If you set CONTRAST R, G, and B to negative values, the brightness of the image can't retain the original even when you maximize the value of CONTRAST in the QUICK MENU or the IMAGE menu. To cancel the menu: 4. Press the MENU button.

COLOR Use to adjust the color density of the projected image. Every time the button is pressed, the color becomes darker. Every time the button is pressed, the color becomes lighter. TINT Use to adjust the tint of the projected image. Every time the button is pressed, the image appears more greenish. Every time the button is pressed, the image appears more reddish. Color Enhancer You can set user-defined values for the brightness and hue using the menu. (See page 20 for the menu options.) 1. Display the IMAGE menu.

2. Select COLOR ENHANCER by pressing the or button. 3. Select USER by pressing the or button. 4.

Press the ENTER button. 5. Select a setting you want to set. COLOR ENHANCER AUTO To sharpen or soften the projected image (SHARPNESS): You can adjust the sharpness of the projected image using the menu. (See page 18 or 20 for the menu options.)

) 1. Display the QUICK MENU or the IMAGE menu. 2. Select SHARPNESS by pressing the or button. 3. Adjust the selected option by pressing the or button. To cancel the menu: 4. Press the MENU button. COLOR ENHANCER-USER GAMMA MODE BrilliantColor™ DYNAMIC 10 0 0 To adjust the tone of white (COLOR TEMP.): You can select a preset color temperature (white tone) using the menu.

(See page 18 or 20 for the menu options.) 1. Display the QUICK MENU or the IMAGE menu. 2. Select COLOR TEMP. by pressing the or button. 3. Select your desired color temperature by pressing the or button. RGB-COLOR RGB-TINT GAMMA mode Use this setting to set an optimal gamma value and modulation of lamp power. The level of brightness can be adjusted for subdued colors.

DYNAMIC

.....

..Select when viewing crisp, clear images in a brightly lit room or strong daylight. The level of brightness is adjusted to higher levels. NATURAL

.....Select when viewing images of which colors are more faithfully reproduced. The level of brightness and vividness is adjusted to optimal levels. DETAIL ..

.....

.....

....Select when viewing images of which brightness should be kept relatively low, such as movies and music video clips. EN-25 To cancel the menu: 4. Press the MENU button. ENGLISH To adjust the tone of white (To customize the color temperature): Image adjustment (continued) BrilliantColor™ Use this setting to make colors with medium brightness, such as yellow and the skin tone appear natural. Press the button to decrease the value to lessen the effect. Press the button to increase the value to heighten the effect.

(BrilliantColor™ has no effect at value 0.) 6. Select a value by pressing the or button. For more enhanced color reproduction, set BrilliantColor™ to 0. The white area of the color wheel is disabled, and you can reproduce true-color images. To cancel the menu: 4. Press the MENU button. Do not change the settings of the SIGNAL menu for ordinary use. Simple method to adjust the image position To adjust the horizontal position: 1. Align the left edge of the image with the left side of the screen by adjusting HORIZ.

POSITION. Then, align the right edge of the image with the right side of the screen by adjusting TRACKING. Repeat step 1 to complete the adjustment of the horizontal position. Align the upper edge of the image with the upper side of the screen by adjusting VERT.POSITION.

RGB-COLOR Use to adjust the color intensity of the projected image. Every time the button is pressed, the color becomes thicker.



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