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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI HC7800. You'll find the answers to all your questions on the MITSUBISHI HC7800 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI HC7800
User guide MITSUBISHI HC7800
Operating instructions MITSUBISHI HC7800
Instructions for use MITSUBISHI HC7800
Instruction manual MITSUBISHI HC7800



DLP™ PROJECTOR
MODEL
HC7800D
HC7800DW
User Manual



HC7800D
HC7800DW

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



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Manual abstract:

If you use another power supply cord, it may cause interference with radio and television reception. This apparatus must be grounded. DO NOT LOOK DIRECTLY INTO THE LENS WHEN THE PROJECTOR IS IN THE POWER ON MODE. CAUTION The attached power cord is to be used exclusively for this product. Never use it for other products. EN-2 Contents Important safeguards

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Accessories Do not place this projector on an unstable cart, stand, tripod, bracket or table. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer or sold with the projector. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. 10. 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. 11. 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.

12. Overloading Do not overload wall outlets and extension cords as this can result in a fire or electric shock. 13. Objects and liquids Never push objects of any kind through openings of this projector as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector. 14. Servicing Do not attempt to service this projector by yourself. Refer all servicing to qualified service personnel.

15. Damage requiring service Unplug this projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: (a) If the power-supply cord or plug is damaged.

(b) If liquid has been spilled, or objects have fallen into the projector. (c) If the projector does not operate normally after you follow the operating instructions. Adjust only those controls that are covered by the operating instructions. An improper adjustment of other controls may result in damage and may often require extensive work by a qualified technician to restore the projector to its normal operation. (d) If the projector has been exposed to rain or water. (e) If the projector has been dropped or the cabinet has been damaged. (f) If the projector exhibits a distinct change in performance - this indicates a need for service. 16. Replacement parts When replacement parts are required, be sure that the service technician has used replacement parts specified by the manufacturer or parts having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

17. Safety check Upon completion of any service or repair to this projector, ask the service technician to perform safety checks determining that the projector is in a safe operating condition. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn. 9.

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. EN-4 Important safeguards (continued) 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 might cause fire or electric shock. In this case, unplug immediately and contact your dealer. Never remove the cabinet. This projector contains high voltage circuitry. An inadvertent contact may result in an electric shock. Except as specifically explained in the 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 modify this equipment. It can lead to fire or electric shock. Do not keep using the damaged projector.

If the projector is dropped and the cabinet is damaged, unplug the projector and contact your dealer for inspection. It may lead to fire if you keep using the damaged projector. Be sure to unplug the power cord from the wall outlet if the projector is fractured or deformed. Otherwise, it may result in fire or electric shock. Ask your dealer for repair. Do not face the projector lens to the sun. It can lead to fire. Use correct voltage. If you use incorrect voltage, it can lead to fire. Do not place the projector on uneven surface.

Place the projection on a leveled and stable surface only. Please do not place equipment on unstable surfaces. Do not look into the lens when it is operating. It may hurt your eyes. Never let children look into the lens when it is on.

Do not unplug the power cord during operation. It can lead to lamp breakage, fire, electric shock or other trouble. It is best to wait for the fan to turn off before turning the main power off. Do not touch the air outlet grille and bottom plate, which become hot. Do not touch them or put other equipment in front of the air outlet grille.

The air outlet grille and bottom plate, when heated, may cause injury or damage to other equipment. Also, do not set the projector on the desk which is easily affected by heat. Do not look into the air outlet grille when projector is operating. Heat, dust, etc. may blow out of it and hurt your eyes. Do not block the air inlet and outlet grilles. If they are blocked, heat may be generated inside the projector, causing deterioration in the projector quality and fire.



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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.

Do not use the projector with condensation on it. It can lead to breakdown or other failure. Place of installation For safety's sake, refrain from setting the projector at any place subjected to high temperature and high humidity. Please maintain an operating temperature, humidity, and altitude as specified below.

· Operating temperature: between +41°F(+5°C) and +95°F(+35°C) · Operating humidity: between 30% and 90% · Never put any heat-producing device under the projector so that the projector does not overheat. · Do not attach the projector to a place that is unstable or subjected to vibration. ·

Do not install the projector near any equipment that produces a strong magnetic field. Also refrain from installing near the projector any cable carrying a large current. · Place the projector on a solid, vibration-free surface; otherwise it may fall, causing serious injury to a child or adult, and serious damage to the product. · Do not stand the projector; it may fall, causing serious injury and damage to the projector.

· Slanting the projector more than ±10° (right and left) or ±15° (front and rear) may cause trouble or explosion of the lamp. · Do not place the projector near air-conditioning unit, heater, or humidifier to avoid hot or moist air to the exhaust and ventilation hole of the projector. ·

Do not place the projector in the following places. Otherwise, a short circuit, heat generation, or melting of the power cord coating may occur, causing fire, electric shock, product failure, or deformation. · Outdoors or non-air-conditioned place · Place where a gas such as hydrogen sulfide is generated (i.e. hot spring) · Place where there is too much salt such as near the coast Do not place a container containing water or other liquid on the projector. If water spills on or enters the projector terminals 2 COMPUTER/COMPONENT VIDEO IN terminal (mini D-SUB 15-pin) 3 HDMI 1 terminal (HDMI 19-pin) 4 HDMI 2 terminal (HDMI 19-pin) 5 SERIAL terminal (D-SUB 9-pin) · Used for projector control by computer. Contact your dealer for details. 6 LAN terminal 7 3D SYNC terminal 8 TRIGGER terminals · Used for externally connected devices (electric screens) and anamorphic lens.

9 Power jack 9 EN-7 Preparing your projector (continued) Remote control 1 2 3 4 5 6 7 8 9 10 11 12 13 18 19 20 21 22 23 24 14 15 16 17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 STANDBY () button ON (I) button COMPUTER button HDMI 1/2 button PICTURE MODE button F.R.C. button AV MEMORY buttons p, q, t, u buttons MENU button CONTRAST button BRIGHTNESS button GAMMA button BRILLIANT COLOR button 3D MODE button COMPONENT button COLOR MANAGEMENT button ENTER button IRIS button ASPECT button COLOR TEMP. button SHARPNESS button COLOR button AUTO POSITION button ANAMO button Important: ·

When you press any button on the remote control, the buttons on the remote control are lit. Wait approx. 6 seconds after releasing the button to turn them off. Picture quality selection buttons Using the following picture quality selection buttons, you can easily select 16:9 or 4:3, and select CINEMA SCOPE (2.35:1) when the aspect ratio is 2.35:1 (CinemaScope).

When setting SCREEN SIZE to CINEMA SCOPE (2.35:1): · CinemaScope size movies are projected in the full screen. · Set ASPECT in the FEATURE menu to 16:9 when displaying Vista-size images. In this case, they are squeezed horizontally. ·

When ASPECT in the FEATURE menu is set to AUTO and 480i/p, 576i/p, 720p, or 1080i/p signal is input, the part for displaying subtitles is not projected. To display subtitles, reset SCREEN SIZE to 16:9 and adjust the image position using VERTICAL LOCATION in the ADVANCED MENU of the IMAGE menu. (To display the menu on the screen, adjust SHUTTER(U) in the SIGNAL - USER menu to position the menu.) Screen size and projection distance Refer to the following tables to determine the screen size and projection distance. ·

The figures in the tables are approximate and may be slightly different from the actual measurements. · The lens shift height shows distances from the factory default position. Screen Screen height (SH) Screen width (SW) Down side Hd H2 L Up side When the aspect ratio of the screen is 16:9 Screen size (16:9) Diagonal size Height (SH) inch 50 60 70 80 90 100 110 120 150 200 250 300 cm 127 152 178 203 229 254 279 305 381 508 635 762 inch 25 29 34 39 44 49 54 59 74 98 123 147 cm 62 75 87 100 112 125 137 149 187 249 311 374 inch 44 52 61 70 78 87 96 105 131 174 218 261 cm 111 133 155 177 199 221 244 266 332 443 553 664 Projection distance (L) inch 59 71 84 96 108 120 133 145 182 243 304 365 m 1.5 1.8 2.1 2.4 2.7 3.1 3.4 3.7 4.6 6.

2 2.7 7.9 3 inch 89 107 125 144 162 180 198 216 271 362 m 2.3 2.7 3.2 3.6 4.1 4.6 5.0 5.

5 6.9 9.2 - H1 Width (SW) Shortest (Wide) Longest (Tele) Hd inch 8 10 12 13 15 16 18 20 25 33 41 49 cm 21 25 29 34 38 42 46 50 63 84 105 126 Lens shift height H1 inch 4 4 5 6 6 7 8 8 11 14 18 21 cm 9 11 12 14 16 18 20 21 27 36 45 54 inch 3 4 4 5 6 6 7 7 9 12 15 18 H2 cm 8 9 11 12 14 16 17 19 23 31 39 47 ·

Projection distance changes according to the setting of SCREEN SIZE in the ADVANCED MENU in the IMAGE menu. The table above is in the case of "16:9." ·

Depending on the installation conditions, warm air that is emitted from the exhaust vents may flow into the intake vent, causing the projector to display "TEMPERATURE!!" and then stop projecting images. EN-10 Setting up your projector (continued) Screen size and projection distance (continued) Screen Screen height (SH) Screen width (SW) Down side Hd H2 L Up side H1 When the aspect ratio of the screen is 4:3 SW (=W) B Screen (4:3) Image (16:9) SH H B When the aspect ratio of the screen is 4:3, the positional relation between the projected image and the screen is as shown on the right. Refer to the following table for installation. When the aspect ratio of the image is 16:9 Screen size (4:3) Diagonal size Height (SH) inch 50 60 70 80 90 100 110 120 150 200 250 300 cm 152 178 203 229 254 279 305 381 508 635 762 inch 36 42 48 54 60 66 72 90 120 150 180 cm 91 107 122 137 152 168 183 229 305 381 457 inch 48 56 64 72 80 88 96 120 160 200 240 cm 122 142 163 183 203 224 244 305 406 508 610 Size of the projected image (16:9) Height (H) inch 27 32 36 41 45 50 54 68 90 113 135 cm 69 80 91 103 114 126 137 171 229 286 343 Width (W) inch 48 56 64 72 80 88 96 120 160 200 240 cm 122 142 163 183 203 224 244 305 406 508 610 inch 55 64 73 83 92 101 110 138 184 229 275 cm 140 163 187 210 233 256 280 350 466 583 699 Width (SW) Diagonal size Black Projection distance (L) space (B) Shortest (Wide) Longest (Tele) inch 5 5 6 7 8 8 9 11 15 19 23 cm 11 13 15 17 19 21 23 29 38 48 57 inch 65 77 88 99 110 122 133 166 223 279 335 m 1.7 1.9 2.

2 2.5 2.8 3.1 3.4 4.

2 5.7 7.1 8.5 inch 98 115 132 148 165 182 199 249 332 m 2.5 2.

9 3.3 3.8 4.



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2 4.6 5.0 6.3 8.4 - Hd inch 9 11 12 14 15 17 18 23 30 38 45 cm 23 27 31 35 38 42 46 58 77 96 115 Lens shift height H1 inch 4 5 5 6 6 7 8 10 13 16 19 cm 10 11 13 15 16 18 20 25 33 41 49 H2 inch 3 4 4 5 6 6 7 8 11 14 17 cm 9 10 11 13 14 16 17 21 29 36 43 .

Projection distance changes according to the setting of SCREEN SIZE in the ADVANCED MENU in the IMAGE menu. The table above is in the case of "16:9." When the aspect ratio of the screen is 2.

35:1 (CinemaScope) H SW (=W) B Image (16:9) SH Screen (2.35:1) Screen size (2.35:1) Diagonal size Height (SH) inch 100 110 120 130 140 150 160 170 180 190 200 cm 254 279 305 330 356 381 406 432 457 483 508 inch 39 43 47 51 55 59 63 66 70 74 78 cm 99 109 119 129 139 149 159 169 179 189 199 inch 92 101 110 120 129 138 147 156 166 175 184 cm 234 257 281 304 327 351 374 397 421 444 468 Size of the projected image (16:9) Height (H) inch 52 57 62 67 72 78 83 88 93 98 104 cm 131 145 158 171 184 197 210 224 237 250 263 Width (W) inch 92 101 110 120 129 138 147 156 166 175 184 cm 234 257 281 304 327 351 374 397 421 444 468 inch 106 116 127 137 148 158 169 180 190 201 211 cm 268 295 322 349 375 402 429 456 483 510 536 Width (SW) Diagonal size Black Projection distance (L) space (B) Shortest (Wide) Longest (Tele) inch 6 7 8 8 9 9 10 11 11 12 13 cm 16 18 19 21 22 24 26 27 29 31 32 inch 127 140 153 166 179 192 205 218 231 244 256 m 3.2 3.6 3.9 4.2 4.5 4.9 5.2 5.5 5.9 6.2 6.5 inch 190 209 229 248 267 286 305 325 344 363 382 m 4.8 5.3 5.8 6.3 6.8 7.3 7.7

8 8.2 8.7 9.2 9.7 B Hd inch 24 26 28 31 33 36 38 40 43 45 47 cm 60 66 72 78 84 90 96 103 109 115 121 Lens shift height H1 inch 7 8 9 10 10 11 12 13 13 14 15 cm 19 21 23 25 26 28 30 32 34 36 38 H2 inch 6 7 8 8 9 10 10 11 12 12 13 cm 16 18 20 21 23 25 26 28 30 31 33 .

Projection distance changes according to the setting of SCREEN SIZE in the ADVANCED MENU in the IMAGE menu. The table above is in the case of "CINEMA SCOPE (2.35:1)." EN-11 Setting up your projector (continued) Adjusting the position of the projected image To adjust the position of the projected image on the screen, use the LENS SHIFT dial. 1. Rotate the LENS SHIFT dial inside the top cover of the projector to adjust the image position.

- Rotating the dial clockwise (or counter clockwise for a ceiling-mount projector) moves the image up. · Rotating the dial counter clockwise (or clockwise for a ceiling-mount projector) moves the image down. · Be careful not to be caught in the opening in the lens while the lens is moving. · While the lens shifts working, the screen may flicker. · Projected images may become distorted, have decreased resolution, or have shadows at their corners if they are positioned close to the top (or bottom in the case of a ceiling-mount projector). Correcting skewed or distorted image 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. 1. Tilt up the projector to the appropriate angle. 2. Rotate the adjustment feet for fine adjustment. Important: · Don't transport the projector with its adjustment feet extended. Otherwise the adjustment feet may be damaged. Screen Adjustment feet 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.

(See page 18 or 23 for focus adjustment.) When projected images are distorted to a trapezoid When the screen and the projector are not placed perpendicularly to each other, projected images become trapezoidal. If you cannot make the projector and the screen perpendicular to each other by mechanical adjustments, adjust keystone. With the INSTALLATION menu: (See page 29 for menu setting.) 1. Display the INSTALLATION menu. 2. Select KEYSTONE by pressing the p or q button. 3. Equalize the widths at the top and bottom of the screen by pressing the t or u button, viewing the screen. To cancel the menu: 4. Press the MENU button several times. opt. INSTALLATION KEYSTONE LAMP MODE STANDBY MODE AUTO POWER ON AUTO POWER OFF ON 0 LOW STANDARD OFF SPLASH SCREEN Press the t button. Press the u ON button.

BLUE OFF BACK COLOR IMAGE · In the keystone adjustment, you can obtain an optimum result when the LENS SHIFT dial is at the center position. OFF REVERSE · When the keystone adjustment is carried out, the adjustment value is indicated. Note that this value doesn't mean TRIGGER1 (POWER) OFF a projection angle. TRIGGER2 (ANAMO) OFF · When the keystone adjustment takes effect, the resolution decreases. In addition, stripes may appear or straight TEST PATTERN CROSS HATCH lines may bend in images with complicated patterns. They are not due to product malfunctions. · When the keystone adjustment is carried out, the image may not be displayed correctly because of the type of input signal. · When the keystone adjustment is performed, the displayed image may be distorted. · Depending on the installation conditions of the projector and the screen, a perfect rectangular image and the proper aspect ratio may not be obtained. EN-12 Setting up your projector (continued) Front projection, ceiling mounting Near a heater. In an oily, smoky, or damp place such as a kitchen. Indirect 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). · Keep foliage plants and pets away from the projector. The temperature around the exhaust vents and that of the cabinet on the top of the exhaust vents become high. Take special care for small children. Important: · We don't recommend using the projector at an altitude of 1500 meters or higher. Use at an altitude of 1500 meters or higher may affect the projector's life. · · · 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. · When using the projector mounted on the ceiling, set IMAGE REVERSE in the INSTALLATION menu to MIRROR INVERT. See page 32. · 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. · Ask your installation specialist to provide an A/C power switch. When you do not use the projector, be sure to shut down the main power by the switch. · Don't install the projector where the exhaust vents are exposed to air emitted by an air conditioning. Such installation may cause a breakdown. · Don't install the projector near a fire alarm because it emits hot air from its exhaust vents. TRIGGER terminal The TRIGGER terminals on the rear of the projector are terminals that output 12 V signal to control externally connected devices (electric screens) when images are projected. Ring (NC) To externally connected device To TRIGGER 1 or TRIGGER 2 terminal (Ground 0 V) Tip (12 V) Rear projection To use the TRIGGER terminals, set TRIGGER 1 (POWER) or TRIGGER 2 (ANAMO) to ON in the INSTALLATION menu.



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(The factory default is OFF. See page 32 for details.) Use the following steps to change the setting. With the INSTALLATION menu: (See page 29 for menu setting.) 1. Display the INSTALLATION menu.

2. Select TRIGGER 1 (POWER) or TRIGGER 2 (ANAMO) by pressing the p or q button. 3. Select ON by pressing the t or u button. To cancel the menu: 4. Press the MENU button. Ask a specialist for installation. For details, consult your dealer. · For rear projection, set IMAGEREVERSE in the INSTALLATION menu to MIRROR. See page 32.

Caution: Caution: · Placing the projector directly on a carpet impairs · Don't use the signal output from the TRIGGER ventilation by the fans, causing damage or failure. terminals as power for other devices. Put a hard board under the projector to facilitate · Don't link the TRIGGER terminals with audio ventilation. terminals of other devices because that devices · Place the projector at least 50cm (or 20 inch) away may be damaged. from the wall to prevent the air inlet grille and the air · The rated current for the TRIGGER terminals are outlet grilles that emit hot air from being blocked. 200 mA. If you use a current exceeding this rating, · Don't use the projector in the following locations a failure may occur. and manners, which may cause fire or electric · For information about electric screens, please shock. contact screen manufacturers. · In a dusty or humid place.

· In a sideways position, or with the lens facing EN-13 down. Viewing video images A. Connecting the projector to video equipment · 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. Preparation: · Make sure that the power of the projector and that of the video equipment are returned off. Basic home theater system connection Video player DVD player Set-top box or digital tuner EN-14 Viewing video images (continued) Connecting to a DVD player or HDTV decoder To connect this projector to video equipment that has component video output terminals, such as a DVD player, use the COMPONENT VIDEO IN terminals. Y Component cable (option) Y PR/CR PB/CB PR/CR PB/CB Y DVD player or HDTV decoder 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. Images may not be projected correctly depending on the type of the DVD player you use.

Though it may take some time before an image is displayed on the screen depending on the type of the input signal, such symptom is not a malfunction.

· When connecting a HDTV decoder having RGB output terminals, set COMPUTER INPUT to RGB in the SIGNAL menu. · · · EN-15 Viewing video images (continued) Connecting to video equipment having a HDMI terminal You can project high-quality images by connecting the HDMI 1 or HDMI 2 terminal of this projector to video equipment having a HDMI output terminal. In addition, this projector supports HDCP and is able to receive encrypted digital video data that are output from DVD players. · Select HDMI as the input source. · HDCP (High-

bandwidth Digital Content Protection), developed by Intel Corporation, is a method to encrypt digital video data for the purpose of copy protection.

· HDMI (High-Definition Multimedia Interface) is fully backward compatible with computers, displays and consumer electronics devices incorporating the DVI standards. · This projector can be linked with video devices equipped with HDMI output terminal. However, with some of them, this projector may not display any image or not operate correctly. · If this projector doesn't display any image or not operate correctly, see the operation manual of the video device for its connection. · When you use the video equipment other than HDMI conforming product, the image may not be projected properly.

· Use of a long cable may decrease the quality of projected images. Connection (for video equipment having an HDMI terminal) ·

Use a commercially available HDMI (with HDMI logo) cable. · Some cables may not be connected correctly depending on the size and shape of their connectors. ·

To connect the projector and video equipment via a distributor, use a Deep Color supported distributor compliant with HDMI 1.3 or higher (or a 3D display supported distributor compliant with HDMI 1.4 or higher when displaying 3D images.) Audio cable (option) Equipment having an HDMI terminal To audio output terminals To audio input terminals To HDMI terminal HDMI (with HDMI logo) cable (option) To HDMI 1 or HDMI 2 terminal When you connect this projector and a Digital device (such as a DVD player) via the HDMI terminal, black color may appear dark and deep, depending on the type of the connected device. · This depends on the black level setting of the connected device. There are two kinds of methods to digitally transfer image data, in which different black level settings are employed respectively. Therefore, the specifications of the signals output from DVD players differ, depending on the type of the digital data transfer method they use.

· Some DVD players are provided with a function to switch the method to output digital signals. When your DVD player is provided with such function, set it as follows. EXPAND or ENHANCED NORMAL · See the user's guide of your DVD player for details. ·

Set HDMI INPUT of ADVANCED MENU in the IMAGE menu depending on the device to be used. EN-16 Viewing video images (continued) B. Plugging in the power cord · 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. 1. Plug the attached power cord into the power cord inlet of this projector. 2.

Plug the other end of the power cord into a power outlet. Earthing terminal 2 1 Power cord (example) · One of power cords for the U.S., Europe, U.K., Australia, and South Korea is provided appropriately. · This projector uses the power plug of three-ping grounding type. Don't take away 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 100-240VAC 50/60Hz to prevent fire or electric shock. · Don't place any objects on the power cord or don't 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. ·

Don't modify or alter the power cord. If the power cord is modified or altered, it may cause fire or electric shock. Caution: · Plug in the power cord firmly. When unplugging, hold and pull the power plug, not the power cord.

· Don't plug in or out the power cord with your hand wet. It may cause electric shock. ·

Don't turn on the power before attaching the lens. The cabinet may be exposed to the light from the lamp directly and heated to a high temperature, resulting in deformation.



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· When you move the projector, turn off the power, unplug the power cord from the wall outlet, and then remove the connected cords. Otherwise, the power cord may be damaged, resulting in fire or electric shock. · If dust or metallic substance is on or around the pins of the power plug, unplug the power cord and clean it using a dry cloth. If you continue to use the projector without cleaning, it may result in fire or electric shock. Clean the power plug periodically at least once a year. · Be sure to unplug the power cord from the wall outlet if the projector will not be used for a long period of time. Otherwise, it may cause fire. EN-17 Viewing video images (continued) C. Projecting images Preparation: · Remove the lens cap. · Turn on the power of the connected video equipment. POWER button POWER indicator STATUS indicator t, u buttons ON (I) button HDMI 1/2 button COMPONENT button HDMI/COMPUTER button COMPONENT button 1. Confirm the POWER indicator lights-up red. · If the projector was turned off before the lamp had cooled down sufficiently, the fan may start rotating and the POWER button may not work after the power cord is plugged. (The STATUS indicator blinks green.) After the fan stops rotating, press the POWER button to turn back on the POWER indicator. 2. Press the POWER button on the projector or ON (I) button on the remote control. · It may take about one minute for the lamp to light up. · The lamp fails to light up on rare occasions. In such a case, wait for a few minutes and then try again. · Do not cover the lens with the lens cap while the lamp is on. · After the POWER button is pressed, the image may flicker before the lamp becomes stable. This is not a product malfunction. · The STANDARD lamp mode is activated by default whenever the projector is turned on. When the LOW LAMP MODE has been chosen, the default STANDARD lamp mode is switched to the LOW lamp mode in 1 minute. · 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 57.) 3. Adjust the focus by turning the focus ring. 4. Select an input source. · Press the COMPONENT or HDMI/COMPUTER button on the projector or the COMPONENT or HDMI 1/2 button on the remote control that is corresponding to the terminal in use. · The input source is switched between COMPUTER, HDMI 1 and HDMI 2 every time you press the HDMI/ COMPUTER button on the projector. · The input source is switched between HDMI 1 and HDMI 2 every time you press the HDMI 1/2 button on the remote control. · The projector automatically selects the appropriate signal format. (The selected signal format is displayed on the INFORMATION menu.) · You cannot change the input source while the menu is being displayed. · Though it may take some time before an image is displayed on the screen depending on the type of the input signal, such symptom is not a malfunction. · Some images become easier to view when the setting of aspect ratio is changed. (See page 20.) · When this projector is connected with an HDMI device supporting HDCP, such as a DVD player, image is not displayed correctly at the time of switching the input source on rare occasions. In such cases, switch to other input source and then switch back to the HDMI input source. · When COMPONENT is chosen as the source, image supplied from the computer may flicker. Press the t or u button on the remote control to reduce flicker, if it occurs. (Fine adjustment) 5. Adjust the position of the projector to keep an appropriate projection distance with which images are projected in their specified sizes. 6. Adjust the position of the projector so that the projector and the screen are perpendicular to each other. (See page 10.) · When the projector cannot be positioned perpendicularly to the screen, adjust the projection angle. (See page 12.) 7. Adjust the image size by turning the zoom ring. 8. Adjust the vertical position of the displayed image by turning the LENS SHIFT dial. If necessary, adjust the focus and zoom again. EN-18 Viewing video images (continued) To stop projecting: POWER button POWER indicator STATUS indicator STANDBY () button 9. Press the POWER button on the projector or the STANDBY () button on the remote control. · A confirmation message is displayed. · To cancel the procedure, leave the projector for a while or press the MENU button. 10. Press the POWER button on the projector or the STANDBY () button on the remote control again. · The lamp goes out and the projector goes into a standby mode. In this standby mode, the STATUS indicator blinks green. 11. Wait about 2 minutes. · During this period of 2 minutes in the standby mode, the intake fan and exhaust fan rotate to cool the lamp. · The lamp can't be lit again for 1 minute after turning off the projector for safety purpose. It will take another 1 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. · Do not unplug the power cord while the STATUS indicator is blinking. Unplugging the power cord immediately after use may cause a lamp breakdown. · Though the fan makes loud sound during cooling, such symptom is not a malfunction. 12. Unplug the power cord from the outlet. · 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. If the lamp doesn't light up immediately, repeat pressing the POWER button two or three times. If it should still fail to light up, replace the lamp. · Cover the lens with the lens cap to protect it from dust. EN-19 Viewing video images (continued) 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. : Signal size : Image area Setting 4:3 Aspect ratio changes depending on the input signal. 16:9 Squeezed image is expanded to 16:9. ZOOM1 CinemaScope image is enlarged and displayed together with subtitles. ZOOM2 Vista image is enlarged and displayed together with subtitles. STRETCH Image is enlarged to 16:9 while the center aspect ratio remains unchanged. ANAMORPHIC1 ANAMORPHIC2 This mode is suitable for viewing 2.35:1 size images using the anamorphic lens. This mode is suitable for viewing 16:9- or 4:3-size images or images input from personal computers using the anamorphic lens. Original image size 480i, 576i, 480p, 576p 4:3 image (480i, 576i, 480p, 576p, and PC) PC signal Squeezed 4:3 (480i, 576i, 480p, 576p) 4:3 CinemaScope (480i, 576i, 480p, 576p) Sub Title Sub Title Sub Title Sub Title Sub Title Sub Title Sub Title Sub Title Sub Title 4:3 Vista image (480i, 576i, 480p, 576p) 16:9 image (720p, 1080i, 1080p) 2. 35:1 image · Bold frames are recommended modes. · When ASPECT is set to AUTO, an optimum aspect ratio is automatically selected depending on the input signal.



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· When ASPECT is set to ZOOM1, ZOOM2 or ANAMORPHIC1, display position can be changed with p or q button on the remote control. · OVERSCAN in the SIGNAL menu is not available in the STRETCH mode. · Display pattern changes according to the setting of SCREEN SIZE in the IMAGE menu. The table above is in the case of "16:9." · This projector is equipped with a function to change the aspect ratio. If you select an aspect ratio that is inconsistent with that of the input signal, images around the screen edges may be hidden or deformed. When viewing original video works reflecting the authors' intentions, you are recommended to keep their aspect ratios unchanged. · It may be an infringement of the rights protected by the copyright law to project images compressed or enlarged by changing the aspect ratio in public areas, such as inside and outside shops and hotels, for commercial or public viewing purposes.

· When SCREEN SIZE of ADVANCED MENU is set to CINEMASCOPE (2.35:1) in the IMAGE menu, STRETCH, ANAMORPHIC1 and ANAMORPHIC2 cannot be selected for ASPECT. EN-20 Viewing video images (continued) How to change the settings: With the remote control: 1. Press the ASPECT button or ANAMO button. · Every time the ASPECT button is pressed, the aspect mode changes from AUTO to 4:3, 16:9, to ZOOM1, to ZOOM2, to STRETCH, and back to AUTO. · Every time the ANAMO button is pressed, the aspect mode changes from ANAMORPHIC1 to ANAMORPHIC2 and back to ANAMORPHIC1. · Some modes are not available with certain signals. With the FEATURE menu: (See page 29 for menu setting.) 1. Display the FEATURE menu.

2. Select ASPECT by pressing the p or q button. 3. Select your desired aspect ratio by pressing the t or u button. To cancel the menu: 4. Press the MENU button. opt. FEATURE ASPECT PASSWORD FUNCTION MENU POSITION MENU DIMMER AUTO DISPLAY INPUT 1. OFF CINEMA MODE AUTO Important: AUTO REMOTE POSITION · When a 4:3 or 2.35:1 (CinemaScope) image is kept displayed for a long time before displaying 16:9 image, the AÆ English LANGUAGE after images of the black bars may appear on the 16:9 image screen.

RESET ALL OK EN-21 Viewing computer images A. Connecting the projector to a computer Preparation: · Make sure that the power of the projector and that of the computer are returned off. · When connecting the projector to a desktop computer, disconnect the computer cable that are reconnected to the monitor. 1. Connect one end of the supplied computer cable to the COMPUTER/COMPONENT VIDEO IN terminal of the projector.

To COMPUTER/COMPONENT VIDEO IN 2. Connect the other end of the computer cable to the terminal monitor port of the computer. 2 1 Computer cable To monitor port · Additional devices, such as a conversion connector and an analog RGB output adapter, are required depending on the type of the computer to be connected. · When viewing images supplied from an analog-connected computer, press the COMPUTER button on the remote control. · Turn on the power of the projector before that of the computer.

· Additional devices, such as a conversion connector and an analog RGB output adapter, are required depending on the type of the computer to be connected. · Use of a long cable may decrease the quality of projected images. · Also read the instruction manual of the equipment to be connected. · Images may not be projected correctly, depending on the type of the computer connected. · Contact your dealer for details of connection. About DDC The COMPUTER/COMPONENT VIDEO IN terminal of this projector complies with the DDC1/2B standard and the HDMI 1 and HDMI 2 terminals comply with the DDC2B 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. B. Plugging the power cord Plug the power cord in the same way as described in "Viewing video images."

" (See page 17.) EN-22 Viewing computer images (continued) C. Projecting images Preparation: · Remove the lens cap. · Turn on the power of the connected computer. POWER button POWER indicator STATUS indicator t, u buttons ON (I) button COMPUTER button HDMI/COMPONENT button 1. Confirm the POWER indicator lights-up red. · If the projector was turned off before the lamp had cooled down sufficiently, the fan may start rotating and the POWER button may not work after the power cord is plugged. (The STATUS indicator blinks green.) After the fan stops rotating, press the POWER button to turn back on the POWER indicator. 2. Press the POWER button on the projector or ON (I) button on the remote control. · It may take about one minute for the lamp to light up. · The lamp may fail to light up on rare occasions. In such a case, wait for a few minutes and then try again. · Do not cover the lens with the lens cap while the lamp is on. · After the POWER button is pressed, the image may flicker before the lamp becomes stable. This is not a product malfunction. · The STANDARD lamp mode is activated by default whenever the projector is turned on. When the LOW LAMP MODE has been chosen, the default STANDARD lamp mode is switched to the LOW lamp mode in 1 minute. · 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 57.) 3. Adjust the focus by turning the focus ring. 4. Select an input source. · Press the HDMI/COMPONENT button on the projector or the COMPUTER button on the remote control to select COMPUTER. · The input source is switched between COMPUTER, HDMI1 and HDMI2 every time you press the HDMI/COMPONENT button on the projector.

· Though it may take some time before an image is displayed on the screen depending on the type of the input signal, such symptom is not a malfunction. · Images may not be projected in the correct position, depending on the type of the input signal. In such a case, press the AUTO POSITION button. (See page 24.) · The projector automatically selects the appropriate signal format. (The selected signal format is displayed on the INFORMATION menu.) · You cannot change the input source while the menu is being displayed. · When COMPUTER is chosen as the source, images supplied from the computer may flicker. Press the t or u button on the remote control to reduce flicker, if it occurs. (Fine adjustment) 5. Adjust the position of the projector to keep an appropriate projection distance with which images are projected in their specified sizes. 6. Adjust the position of the projector so that the projector and the screen are perpendicular to each other. (See page 10.) · When the projector cannot be positioned perpendicularly to the screen, adjust the projection angle. (See page 12.) 7. Adjust the image size by turning the zoom ring. 8. Adjust the vertical position of the displayed image by turning the LENS SHIFT dial. If necessary, adjust the focus and zoom again. EN-23 Viewing computer images (continued) To stop projecting: 9. Press the POWER button on the projector or the STANDBY () button on the remote control.



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· A confirmation message is displayed. · To cancel the procedure, leave the projector for a while or press the MENU button. 10. Press the POWER button on the projector or the STANDBY () button on the remote control again. · The lamp goes out and the projector goes into a standby mode. In this standby mode, the STATUS indicator blinks green. 11.

Wait about 2 minutes. · During this period of 2 minutes in the standby mode, the intake fan and exhaust fan rotate to cool the lamp. · The lamp can't be lit again for 1 minute after turning off the projector for safety purpose. It will take another 1 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. · Don't unplug the power cord while the STATUS indicator is blinking. Unplugging the power cord immediately after use may cause a lamp breakdown. ·

Though the fan makes loud sounds during cooling, such a symptom is not a malfunction. 12.

Unplug the power cord from the outlet. · 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. If the lamp doesn't light up immediately, repeat pressing the POWER button two or three times.

If it should still fail to light up, replace the lamp. · Cover the lens with the lens cap to protect it from dust. AUTO POSITION button When the image supplied from the computer is displaced, carry out the following procedure. 1. Display a bright image (such as a full-screen display of the Recycle Bin window).

2. When the screen saver has been enabled, disable it. 3. Press the AUTO POSITION button. The projector automatically makes optimum positional settings for the input signal. · If the image is not projected in the correct position even after you press the AUTO POSITION button several times, change the settings in the SIGNAL menu to put the image in the correct position. (See page 34.) · When you carry out this procedure with a dark image, the image may be displaced. When connecting to a notebook computer: When the projector is connected to a notebook computer, images may not be projected in some cases. In such cases, set the computer so that it can output signals externally.

The setting procedure varies depending on the type of the computer. See the instruction manual of your computer. Example of the setting procedure for external output Press the [Fn] key and any of the keys [F1] to [F12] at the same time. (The key to be pressed depends on the type of the computer you use.)

Setting of the resolution If the resolution of the computer doesn't match with that of the projector, projected images may be obscured. Ensure that their resolutions are the same (see page 59). For the method to change the output resolution of the computer, contact the manufacturer of the computer. EN-24 Viewing 3D images With the separately sold 3D glasses (EY-3DGS-78U), you can enjoy viewing 3D images on this projector. To view 3D images, install the supplied 3D emitter. Important: · Don't put any object which obstructs the communication between the 3D emitter and the 3D glasses.

· Don't place the 3D emitter near the remote control sensor of other devices. · The transmission distance is decreased when the infra-red signal from the 3D emitter is transmitted to the 3D glasses by reflecting on the screen. In addition, the transmission distance in such case varies depending on the characteristics of the screen. Installing the 3D emitter 1. Unplug the power cord of the projector.

2. Place the supplied non-slip sheet on the bottom of the 3D emitter. Non-slip sheet 3D emitter 3. Connect the 3D emitter terminal on the 3D emitter to the 3D SYNC terminal on the projector using the supplied mini DIN 5-pin cable. To 3D emitter terminal To 3D SYNC terminal Mini DIN 5-pin cable 4.

Plug the power cord of the projector into the wall outlet and turn on the power. · The indicator on the 3D emitter will light green and the 3D emitter will be ready to communicate with the 3D glasses. 5. Adjust the position and angle of the 3D emitter so that the 3D glasses can receive the infra-red signal. ·

The traveling distance of the infra-red signal from the 3D emitter is about 10 m in straight line from the front of the infra-red transmission part. ·

You can adjust the angle of the infra-red transmission part as shown below. Loosen the knob to adjust the angle and after finishing the adjustment, tighten the knob. Infra-red transmission part Knob · Secure the 3D emitter using the supplied 3D emitter securing screws as necessary. EN-25 Viewing 3D images (continued) 3D images viewing This projector is able to display the following 3D display supporting broadcasts and signals as stereoscopic images. (As of January, 2011) · 3D images input from the recorder/player supporting 3D display.

(Side by side, top and bottom, and frame packing) · 3D images by the digital terrestrial broadcasting and BS digital broadcasting. (Side by side) (For viewing 3D images with CATV (cable television), please consult CATV broadcasters or CATV providers.) (For details about the supported 3D image signal formats, see "3D supported signals" on page 59.) This projector is also able to display 3D images converted from 2D images. 3. Press the p or q button to select the desired item and press the t or u button to select the desired option. 3D MODE If 3D images aren't displayed properly with AUTO selected, select the video format (FRAME PACKING, SIDE BY SIDE, or TOP AND BOTTOM) suitable for the 3D image being displayed. Alternatively, you can select the video format using the 3D MODE button on the remote control. 3D SYNC. If you feel uncomfortable while viewing 3D images, the right-left synchronization between the 3D image and the 3D glasses (LCD shutter) may be lost.

In such a case, set 3D SYNC. to REVERSE. To view 3D images: Preparation: opt. · Please read the 3D glasses user manual carefully before viewing the 3D images. IMAGE · Switching the 3D mode (such as 3D settings system) PICTURE MODE CINEMA of the recorder/player may be required when GAMMA MODE CINEMA projecting 3D images from the recorder/player 0 supporting CONTRAST 3D display.

Read the user manual of the recorder/player for details. BRIGHTNESS 0 MEDIUM COLOR TEMP. 1. Project a 3D image on the screen. COLOR 0 2.

Display the IMAGE menu. 0 TINT (See page 29 for menu setting.) SHARPNESS 0 3. Select 3D by pressing the p or q button. BrilliantColor™ 3D ADVANCED MENU ON OFF OK To convert 2D images to 3D images: 1. Project a 2D image. 2. Perform steps 2 to 4 in the section "To view 3D images." 3. Press the ENTER button.

· The 3D menu will appear. 4. Select 3D MODE by pressing the p or q button. 3D 3D MODE 3D SYNC. AUTO NORMAL 2D-3D 5. Set 3D MODE to AUTO by pressing the t or u ON CONVERSION button. 5 3D DEPTH 3D 6. Select 2D-3D CONVERSION by pressing the p or 3D MODE AUTO q button.



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3D SYNC. NORMAL ON 5 2D-3D CONVERSION 3D DEPTH 4.

Set 3D to ON by pressing the t or u button. · The projector will be ready to display 3D images. 5. Turn the power switch on the 3D glasses to ON. 6. Wear the 3D glasses. · Now you are ready to view 3D images. To change the 3D viewing mode: When 3D images aren't displayed properly, change the following setting using the menu. (See page 29 for menu setting.) 1.

Display the IMAGE menu and set the 3D option to ON. 2. Press the ENTER button. · The 3D menu will appear. 3D 3D MODE 3D SYNC. 2D-3D CONVERSION 3D DEPTH AUTO NORMAL ON 5 7. Set 2D-3D CONVERSION to ON by pressing the t or u button. ·

Now 2D images are converted into 3D images. 3D 8. Turn the power switch on the 3D glasses to ON and 3D MODE AUTO wear the 3D glasses.

3D SYNC. NORMAL 9. Select 3D DEPTH by pressing the p or q button. 2D-3D CONVERSION ON 5 3D DEPTH 10. Adjust the depth of the converted 3D images by pressing the t or u button. · You can select the depth from 10 levels (1 to 10). As the level increases, the appearance of depth is enhanced. · 3D images converted from 2D images appear blurred due to conversion. · To finish the conversion to 3D images, set 2D-3D CONVERSION back to OFF. EN-26 Viewing 3D images (continued) Important: · If the viewing distance is nearer than the recommended distance, it will cause physical discomfort and eye fatigue. · The 3D glasses may not work properly when it is used too far from the screen. · Watch the contents in front of the screen, not at big angle. If you are viewing the screen at big angle, you may not be able to view 3D contents correctly. · There are personal differences in viewing the 3D images. For persons with myopia, hypermetropia, astigmatism or left and right sights, please wear glasses to correct them then wear the 3D glasses.

· The picture seems misplaced at the start of projecting the 3D images, however, this is not a malfunction. · When 3D in the IMAGE menu is set to OFF, 3D images are not displayed properly. · While side-by-side or top-and-bottom 3D images are displayed, the aspect ratio setting is fixed to 16:9. ·

When you display a menu or dialog while viewing side-by-side or top-and-bottom 3D images, they are displayed in the 2D mode temporarily. When the menu or dialog disappears, they are displayed in the 3D mode again.

· The key stone setting is invalid (restored to the default setting) while you are watching the 3D images. The setting can not be changed. ·

When connecting the projector and a player such as BD player through a HDMI signal distributor or AV amplifier via HDMI cable, make sure to use the HDMI signal distributor or AV amplifier supporting HDMI 1.4 (3D). · This projector controls the open/close timing of the 3D glasses lenses (liquid crystal shutter) by using the infra-red signals received from the 3D emitter. Therefore, in rare cases, a remote control of other devices such as an air conditioner or lighting apparatus which uses the infra-red signals may not operate properly (while you are watching the 3D images). However, it is not a malfunction. Caution: Notes on danger to public health during watching 3D image · Stop viewing the 3D image immediately if you feel tired, discomfort, or any other abnormality. It may cause you to feel unwell if continuing to watch the 3D image in such cases. Please take the necessary rest, do not continue watch the 3D image for a long time.

Stop using the 3D glasses if you can clearly see double images when viewing 3D content. Prolonged use may cause eyesight fatigue. ·

The following people need to refrain from use as with 2D image. · a photosensitive patient · a patient with heart disease · a person in poor physical condition · a sleepy person · a very tired person · a drunk person · children · When watching 3D movies, take an appropriate break after watching a movie. When watching 3D content on interactive devices such as 3D games or computers, take an appropriate break every 30-60 minutes. Prolonged use may cause eyesight fatigue. · When you feel uncomfortable, stop viewing 3D images and playing 3D games until you are restored. If necessary, consult a doctor. Also, stop driving a car until you are restored (for about 2 hours). The period to restore varies with the individual.

· As a guide, 3D glasses should not be used by children younger than 5 - 6 years old. As it is difficult to judge younger children's reactions to fatigue or discomfort, their physical condition may deteriorate suddenly. When this product is being used by a child, the parent or guardian should check to ensure that the child's eyes are not becoming tired. · When viewing the pictures that rollover and shake or many dynamic pictures, if you feel uncomfortable, please look at another place. · When viewing contents with movements such as rotation, or horizontal or vertical oscillation, you may feel as if you are actually moving.

If such a feeling results in discomfort, look away from the screen. · When using the 3D glasses, be careful not to strike the screen or other people by mistake. As the images are in 3D, you may mistake the distance from the screen, causing to strike the screen which may result in injury. When using the 3D glasses, do not place breakable objects near the glasses. You may move by mistaking the 3D objects you are viewing as the real objects, causing damages to surrounding objects that may lead to injury.

· When using the 3D glasses, make sure your eyes are on an approximate horizontal level. If you suffer from myopia (short sightedness), hyperopia (far-sightedness), astigmatism, or have eyesight differences between the left and right eyes, please use corrective glasses or other such methods to correct your eyesight before putting on the 3D glasses. · When you view the 3D images, keep distance from the screen of about three times the effective height of the screen.

EN-27 Menu operation You can make various settings using the displayed menus. IMAGE PICTURE MODE GAMMA MODE CONTRAST BRIGHTNESS COLOR TEMP. CINEMA, VIDEO, 3D, ISF(DAY), ISF(NIGHT), AV MEMORY1, AV MEMORY2, AV MEMORY3 CINEMA, 2.0, 2.1(VIDEO), 2.2, 3D, 2.4 USER1, USER2 ±30 ±30 HIGH BRIGHTNESS, COOL, MEDIUM, WARM, 3D USER REFERENCE ADJUST MODE 2%, 4%, 6%, 10%, 15%, 20%, 25%, 30%, 40%, 50%, 70%, 90% REFERENCE CONTRAST R CONTRAST G CONTRAST B BRIGHTNESS R BRIGHTNESS G BRIGHTNESS B 2.

0, 2.1(VIDEO), 2.2, 3D, 2.4 ALL, RED, GREEN, BLUE ±99(R)±99(G)±99(B) COOL, MEDIUM, WARM ±60 ±60 ±60 ±60 ±60 ±60 COLOR TINT SHARPNESS *1 BrilliantColor™ 3D ADVANCED MENU ±10 ±10 ±5 ON, OFF ON OFF OK 3D MODE 3D SYNC. 2D-3D CONVERSION 3D DEPTH SCREEN SIZE VERTICAL LOCATION FRAME RATE CONVERSION F.R.C. LEVEL AUTO IRIS NOISE REDUCTION *6 *1 CTI HDMI INPUT *1 SETUP COLOR MANAGEMENT COLOR SPACE AUTO, FRAME PACKING, SIDE BY SIDE, TOP AND BOTTOM NORMAL, REVERSE ON, OFF 1 - 10 16:9, CINEMA SCOPE (2.35:1) ±26 OFF, TRUE FILM, TRUE VIDEO 1-5 OFF, AUTO 1, AUTO 2, AUTO 3 ON, OFF 0-5 AUTO, ENHANCED, NORMAL, SUPERWHITE *7 AUTO, OFF, 3.



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75%,7.

5% ON OFF WIDE, NORMAL RED, YELLOW, GREEN, CYAN, BLUE, MAGENTA -49 - 50 ±50 ±50 RIGHT UP, LEFT DOWN FULL COLOR, MONO COLOR OK INSTALLATION KEYSTONE LAMP MODE STANDBY MODE AUTO POWER ON AUTO POWER OFF SPLASH SCREEN BACK COLOR IMAGE REVERSE TRIGGER1(POWER) TRIGGER2(ANAMO) TEST PATTERN ASPECT PASSWORD FUNCTION MENU POSITION MENU DIMMER CINEMA MODE *2 REMOTE POSITION LANGUAGE RESET ALL HORIZ. POSITION *4 VERT. POSITION *4 FINE SYNC. *4 TRACKING *1 *4 COMPUTER INPUT OVER SCAN HOLD *4 USER ±15 STANDARD, LOW STANDARD, LOW ON, OFF OFF, 5 min, 10 min, 15 min, 30 min, 60 min ON, OFF BLUE, BLACK OFF, MIRROR, INVERT, MIRROR INVERT ON, OFF ON, OFF CROSS HATCH, WHITE, BLACK COLOR GAIN SATURATION HUE POSITION FULL/MONO RESET FEATURE AUTO, 4:3, 16:9, ZOOM1, ZOOM2, STRETCH, ANAMORPHIC1, ANAMORPHIC2 *3 LOCK OK DISPLAY INPUT, MENU ACCESS UNLOCK OK 1 (Upper left), 2 (Lower right) ON, OFF AUTO, VIDEO, FILM AUTO, FRONT, REAR, English, Español, Deutsch, Français, Italiano, , , , Português OK 0 - 999 *3 0 - 999 *3 0 - 31 0 - 9999 *3 AUTO, RGB, YCBCR/YPBPR 100-90% *3 ON BEGIN END OFF OK xxxxx.. , SET OK OK ON, OFF OK DHCP IP ADDRESS SUBNET MASK DEFAULT GATEWAY MAC ADDRESS CLAMP POSITION *4 CLAMP WIDTH *4 VERT. SYNC. *4 *5 LPF SHUTTER(U) SHUTTER(L) SHUTTER(RS) 1 - 255 1 - 63 AUTO, OFF ON, OFF 0 - 32 0 - 32 0 - 95 0 - 95 *3 *3 SIGNAL 0 - 99 0 - 99 ON, OFF xxx. xxx. xxx. xxx, SET xxx. xxx. xxx. xxx, SET xx-xx-xx-xx-xx-xx NETWORK PROJECTOR NAME NETWORK PASSWORD IP CONFIG PJLink CERTIFICATION NETWORK RESET LAMP TIME (LOW) INPUT RESOLUTION VERTICAL FREQUENCY HORIZONTAL FREQUENCY SYNC. TYPE *4 INFORMATION *1: Not available with certain signals. *2: Available only when the input signal is TV50, TV60, 480i, 576i or 1080i.

*3: Setting range differs depending on the input signals. *4: Not available when the input signal is from the HDMI 1 or HDMI 2 terminal. *5: Available only when the input signal is 480i, 480p, 576i, or 576p. *6: Available only when the input signal is 480i, 480p, 576i, 576p, TV60 or TV50. *7: Available only when RGB output is selected on the output device side. EN-28 Menu operation (continued) How to set the menus 1. Press the MENU button. · The menu selection bar is displayed. Selectable menus are displayed by icons. (The menu icon being selected is displayed on a blue background.) opt. 5. Set the selected item by pressing the t or u button. opt. IMAGE PICTURE MODE GAMMA MODE AV MEMORY1 CINEMA 2 0 CONTRAST BRIGHTNESS COLOR TEMP.

IMAGE MEDIUM 0 0 0 COLOR The name of the menu being selected is displayed. TINT SHARPNESS 2. Press the t or u button to select a menu to use. 3. Press the ENTER button (or q button).

· Theselected menus is displayed. The item being selected is displayed in red letters. opt. BrilliantColor™ 3D ADVANCED MENU ON OFF OK 6. To cancel the menu, press the MENU button several times. Important: · When an item marked with " " is selected, pressing the ENTER button makes its value effective or displays another screen for further setting. · When the MENU button doesn't function, unplug the power cord from the wall outlet. Wait about 10 minutes, plug the power cord in, and try again. · The menus and screens shown in this manual may be different from those of the actual projector. IMAGE PICTURE MODE GAMMA MODE CONTRAST BRIGHTNESS COLOR TEMP.

AV MEMORY1 CINEMA 0 0 MEDIUM 0 0 0 COLOR TINT SHARPNESS BrilliantColor™ 3D ADVANCED MENU ON OFF OK 4. Press the p or q button to select an item to adjust. opt. IMAGE PICTURE MODE GAMMA MODE AV MEMORY1 CINEMA 0 0 CONTRAST BRIGHTNESS COLOR TEMP. MEDIUM 0 0 0 COLOR TINT SHARPNESS BrilliantColor™ 3D ADVANCED MENU ON OFF OK EN-29 Menu operation (continued) Menu items IMAGE menu opt. opt. Set the following items provided in the respective menus. IMAGE PICTURE MODE GAMMA MODE CONTRAST BRIGHTNESS COLOR TEMP. COLOR TINT SHARPNESS BrilliantColor™ 3D ADVANCED MENU AV MEMORY1 CINEMA 0 0 MEDIUM 0 0 0 ON OFF OK IMAGE ADVANCED MENU SCREEN SIZE VERTICAL LOCATION FRAME RATE CONVERSION F.R. C. LEVEL AUTO IRIS NOISE REDUCTION 16 : 9 0 TRUE FILM 2 AUTO 1 OFF 0 AUTO AUTO OFF WIDE CTI HDMI INPUT SETUP COLOR MANAGEMENT COLOR SPACE ITEM PICTURE MODE SETTING CINEMA VIDEO 3D ISF(DAY) / ISF(NIGHT) AV MEMORY1 AV MEMORY2 AV MEMORY3 CINEMA 2.0 2.1(VIDEO) 2.2 3D 2.

4 USER1 / USER2 ±30 ±30 6 options ±10 ±10 ±5 ON / OFF ON OFF FUNCTION Mode for watching movies in dim lighting as in a theater. Standard mode suitable for watching video images, etc. Mode for watching 3D movies. Select this when watching images using the ISF (day) or ISF (night) picture quality settings. Save the customized picture quality settings in the IMAGE menu to these options. (See page 36.) You can adjust and save the settings of the items marked with "*" in the IMAGE menu and LAMP MODE in the INSTALLATION menu. Mode for displaying even dark areas in the image clearly, suitable for watching movies. Bright mode suitable for watching sports images, etc. Standard mode suitable for video images, etc. Standard mode suitable for film materials. Brightest mode for watching 3D movies. Mode suitable for watching crisp and sharp images. Mode to customize the gamma curve. (See page 39).

) Use to adjust the contrast of the projected image. (See page 37.) Use to adjust the brightness of the projected image. (See page 37.) Use to adjust the color temperature. (See page 38.) Use to adjust the color thickness of the projected image. (See page 37.) Use to adjust the color tint of the projected image. (See page 37.)

) Use to adjust the sharpness of the projected image. (See page 37.) Use to select whether or not to enable the BrilliantColor™. Select this when watching 3D images. Press the ENTER button to configure the settings for 3D display.

Select this when not watching 3D images. // GAMMA MODE* CONTRAST* BRIGHTNESS* COLOR TEMP.* COLOR* TINT* SHARPNESS* BrilliantColor™* 3D · You can select the ISF-related settings only when they are already adjusted. @@Select according to the screen size. Use to adjust the position (height) of the projected image.

@@@Select the operation mode of the auto iris. @@Use to correct smeared color boundaries. The proper setting is automatically selected for HDMI input signal. @@@@LEVEL* AUTO IRIS* NOISE REDUCTION* 1-5 4 options ON / OFF 0-5 AUTO ENHANCED NORMAL SUPERWHITE CTI* HDMI INPUT* SETUP* AUTO OFF 3.75%/7.5% Select AUTO for normal use. When LANGUAGE is not set to and 480i, 480p or TV60 signal is input, the SETUP changes to 7.5% automatically. Select to make black lighter. Select to make black intense.

· When 7.5% is chosen, the brightness is decreased by the setup cancel function for the U.S. @@@@Select this option when you want to view images in a well-lit room. Select to moderate the intensity of the lamp. @@@@Choose ON when using the projector mounted on the ceiling. · The projector is in the stand-by mode when the lamp is off. Use the remote control to turn on the lamp.

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