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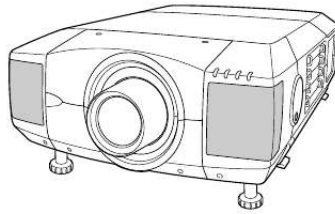
You can read the recommendations in the user guide, the technical guide or the installation guide for SANYO PLC-XF45. You'll find the answers to all your questions on the SANYO PLC-XF45 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SANYO PLC-XF45
User guide SANYO PLC-XF45
Operating instructions SANYO PLC-XF45
Instructions for use SANYO PLC-XF45
Instruction manual SANYO PLC-XF45

SANYO

Multimedia Projector

MODEL PLC-XF45



* Projection lens is optional.

Owner's Manual



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Manual abstract:

@@@If the problem still persists, contact the sales dealer where you purchased the projector or the service center. SAFETY PRECAUTIONS
WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. q This projector produces intense light from the projection lens. Do not stare directly into the lens as possible. Eye damage could result. Be especially careful that children do not stare directly into the beam. q This projector should be set in the way indicated. If not, it may result in a fire hazard. q Take appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum distance should be taken.

If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous. SIDE and TOP 20cm REAR 50cm 50cm 1m q Do not put any flammable object or spray can near the projector, hot air is exhausted from the ventilation holes. q Remote Control Unit, supplied to this projector, emits the laser beam as the laser pointer function from Laser Light Window while pressing LASER button (for 1 minute / LASER POINTER INDICATOR lights red to indicate laser emission).

Do not look into Laser Light Window or shine the laser beam on yourself or other people. Eye damage may result. q If the projector is not to be used for an extended time, unplug the projector from the power outlet. READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE. CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT. THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT. 2 SAFETY INSTRUCTIONS All the safety and operating instructions should be read before the product is operated. Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning. Follow all warnings and instructions marked on the projector.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges. 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 supplied, consult your authorized dealer or local power company. Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it. Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions: a.

When the power cord or plug is damaged or frayed. b. If liquid has been spilled into the projector. c. If the projector has been exposed to rain or water. d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation. e. If the projector has been dropped or the cabinet has been damaged. f. When the projector exhibits a distinct change in performance-this indicates a need for service. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons. Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition. Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc..

. Do not use attachments not recommended by the manufacturer as they may cause hazards. Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers. 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. Slots and openings in the back and bottom of the cabinet are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating. The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface.

This projector should never be placed near or over a radiator or heat register. This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided. Never push objects of any kind into this projector through cabinet slots 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. Voor de klanten in Nederland Bij dit product zijn batterijen geleverd.

Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA. 3 COMPLIANCES Federal Communication Commission Notice This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions.



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If such changes or modifications should be made, you could be required to stop operation of the equipment. CAUTION! This is a Class A equipment. This equipment can cause interference in residential areas; in this case, the operator can be asked to take adequate countermeasures. AC POWER CORD REQUIREMENT The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it. AC Power Cord for the United States and Canada : AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA). AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.

GROUND AC Power Cord for the United Kingdom : This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus . If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions. If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed. The end of the flexible cord should be suitably prepared and the correct plug fitted. (See Over) ASA

WARNING : A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code: Green-and-yellow Earth Blue Neutral Brown Live As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. WARNING : THIS APPARATUS MUST BE EARTHED. THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

4 TABLE OF CONTENTS FEATURES AND DESIGN PREPARATION NAME OF EACH PART OF PROJECTOR SETTING-UP PROJECTOR CONNECTING AC POWER CORD LENS INSTALLATION POSITIONING PROJECTOR LENS SHIFT ADJUSTMENT PICTURE LEVEL AND TILT ADJUSTMENT MOVING PROJECTOR 6 7 7 8 8 9 9 9 10 10 COMPUTER MODE SELECTING INPUT SOURCE SELECTING COMPUTER SYSTEM COMPATIBLE COMPUTER SPECIFICATIONS 26 26 26 28 PC ADJUSTMENT AUTO PC ADJUSTMENT MANUAL PC ADJUSTMENT 29 29 30 PICTURE IMAGE ADJUSTMENT IMAGE LEVEL SELECT IMAGE LEVEL ADJUSTMENT 32 32 33 PICTURE SCREEN ADJUSTMENT 34 VIDEO MODE CONNECTING PROJECTOR TERMINALS OF PROJECTOR CONNECTING TO COMPUTER CONNECTING TO VIDEO EQUIPMENT 35 35 36 37 37 38 11 11 14 15 SELECTING INPUT SOURCE SELECTING VIDEO SYSTEM PICTURE IMAGE ADJUSTMENT IMAGE LEVEL SELECT IMAGE LEVEL ADJUSTMENT PICTURE SCREEN ADJUSTMENT 39 BEFORE OPERATION TOP CONTROLS AND INDICATORS OPERATION OF REMOTE CONTROL LASER POINTER FUNCTION REMOTE CONTROL BATTERIES INSTALLATION 16 16 18 18 19 SETTING SETTING MENU 40 40 OPERATING ON-SCREEN MENU HOW TO OPERATE ON-SCREEN MENU FLOW OF ON-SCREEN MENU OPERATION MENU BAR 20 20 20 21 APPENDIX OPERATING WIRELESS MOUSE MAINTENANCE WARNING TEMP. INDICATOR AIR FILTER CARE AND CLEANING CLEANING PROJECTION LENS LAMP MANAGEMENT LAMP REPLACEMENT 43 43 43 43 44 44 45 46 BASIC OPERATION TURNING ON / OFF PROJECTOR ADJUSTING SCREEN ZOOM ADJUSTMENT FOCUS ADJUSTMENT LENS SHIFT ADJUSTMENT KEYSTONE ADJUSTMENT PICTURE FREEZE FUNCTION NO SHOW FUNCTION P-TIMER FUNCTION 22 22 23 23 23 23 24 24 23 TROUBLESHOOTING TECHNICAL SPECIFICATIONS 48 50 SOUND ADJUSTMENT 24 TRADEMARKS q Apple, Macintosh, and PowerBook are trademarks or registered trademarks of Apple Computer, Inc. q IBM and PS/2 are trademarks or registered trademarks of International Business Machines, Inc. Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean or Japanese. x Keystone Correction x Network board (Optional) Positioning height of a projector may result in distorted image being displayed in a trapezoid shape. Keystone Correction solves this problem by digitally altering projection to produce undistorted images.

Network board is an optional product to control and set up a projector via the network cable. By accessing to the connected projector using the web browser on your computer. It can be controlled and set up the projector remotely. Contact the sales dealer where you purchased this projector for optional parts. 6

PREPARATION NAME OF EACH PART OF PROJECTOR FRONT OF CABINET SPEAKERS INFRARED REMOTE RECEIVER POWER CORD CONNECTOR PROJECTION LENS MAIN ON / OFF SWITCH CARRYING HANDLE LEVEL AND TILT ADJUST HANDLE LENS COVER CAUTION Do not turn on a projector with lens cover attached. High temperature from light beam may damage lens cover and result in fire hazard. BACK OF CABINET EXHAUST VENT HOT AIR EXHAUSTED ! Air blown from exhaust vent is hot. When using or installing a projector, following precautions should be taken. q Do not put a flammable object near this vent. q Keep rear grills at least 3' (1m) away from any object, especially heat-sensitive object.

q Do not touch this area, especially screws and metallic parts. This area will become hot while a projector is used. This projector detects internal temperature and automatically controls operating power of Cooling Fans. INFRARED REMOTE RECEIVER LAMP COVER BOTTOM OF CABINET AIR FILTER AIR INTAKE VENTS This projector is equipped with cooling fans for protection from overheating. Pay attention to following to ensure proper ventilation and avoid a possible risk of fire and malfunction. q Do not cover vent slots. q Keep bottom clear of any objects.



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Obstructions may block cooling air. **ADJUSTABLE FEET** **ADJUSTABLE FEET** **7 PREPARATION SETTING-UP PROJECTOR CONNECTING AC POWER CORD** This projector uses nominal input voltages of 120 V or 200-240 V AC. This projector automatically selects correct input voltage. It is designed to work with singlephase power systems having a grounded neutral conductor. To reduce risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure of type of power supply being in use. Connect a projector with peripheral equipment before turning a projector on. (Refer to pages 12 ~ 15 for connection.)

) Connect AC Power Cord (supplied) to a projector. AC outlet must be near this equipment and must be easily accessible. **NOTE ON POWER CORD AC Power Cord** must meet requirement of country where you use a projector. Confirm AC plug type with chart below and proper AC power cord must be used. If supplied AC Power Cord does not match AC outlet, contact your sales dealer.

Projector side For the U.S.A. and Canada **Ground AC Outlet side** For Continental Europe For the U.K. To **POWER CORD CONNECTOR** on a projector. To the AC Outlet. To the AC Outlet. To the AC Outlet. (120 V AC) (200 - 240 V AC) (200 - 240 V AC) **8 PREPARATION LENS INSTALLATION** Before setting up a projector, install Projection Lens on a Projector.

1. Before installation, check where a projector is used and prepare suitable lens. For specifications of Projection Lens, refer to manual separately attached or contact sales dealer where you purchased a projector. 2. For installation, refer to installation manual supplied to a Projector. When moving or setting up a projector, be sure to replace a Lens Cover to protect a surface. And be careful not to hold or subject a lens to strong forces. It may damage lens, cabinet, or mechanical parts. **POSITIONING PROJECTOR** This projector is designed to project on a flat projection surface. **ROOM LIGHT** Brightness in room has a great influence on picture quality.

It is recommended to limit ambient lighting in order to provide best image. **SCREEN VENTILATION** This projector is equipped with cooling fan to protect it from overheating. Pay attention to following to ensure proper ventilation and avoid a possible risk of fire and malfunction. q Do not cover vents with papers or other materials. q Keep rear grill at least 3 feet (1 m) away from any object.

q Make sure that there are no objects under a projector. An object under a projector may prevent a projector from taking cooling air through bottom vent. **AIR INTAKE VENT (BOTTOM SIDE) EXHAUST VENT (REAR SIDE) LENS SHIFT ADJUSTMENT** Projection lens can be moved up, down, left and right with motor-driven lens shift function. This function makes it easy to provide projected image where you want. Use **LENS SHIFT** button and **POINT UP/DOWN** button to move image up or down.

(Refer to page 23.) Use **LENS SHIFT** button and **POINT LEFT/RIGHT** button to move image left or right. (Refer to page 23.) **MOVED UP OR DOWN MOVED LEFT OR RIGHT** **9 PREPARATION PICTURE LEVEL AND TILT ADJUSTMENT** Picture tilt and projection angle can be adjusted with handles on both sides of a projector. Projection angle can be adjusted to 5.7 degrees upper way. **REAR ADJUSTABLE FEET.** (Refer to P7). **LEVEL AND TILT ADJUST HANDLE** 1 2 3 Press knob on handle. Handle pop out.

KNOB Turn handles (right and left) until picture is projected on proper position. Adjust height of rear adjustable feet by rotating them until projector properly stabled on table. Press knob and retract handle. **ADJUSTABLE FEET** Height of front feet can be adjusted by turning handles. **MOVING PROJECTOR** For safety, be sure to hold Carrying Handles on both sides by 2 or more people when moving a projector. Moving it improperly may result in damage of cabinet or person's injury. Replace lens cover and retract feet to prevent damage to lens and cabinet. **CARRYING HANDLE** 1 2 3 Pull up lock buttons on each side of carrying handles and release locks. Pull carrying handles out fully until it's locked (with a click). Move a projector by holding two handles by 2 or more people.

To retract carrying handles, pull up lock buttons and release lock of handles and press handles fully in until it's locked. **LOCK BUTTONS** Pull up lock buttons to release lock. **CAUTION IN CARRYING OR TRANSPORTING A PROJECTOR** q Do not drop or bump a projector, otherwise damages or malfunctions may result. q When carrying a projector, use a suitable carrying case. q Do not transport a projector by using a courier or transport service in an unsuitable transport case.

This may cause damage to a projector. To transport a projector through a courier or transport service, consult your dealer and best case should be applied. **10 CONNECTING PROJECTOR TERMINALS OF PROJECTOR** This projector applies various input/output terminals and 4 terminal slots for expansion to tune to diversity of signals from computers and video equipment. 4-built-in Terminal Slots enable you to arrange desired combinations of input sources just by changing Terminal Boards. For Terminal Boards, contact sales dealer where you purchased a projector.

4 TERMINAL SLOTS (Factory set) SERIAL PORT IN (MONO) R L INPUT 2 INPUT 3 CONTROL PORT SERIAL PORT OUT AUDIO R/Pr G/Y B/Pb H/HV V CONTROL PORT INPUT 1 INPUT 4 DVI AUDIO L R CONTROL PORT DVI Terminal 5 BNC Terminal AV Terminal HDB 15-PIN Terminal (MONO) R/C JACK USB VIDEO/Y C S-VIDEO AUDIO R L (MONO) AUDIO OUT R L RESET ANALOG RGB AUDIO INPUT/OUTPUT TERMINALS R L (MONO) (MONO) REPLACEMENT OF TERMINAL NOTE; When replacement of terminal board, MAIN ON/OFF switch should be OFF position. 1 2 3 4 Remove 2 Screws on terminal. Pull out terminal by holding handle. Replace terminal. Insert terminal along Guide to fit Plug into Socket. Tighten screws to secure terminal. Screws **NOTES ON ORDERING OR USING OPTIONAL INTERFACE BOARD** When ordering or using Optional Interface Board (Terminal Board), contact your sales dealer. When contacting the sales dealer, tell the Optional Control Number (Op.cont.No.)

) in the menu that is located under Language Select Menu. (See page 39.) **Guide Socket** Figure shows HDB 15-PIN terminal. Plug **11 CONNECTING PROJECTOR INPUT/OUTPUT TERMINALS AND JACKS INPUT 2 5 BNC INPUT JACKS** Connect component video output (Cr, Y, Cb or Pr, Y, Pb) from video equipment to R/Pr, G/Y and B/Pb jacks or connect computer output [5 BNC Type (Red, Green, Blue, Horiz. Sync and Vert. Sync.)] from computer to R/Pr, G/Y, B/Pb, H/HV and V jacks. (Refer to P14, 15) **INPUT 1 DVI INPUT TERMINAL** Connect computer output (Digital/Analog DVI-I type) to this terminal. (Refer to P14.) **INPUT 1, 2, 3, 4 AUDIO INPUT JACKS** Connect audio output from computer or video equipment to these jacks. (Refer to P14, 15.) **SERIAL PORT IN (MONO) INPUT 1 DVI AUDIO L R CONTROL PORT R L INPUT 2 SERIAL PORT OUT AUDIO R/Pr G/Y B/Pb H/HV V CONTROL PORT INPUT 1, 2, 4 CONTROL PORT CONNECTORS** When controlling computer with Remote Control of this projector, connect mouse port of your personal computer to these connectors.



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(Refer to P14.) (MONO) R L (MONO) AUDIO OUT RESET R L (MONO) (MONO) INPUT 3 AV INPUT (VIDEO/Y, C) JACKS Connect composite video output from video equipment to VIDEO/Y jack or connect Separate Y/C video outputs to VIDEO/Y and C jacks. (Refer to P15.) INPUT 4 HDB 15-PIN INPUT TERMINAL Connect computer output (Analog HDB 15-pin type) to this terminal. (Refer to P14.) INPUT 4 R L ANALOG RGB AUDIO CONTROL PORT INPUT 3 R/C JACK USB VIDEO/Y C S-VIDEO AUDIO INPUT 3 S-VIDEO INPUT JACK Connect S-VIDEO output from video equipment to this jack. (Refer to P15.) 12 CONNECTING PROJECTOR SERIAL PORT IN TERMINAL If you control a projector by computer, you must connect a cable (not provided) from your computer to this terminal.

USB PORT (Series B) This port is used to control a projector with computer. It is also used to control computer with Remote Control of this projector. (Refer to P41-43.) Connect USB port of computer to this port. SERIAL PORT OUT TERMINAL This terminal outputs signal from SERIAL PORT IN. More than two projectors can be controlled with one computer by connecting SERIAL PORT IN. of another projector to this terminal. SERIAL PORT IN (MONO) R L (MONO) (MONO) AUDIO OUT RESET R L (MONO) (MONO) R/C JACK When using Wired / Wireless Remote Control Unit as Wired Remote Control, Connect Wired Remote Control Unit to this jack with Remote Control Cable (supplied). (Refer to page 19.) RESET BUTTON This projector uses a micro processor to control unit.

Occasionally, micro processor may malfunction and need to be reset. This can be done by pressing RESET button with a pen, which will shut down and restart unit. Do not use RESET function excessively. AUDIO OUTPUT JACKS Connect an external audio amplifier to these jacks. (Refer to P14, 15.) INPUT 4 R L ANALOG RGB AUDIO CONTROL PORT INPUT 3 R/C JACK USB VIDEO/Y C S-VIDEO AUDIO R L INPUT 2 SERIAL PORT OUT AUDIO R/Pr G/Y B/Pb H/HV V CONTROL PORT INPUT 1 DVI AUDIO L R CONTROL PORT 13 CONNECTING PROJECTOR CONNECTING TO COMPUTER Cables used for connection (= Cables are not supplied with this projector.) · VGA Cable (HDB 15 pin) NOTE : · Control Cable for PS/2 port, Serial port, or ADB port When connecting cable, power cords of both a · MAC/VGA Adapter, DVI/VGA Adapter projector and external equipment should be disconnected from AC outlet. Turn a projector · DVI Cable and peripheral equipment on before computer is · BNC Cable (BNC x 5) switched on. · Audio Cables (RCA x 2) IBM-compatible computers or Macintosh computers (VGA / SVGA / XGA / SXGA/UXGA) Desktop type Laptop type Monitor Output Monitor Output MAC/VGA Adapter Set slide switches following chart below. Monitor Output Audio Output Serial port PS/2 port ADB port BNC Cable VGA Cable DVI Cable DVI/VGA Adapter Audio Cable (stereo) Control Cable Control Cable Control Cable for Serial Port for PS/2 Port for ADB Port Terminal Terminal Terminal Use one of these Control Cables corresponding with terminal of your computer.

SERIAL PORT IN (MONO) R L (MONO) Terminals of a Projector (MONO) AUDIO OUT RESET R L (MONO) (MONO) INPUT 4 R L ANALOG RGB AUDIO CONTROL PORT INPUT 3 R/C JACK USB VIDEO/Y C S-VIDEO AUDIO R L INPUT 2 SERIAL PORT OUT AUDIO R/Pr G/Y B/Pb H/HV V CONTROL PORT INPUT 1 DVI AUDIO L R CONTROL PORT MAC/VGA ADAPTER AUDIO OUT Audio Cable (stereo) ON Switches of MAC/VGA Adapter ON DIP 123456 OFF Audio Input External Audio Equipment Audio Amplifier Audio Speaker (stereo) Set switches as shown in table below depending on RESOLUTION MODE that you want to use before your turn on a projector and computer MODE SWITCHES 1 ON 2 3 4 5 6 13"MODE (640 x 480) 16"MODE (832 x 624) 19"MODE (1024 x 768) 21"MODE (1152 x 870) ON OFF OFF OFF OFF ON OFF OFF OFF ON ON OFF OFF OFF ON OFF ON OFF OFF OFF ON ON ON 14 CONNECTING PROJECTOR CONNECTING TO VIDEO EQUIPMENT Cables used for connection · Video Cable (BNC x 1, BNC x 2 or BNC x 3) · S-VIDEO Cable · Audio Cable (RCA x 2) (= Cables are not supplied with this projector.) NOTE : When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet. Turn a projector and peripheral equipment on before computer is switched on. Video Source (example) Video Cassette Recorder Video Disc Player Component video output equipment. (such as DVD player or high-definition TV source.

) Composite Video Output Separate Y/C Video Output Y C Component Video Output Pr/Cr Y Pb/Cb S-VIDEO Output Audio Output R L Video Cable Video Cable S-VIDEO Cable S-VIDEO Pr/Cr-Y-Pb/Cb DVI Audio Cable (Stereo) Video Cable Y-C SERIAL PORT IN VIDEO AV AUDIO IN INPUT 1 INPUT 3 INPUT 2 AUDIO L R CONTROL PORT (MONO) SERIAL PORT OUT AUDIO R/Pr G/Y B/Pb H/HV V CONTROL PORT R L (MONO) R/C JACK USB VIDEO/Y C S-VIDEO AUDIO R L (MONO) Terminals of a Projector AUDIO OUT RESET R L (MONO) (MONO) AUDIO OUT Audio Cable (Stereo) Audio Input External Audio Equipment Audio Amplifier Audio Speaker (stereo) INPUT 4 R L ANALOG RGB AUDIO CONTROL PORT 15 BEFORE OPERATION SIDE CONTROLS AND INDICATORS REAR INDICATORS SIDE CONTROLS FRONT INDICATORS SIDE CONTROLS ZOOM BUTTONS Used to adjust zoom. (P23) FOCUS BUTTONS Used to adjust focus. (P23) VOLUME BUTTONS Used to adjust volume. (P25) POWER ON/OFF BUTTON Used to turn a projector on or off. (P22) ZOOM FOCUS VOLUME ON-OFF MENU BUTTONS Used to open or close MENU operation.

(P20, 21) LENS SHIFT BUTTONS Used to select LENS SHIFT function. (P23) MENU LENS SHIFT INPUT 1/2 SELECT BUTTON Used to execute item selected. It is also used to expand image in DIGITAL ZOOM mode. (P34) INPUT 1/2 BUTTON Used to select input source either INPUT 1 or INPUT 2. (P26) SELECT INPUT 3/4 AUTO PC ADJ. BUTTON Use to operate AUTO PC Adjustment function. (P29) AUTO PC ADJUST IMAGE INPUT 3/4 BUTTON Used to select input source either INPUT 3 or INPUT 4. (P26) POINT BUTTONS Used to select an item or adjust value in MENU. It is also used to pan image in DIGITAL ZOOM mode. (P34) IMAGE BUTTON Used to select image level.

(P32, 37) 16 BEFORE OPERATION INDICATORS FRONT INDICATORS LAMP READY LAMP REPLACE WARNING TEMP. LAMP REPLACE INDICATOR This LAMP REPLACE indicator lights yellow when any of Projection Lamps is nearing its end, and flashes when any of them becomes out. Check which lamp needs to be replaced on Lamp Status Display. (P45-47) WARNING TEMP. INDICATOR This indicator flashes red when internal projector temperature is too high.



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(P43) **READY INDICATOR** This indicator lights green when a projector is ready to be turned on. And it flashes green in Power Management mode. (P41) **LAMP INDICATOR** This indicator is dim when a projector is turned on. And bright when a projector is in stand-by mode. **LAMP READY WARN IN TEMP. G LAM REPLAP CE REAR INDICATORS 17 BEFORE OPERATION OPERATION OF REMOTE CONTROL** Left Side **ON LASER POINTER INDICATOR** Lights red while laser beam is emitted from Laser Light Window. **ZOOM LOCK ON-OFF POWER ON-OFF BUTTON** Used to turn projector on or off. (P22) **INPUT 1/2 BUTTON FOCUS VOLUME** Used to select input source either INPUT 1 or INPUT 2. (P26) **ALL-OFF SWITCH** When using Remote Control Unit, turn this switch to "ON." And turn it to "ALL OFF" when it is not used.

This Remote Control Unit emits a laser beam as laser pointer function from Laser Light Window. When LASER button is pressed, laser light goes on. And when LASER button is being pressed for more than 1 minute or LASER button is released, light goes off. **LASER POINTER INDICATOR** lights RED and Laser is emitted with RED light to indicate laser beam is being emitted. Laser emitted is a class II laser; therefore, do not look into Laser Light Window or shine laser beam on yourself or other people.

Three marks bellow are caution labels for laser beam. **CAUTION** : Use of controls, adjustments or performance of procedures other than those specified herein may result hazardous radiation exposure. These caution labels are put on remote control. **LASER POINTER INDICATOR Laser Light Window F ALL OF MUTE D.ZOOM INPUT 1/2 INPUT 3/4 BUTTON** Used to select input source either INPUT 3 or INPUT 4. (P26) **MENU BUTTON** Used to select MENU operation. (P20, 21) **MENU INPUT 3/4 POINT BUTTON SELECT BUTTON** Used to execute item selected, or to expand or compress image in **DIGITAL ZOOM +/- mode**. (P34) It is also used as a PC mouse in Wireless Mouse Operation. (P43) Used to move a pointer on **ON-SCREEN MENU**, adjust each item, or pan image in **DIGITAL ZOOM +/- mode**. (P34) It is also used as a PC mouse in Wireless Mouse Operation.

(P43) When pressing center of this button, it works as **SELECT** button. **LASER LENS SHIFT KEYSTONE NO SHOW FREEZE LASER BUTTON** Used to operate Laser Pointer Function. Laser beam is emitted while pressing this button within 1 minute. When using this Laser Pointer for more than 1 minute, release LASER button and press it again. **AUTO PC ADJ. P-TIMER IMAGE RIGHT CLICK BUTTON** Used as a PC mouse in Wireless Mouse Operation.

(P43) **P-TIMER BUTTON** Used to operate P-TIMER function. (P24) **LASER POINTER FUNCTION 18 BEFORE OPERATION Operating Range ZOOM BUTTON** Used to adjust zoom. (P23) **LOCK MUTE D.ZOOM INPUT 1/2 ZOOM ON-OFF FOCUS VOLUME VOLUME BUTTON** Used to adjust volume. (P25) Point Remote Control Unit toward projector (Receiver Window) whenever pressing any button. Maximum operating range for Remote Control Unit is about 16.4' (5m) and 60° in front and rear of a projector. **FOCUS BUTTON** Used to adjust focus. (P23) **D.**

ZOOM BUTTON MENU INPUT 3/4 Used to select **DIGITAL ZOOM +/- mode** and resize image. (P34) 60° 16.4' (5 m) **MUTE BUTTON** Used to mute sound.(P25) **LENS SHIFT BUTTON** Used to select **LENS SHIFT** function. (P23) **LASER LENS SHIFT NO SHOW BUTTON** Used to turn picture into black image.

(P24) **KEYSTONE NO SHOW FREEZE FREEZE BUTTON** Used to freeze picture. (P24) **AUTO PC ADJ. BUTTON** Use to operate **AUTO PC Adjustment** function. (P29) **AUTO PC ADJ. P-TIMER IMAGE IMAGE BUTTON** Used to select image level. (P32, 37) **KEYSTONE BUTTON WIRED REMOTE JACK** When using as Wired Remote Control, connect Remote Control Cable to this jack. Battery installation is required when using as Wired Remote Control. Used to correct keystone distortion. (P23, 40) 16.4' (5 m) 60° Remote Control Batteries Installation 1 Remove battery compartment lid.

Press lid downward and slide it. 2 Slide batteries into compartment. Two AA size batteries For correct polarity (+ and), be sure battery terminals are in contact with pins in compartment. 3 Replace compartment lid. To insure safe operation, please observe following precautions : q Use (2) AA, UM3 or R06 type alkaline batteries. q Replace two batteries at same time. q Do not use a new battery with an used battery. q Avoid contact with water or liquid. q Do not expose Remote Control Unit to moisture, or heat. q Do not drop Remote Control Unit.

q If a battery has leaked on Remote Control Unit, carefully wipe case clean and install new batteries. q Danger of explosion if battery is incorrectly replaced. q Dispose of used batteries according to the batteries manufacturers instructions and local rules. **19 BEFORE OPERATION OPERATING ON-SCREEN MENU HOW TO OPERATE ON-SCREEN MENU** You can control and adjust this projector through **ON-SCREEN MENU**. Refer to following pages to operate each adjustment on **ON-SCREEN MENU**.

1 DISPLAY MENU Press **MENU** button to display **ON-SCREEN MENU**. **2 MOVING POINTER** Move pointer (see below) or adjust value of item by pressing **POINT** button(s) on Side Control or on Remote Control Unit. Pointer is a icon on **ON-SCREEN MENU** to select item. See figures on section "**FLOW OF ON-SCREEN MENU OPERATION**" below. **3 SELECT ITEM** Select item or set selected function by pressing **SELECT** button.

SIDE CONTROL MENU LENS SHIFT 1 WIRELESS REMOTE CONTROL POINT BUTTON Used to move Pointer **UP/ DOWN/ RIGHT/ LEFT. SELECT BUTTON** Used to select item. **AUTO PC ADJUST IMAGE FLOW OF ON-SCREEN MENU OPERATION** Display **ON-SCREEN MENU MENU BAR MENU ICON 1 2 3 4** Press **MENU** button to display **ON-SCREEN MENU (MENU BAR)**. A red frame is **POINTER**. **POINTER (red frame)** Press **POINT DOWN** button to move **POINTER**. **ITEM POINTER (red frame)** Select Menu to be adjusted Move **POINTER (red frame)** to **MENU ICON** that you want to select by pressing **POINT RIGHT / LEFT** buttons. Control or adjust item through **ON-SCREEN MENU** Press **POINT DOWN** button and move **POINTER (red frame or red arrow)** to **ITEM** that you want to adjust, and then press **SELECT** button to show **ITEM DATA**. Adjust **ITEM DATA** by pressing **POINT RIGHT / LEFT** buttons.

Refer to following pages for details of respective adjustments. **SELECT BUTTON ITEM DATA** Press **POINT LEFT/RIGHT** buttons to adjust value or set function. **20 BEFORE OPERATION MENU BAR FOR PC SOURCE** Press **MENU** button while connecting to PC input source. **IMAGE SELECT MENU GUIDE WINDOW** Shows selected item of **ONSCREEN MENU**. **SCREEN MENU** Used to adjust size of image. [Normal / True / Wide / Digital zoom +/-] (Refer to P34) **SETTING MENU** Used to change settings of projector or reset Lamp Replace Counter. (Refer to P40-42) **PC SYSTEM MENU** Used to select computer system. (Refer to P27, 28) Used to select image level among Standard, Real and Image 1 ~ 4.



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(Refer to P32) INPUT MENU Used to select input source (Input 1, Input 2, Input 3 or Input 4). Refer to P26 PC ADJUST MENU Used to adjust parameters to match with input signal format.

(Refer to P29-31) IMAGE ADJUST MENU Used to adjust computer image. [Contrast/Brightness /Color Temp. /White Balance (R/G/B) /Sharpness/Gamma /Noise Reduction /Progressive] (Refer to P33) SOUND MENU Used to adjust sound [volume, Bass or Treble], to select Built-in SP On-Off and Sound Mute. (Refer to P25) FOR VIDEO SOURCE Press MENU BUTTON while connecting to VIDEO input source. INPUT MENU Used to select input source (Input 1, Input 2, Input 3 or Input 4).

Refer to P35 IMAGE SELECT MENU Used to select image level among Standard, Cinema and Image 1 ~ 4. (Refer to P37) SCREEN MENU Used to set size of image to Normal or Wide. (Refer to P39) Same function as Menu for PC source. AV SYSTEM MENU Used to select system of selected video source. (Refer to P36) IMAGE ADJUST MENU Used to adjust picture image.

[Contrast/Brightness/Color /Tint/Color Temp. /White balance (R/G/B) /Sharpness/Gamma /Noise Reduction/Progressive] Same function as Menu for PC source. (Refer to P38, 39) 21 BASIC OPERATION TURNING ON / OFF PROJECTOR TURNING ON PROJECTOR 1 2 3 Complete peripheral connections (with Computer, VCR, etc.) before turning on projector. (Refer to "CONNECTING TO PROJECTOR" on Pages 12~15 for connecting that equipment.) Connect a projector's AC Power Cord into a wall outlet and turn MAIN ON / OFF SWITCH to ON. LAMP indicator lights RED, and READY indicator lights GREEN. Press POWER ON-OFF button on Side Control or on Remote Control Unit to ON. LAMP indicator dims, and Cooling Fans start to operate. Preparation Display appears on a screen and countdown starts.

Signal from source appears after 30 seconds. Current Input position and Lamp status are also displayed on screen for 5 seconds. (Refer to "LAMP MANAGEMENT" on page 45.) LAMP STATUS INPUT 1 1 2 3 4 30 Preparation Display disappears after 30 seconds. TURNING OFF PROJECTOR 1 2 3 Press POWER ON-OFF button on Side Control or on Remote Control Unit, and a message "Power off?" appears on a screen. Press POWER ON-OFF button again to turn off projector. LAMP indicator lights bright and READY indicator turns off. After approximate 90 seconds, READY indicator will light green again and projector may be turned on by pressing POWER ON-OFF button. Cooling fans will operate for approximate 2 minutes after projector is turned off.

To power down completely, turn MAIN ON/OFF SWITCH to OFF and disconnect AC Power Cord.

TO MAINTAIN LIFE OF LAMP, ONCE YOU TURN PROJECTOR ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF. Power off? Message disappears after 4 seconds. When Power Management function is ON, projector detects signal interruption and turns off Projection Lamp automatically.

Refer to "Power Management" on pages 40 and 41. When WARNING TEMP.

indicator flashes red, projector is automatically turned off. Wait at least 5 minutes before turning on projector again. When both WARNING TEMP. and READY indicators to flash, follow procedures below: 1. Turn MAIN ON / OFF SWITCH to OFF.

2. Turn a projector on again. When WARNING TEMP. indicator continues to flash, follow procedures below: 1. Turn MAIN ON / OFF SWITCH to OFF and disconnect AC Power Cord from an AC outlet. 2. Check Air Filters for dust accumulation. 3. Clean Air Filters. (See "AIR FILTER CARE AND CLEANING" section on page 44.

) 4. Turn a projector on again. If WARNING TEMP. indicator should still continue to flash, contact sales dealer where you purchased this projector or service center. 22 BASIC OPERATION ADJUSTING SCREEN ZOOM ADJUSTMENT 1 2 Press ZOOM v/w button on Side Control or on Remote Control Unit. Message "Zoom" is displayed. Press ZOOM v button to make image larger, and press ZOOM w button to make image smaller. Zoom Message disappears after 4 seconds. FOCUS ADJUSTMENT 1 2 Press FOCUS v/w button on Side Control or on Remote Control Unit. Message "Focus" is displayed. Adjust focus of image by pressing FOCUS v/w button(s). Focus Message disappears after 4 seconds. LENS SHIFT ADJUSTMENT 1 2 Press the LENS SHIFT button on Side Control or on the Remote Control Unit. Message "Lens shift" is displayed. Press POINT UP button to move image up, press POINT DOWN button to move image down, press POINT LEFT to move image left and press POINT RIGHT to move image right.

Lens shift Message disappears after 4 seconds. KEYSTONE ADJUSTMENT If a projected picture has keystone distortion, correct image with KEYSTONE adjustment. 1 2 Press KEYSTONE v/w button on Remote Control Unit or select Keystone on SETTING menu. (Refer to page 40.) Keystone dialog box appears.

Correct keystone distortion by pressing KEYSTONE v/w button or POINT UP/DOWN button(s). Press KEYSTONE v button or POINT UP button to reduce upper part of image, and press KEYSTONE w button or POINT DOWN button to reduce lower part. Reduce upper width with KEYSTONE v button or POINT UP button. Reduce lower width with KEYSTONE w button or POINT DOWN button. 23 BASIC OPERATION PICTURE FREEZE FUNCTION Press FREEZE button on Remote Control Unit to freeze picture on-screen. To cancel FREEZE function, press FREEZE button again or press any other button except POINT / SELECT / RIGHT CLICK / LASER button. NO SHOW FUNCTION Press NO SHOW button on Remote Control Unit to black out a image. To restore to normal, press NO SHOW button again or press any other button except POINT / SELECT / RIGHT CLICK / LASER button. No show Message disappears after 4 seconds. P-TIMER FUNCTION Press P-TIMER button on Remote Control unit.

Timer display "00 : 00" appears on a screen and timer starts to count time (00 : 00 ~ 59 : 59). To stop P-TIMER display, press P-TIMER button. And then, press P-TIMER button again to cancel P-TIMER function. 24 BASIC OPERATION SOUND ADJUSTMENT DIRECT OPERATION Volume Press VOLUME (+) button(s) on Side Control or on Remote Control Unit to adjust volume. Volume dialog box appears on screen for a few seconds. (+) button to increase volume, and (-) button for decreasing. Mute Press MUTE button on Remote Control Unit to cut off sound. To restore sound to its previous level, press MUTE button again or press Volume (+) button(s). Press MUTE button to set Mute function On or Off. Display disappears after 4 seconds.

Indicates roughly level of volume. MENU OPERATION 1 2 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to SOUND Menu icon. Press POINT DOWN button to move a red frame pointer to item that you want to select, and then press SELECT button. Volume SOUND MENU SOUND Menu icon Indicates roughly level of volume.

On To increase volume, press POINT RIGHT button, and press POINT LEFT button for decreasing.



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20 58.30 72.0 75.08 75.
06 70.40 58.60 60.00 59.98 60.
01 67.19 76.107 60.02 75.025 60.
00 65.20 75.60 43.00 47.00 60.01 72.00 66.00 43.35 60.18 85.

024 60.00 75.08 75.08 60.00 65.00 70.00 75.00 60.00 30.00 30.

00 25.00 When a input signal is digital from DVI terminal, refer to chart below. ON-SCREEN DISPLAY RESOLUTION H-Freq. (kHz) V-Freq. (Hz) ON-SCREEN DISPLAY RESOLUTION H-Freq.

(kHz) V-Freq. (Hz) D-VGA D-SVGA D-XGA D-SXGA 1 640 x 480 800 x 600 1024 x 768 1280 x 1024 31.469 37.879 48.363 63.

981 59.940 60.317 60.004 60.020 D-SXGA 2 D-SXGA 3 D-UXGA 1280 x 1024 1280 x 1024 1600 x 1200 60.276 31.65 75.00 58.069 29.8 60.

00 NOTE : Specifications are subject to change without notice. 28 COMPUTER INPUT PC ADJUSTMENT AUTO PC ADJUSTMENT Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots and Picture Position to conform to your computer. Auto PC Adjustment function can be operated as follows. Auto PC Adj. 1 2 Press MENU button and ON-SCREEN MENU will appear. @@Press POINT DOWN button to move a red frame pointer to AUTO PC Adj. icon and then press SELECT button twice. This Auto PC Adjustment can be also executed by pressing AUTO PC ADJ. button on Side Control or on Remote Control Unit. PC ADJUST MENU PC ADJUST Menu icon Move a red frame pointer to AUTO PC Adj.

icon and press SELECT button. Store adjustment parameters. Adjustment parameters from Auto PC Adjustment can be memorized in this projector.

@@@Adjustment dialog box will appear. Press POINT LEFT/RIGHT button to adjust value.

@@@Horizontal Adjusts horizontal picture position. Press POINT LEFT/RIGHT button(s) to adjust position. Vertical Adjusts vertical picture position. Press POINT LEFT/RIGHT button(s) to adjust position. @@Clamp Adjusts clamp position.

When a image has a dark bar(s), try this adjustment. Current mode Press POINT LEFT/RIGHT button to adjust value. @@Select resolution at Display area dialog box. @@@@NOTE : Fine sync, Display area, Display area H, Display area V and Full screen cannot be adjusted when "RGB", "480p", "575p", "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P27). Press SELECT button at Display area icon and Display area dialog box appears. Display area Press POINT LEFT /RIGHT button(s) to adjust value and then press SELECT button. To store adjustment data. This Mode has parameters being stored. 3 Store To store adjustment parameters, move a red frame pointer to Store icon and then press SELECT button. Move a red arrow pointer to any of Mode 1 to 5 that you want to store and then press SELECT button.

Mode free To clear adjustment parameters previously set, move a red frame pointer to Mode free icon and then SELECT button. Move a red arrow pointer to Mode that you want to clear and then press SELECT button. Other icons operates as follows. Reset Reset all adjust parameters on adjustment dialog box to previous figure. Quit Closes PC ADJUST MENU. To clear adjustment data. Vacant Mode Shows values of "Total dots," "Horizontal," "Vertical," "Display area H," and "Display area V." Store icon Close this dialog box. Mode free icon 31 COMPUTER INPUT PICTURE IMAGE ADJUSTMENT IMAGE LEVEL SELECT (DIRECT) Select image level among Standard, Real, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Side Control or on Remote Control Unit. Standard Normal picture level preset on this projector.

Real Picture level with improved halftone for graphics. IMAGE 1~4 User preset picture adjustment in IMAGE ADJUST Menu (P33). IMAGE button Standard Real Image 1 Image 2 Image 3 Image 4 IMAGE LEVEL SELECT (MENU) 1 2 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon. Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button.

Standard IMAGE SELECT MENU IMAGE SELECT Menu icon Normal picture level preset on this projector. Real Picture level with improved halftone for graphics. IMAGE 1~4 User preset picture adjustment in IMAGE ADJUST Menu (P33). Level being selected. Move a red frame icon to level and press SELECT button.

32 COMPUTER INPUT IMAGE LEVEL ADJUSTMENT 1 2 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to IMAGE ADJUST Menu icon. @@Level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s). Contrast IMAGE ADJUST MENU IMAGE ADJUST Menu icon Move a red frame pointer to item to be selected and then press SELECT button. Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.) Brightness Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.) Color temp.

Press either POINT LEFT button or POINT RIGHT button to Color temp. level that you want to select. (XLow, Low, Mid or High) White balance (Red) Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.) White balance (Green) Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.) White balance (Blue) Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.) Sharpness Press POINT LEFT button to soften image, and POINT RIGHT button to sharpen image. (From 0 to 15.

) Gamma Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.) Noise reduction Press POINT LEFT/RIGHT button(s) to change noise reduction mode. Dialog box display is changed to "On" to reduce noise (rough parts) of image. Press POINT LEFT/RIGHT button(s) again, to change noise reduction mode to off.

Progressive Press POINT LEFT/RIGHT button(s) to change progressive scan mode. Dialog box display is changed to "Off" and progressive scan mode to off. Press POINT LEFT/RIGHT button(s) again, progressive scan mode to on. Selected Image level Press POINT LEFT/RIGHT buttons to adjust value. Store icon Press SELECT button at this icon to store adjustment.

Image Level Menu Move a red frame pointer to any of Image 1 to 4 where you want to set and then press SELECT button. 3 Store To store manually preset image, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to Image 1 to 4 where you want to set and then press SELECT button. Other icons operates as follows. Reset Reset all adjustment to previous figure. Quit Closes IMAGE MENU. NOTE : q Noise reduction can be operated when "RGB", "480p", "575p", "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM MENU (P27) only.



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q Progressive can be operated when "RGB", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM MENU (P27) only. 33 COMPUTER INPUT PICTURE SCREEN ADJUSTMENT This projector has a picture screen resize function, which enables you to display desirable image size.

1 2 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon. Press POINT DOWN button and move a red frame pointer to function that you want to select and then press SELECT button. Normal SCREEN MENU SCREEN Menu icon Move a red frame to function and press SELECT button. Provides image to fit screen size. True Provides image in its original size. When original image size is larger than screen size (1024 x 768), this projector enters "Digital zoom +" mode automatically. Wide Provides image to fit wide video aspect ratio (16 : 9) by expanding image width uniformly. This function can be used for providing a squeezed video signal at 16 : 9. Digital zoom + When Digital zoom + is selected, ON-SCREEN MENU disappears and message "D. Zoom +" is displayed. Press SELECT button to expand image size. And press POINT UP/DOWN/LEFT/RIGHT button(s) to pan image. Panning function can work only when image is larger than screen size. A projected image can be also expanded by pressing D. ZOOM v button on Remote Control Unit. Digital Zoom When Digital zoom + is selected, ON-SCREEN MENU disappears and message "D. Zoom +" is displayed. Press SELECT button to compress image size. A projected image can be also compressed by pressing D. ZOOM w button on Remote Control Unit. To cancel Digital Zoom +/- mode, press any button except D.ZOOM v/w, SELECT, POINT and AUTO PC ADJ. buttons. NOTE q Picture screen adjustment cannot be operated when "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P27). q True and Digital zoom +/- cannot be operated when "RGB", "480p" or "575p" is selected on PC SYSTEM Menu (P27). q This projector cannot display any resolution higher than 1600 X 1200. If your computer's screen resolution is higher than 1600 X 1200, reset resolution to lower before connecting projector. q Image data in other than XGA (1024 x 768) is modified to fit screen size in initial mode. q Panning function may not operate properly if computer system prepared on PC ADJUST Menu is used.

34 VIDEO INPUT SELECTING INPUT SOURCE WHEN SELECT INPUT 2 (5 BNC SLOT) When connect component video output (Cr, Y, Cb or Pr, Y, Pb) from video equipment to R/Pr, G/Y and B/Pb jacks. INPUT MENU 1 2 3 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon. Press POINT DOWN button to move a red arrow pointer to Input 2 and then press SELECT button. Source Select Menu will appear. Press POINT DOWN button and a red-arrow icon will appear. Move arrow to "Y, Pb/Cb, Pr/Cr" and then press SELECT button. INPUT Menu icon Move a pointer (red arrow) to Input 2 and press SELECT button. Input 2 Source Select Menu Move a pointer to Y, Pb/Cb, Pr/Cr and press SELECT button. WHEN SELECT INPUT 3 (AV TERMINAL) When connecting to those equipment, select a type of Video source in SOURCE SELECT (VIDEO) Menu.

INPUT MENU 1 2 3 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon. Press POINT DOWN button to move a red arrow pointer to Input 3 and then press SELECT button. Source Select Menu will appear. Move a pointer to source that you want to select and then press SELECT button. When video input signal is connected to VIDEO jack, select Video. When video input signal is connected to S-VIDEO jack, select S-Video. When video input signal is connected to VIDEO/Y, C jacks, select Y, C. INPUT Menu icon Move a pointer (red arrow) to Input 3 and press SELECT button. Input 3 Source Select Menu (VIDEO) Move a pointer to source and press SELECT button.

Video S-Video Y, C 35 VIDEO INPUT SELECTING VIDEO SYSTEM 1 2 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to AV SYSTEM Menu icon. Press POINT DOWN button to move a red arrow pointer to system that you want to select and then press SELECT button. VIDEO JACK OR S-VIDEO JACK Auto Projector automatically detects incoming Video system, and adjusts itself to optimize its performance. When Video System is PAL-M or PAL-N, select system manually first. PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N If projector cannot reproduce proper video image, it is necessary to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N. AV SYSTEM MENU (VIDEO OR S-VIDEO) AV SYSTEM Menu icon This box indicates system being selected. Move pointer to system and press SELECT button.

Y, Pb/Cb, Pr/Cr JACKS Auto Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance. When Video System is 1035i, 1080i50 or 1080i60, select system manually first. COMPONENT VIDEO SIGNAL FORMAT If projector cannot reproduce proper video image, it is necessary to select a specific component video signal format among 480i, 575i, 480p, 575p, 720p, 1035i, 1080i50 or 1080i60. AV SYSTEM MENU (COMPONENT VIDEO) Auto 1080i60 1080i50 1035i 720p 575p 480p 575i 480i AV SYSTEM Menu icon This box indicates system being selected. Move pointer to system and press SELECT button. 36 VIDEO INPUT PICTURE IMAGE ADJUSTMENT IMAGE LEVEL SELECT (DIRECT) Select image level among Standard, Cinema, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Side Control or on Remote Control Unit. Standard Normal picture level preset on this projector. Cinema Picture level adjusted for picture with fine tone. IMAGE 1~4 User preset picture adjustment in IMAGE ADJUST Menu (P39). IMAGE button Standard Cinema Image 1 Image 2 Image 3 Image 4 IMAGE LEVEL SELECT (MENU) 1 2 Press MENU button and ON-SCREEN MENU will appear.

Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon. Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button. Standard IMAGE SELECT MENU IMAGE SELECT Menu icon Normal picture level preset on this projector. Cinema Picture level adjusted for picture with fine tone. IMAGE 1~4 User preset picture adjustment in IMAGE ADJUST Menu (P39). Level being selected. Move a red frame pointer to level and press SELECT button. 37 VIDEO INPUT IMAGE LEVEL ADJUSTMENT 1 2 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to IMAGE ADJUST Menu icon. @@Level of each item is displayed.

Adjust each level by pressing POINT LEFT/RIGHT button(s).



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