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

User manual SHARP AQUOS
User guide SHARP AQUOS
Operating instructions SHARP AQUOS
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Instruction manual SHARP AQUOS

SHARP AQUOS

LC-40LE830U
LC-46LE830U
LC-52LE830U
LC-60LE830U

LIQUID CRYSTAL TELEVISION
TÉLÉVISEUR ACL
TELEVISOR CON PANTALLA
DE CRISTAL LIQUIDO

OPERATION MANUAL
MODE D'EMPLOI
MANUAL DE OPERACIÓN



ENGLISH
FRANÇAIS
ESPAÑOL



NOM 1245 NYCE

IMPORTANT : Please read this operation manual before starting operating the equipment.
IMPORTANT : Veuillez lire ce mode d'emploi avant de commencer à utiliser l'appareil.
IMPORTANTE : Lea este manual de operación antes de comenzar a operar el equipo.



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Manual abstract:

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. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment. 1 ENGLISH IMPORTANT INFORMATION CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections. DECLARATION OF CONFORMITY: SHARP LIQUID CRYSTAL TELEVISION, MODEL

LC-40LE830U/LC-46LE830U/LC-52LE830U/LC-60LE830U This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. **RESPONSIBLE PARTY: SHARP ELECTRONICS CORPORATION Sharp Plaza, Mahwah, New Jersey 07495-1163 TEL:**

1-800-BE-SHARP For Business Customers: URL [http://www.](http://www.sharpusa.com)

sharppusa.com INFORMATION: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. FCC Compliance Statement This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Wireless Radio For product available in the USA/Canada market, only channel 111 can be operated. Selection of other channels is not possible. This device is going to be operated in 5.155.25GHz frequency range, it is restricted in indoor environment only. Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. Industry Canada Statement This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device. This device and its antenna(s) must not be colocated or operation in conjunction with any other antenna or transmitter. Wireless Radio For product available in the USA/Canada market, only channel 111 can be operated. Selection of other channels is not possible. The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology. Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. IC Radiation Exposure Statement: This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical." This product qualifies for ENERGY STAR when "Home" is selected for "TV Location". Setting "TV Location" to "Home" allows the TV to achieve an energy-saving status for household use. 2 DEAR SHARP CUSTOMER Thank you for your purchase of the Sharp Liquid Crystal Television. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Instructions carefully before using this product.

IMPORTANT SAFETY INSTRUCTIONS Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your Liquid Crystal Television, please read the following precautions carefully before using the product. 1) 2) 3) 4) 5) 6) 7) 8) 9) Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not defeat the safety purpose of the polarized or grounding-type plug.

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



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Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Only use attachments/accessories specified by the manufacturer. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Unplug this apparatus during lightning storms or when unused for long periods of time. Refer all servicing to qualified service personnel.

10) 11) 12) 13) 14) Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15) Power Sources--This product 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 supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions. 16) Overloading--Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

17) Object and Liquid Entry--Never push objects of any kind into this product through openings 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 product. 18) Damage Requiring Service--Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a) When the AC cord or plug is damaged, b) If liquid has been spilled, or objects have fallen into the product, c) If the product has been exposed to rain or water, d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation, e) If the product has been dropped or damaged in any way, and f) When the product exhibits a distinct change in performance - this indicates a need for service. 19) Replacement Parts--When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock, or other hazards. 20) Safety Check--Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. 21) Wall or ceiling mounting--When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. 3 IMPORTANT SAFETY INSTRUCTIONS · Outdoor Antenna Grounding -- If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70 ANTENNA LEAD IN WIRE GROUND CLAMP ANTENNA DISCHARGE UNIT (NEC SECTION 810-20) GROUNDING CONDUCTORS (NEC SECTION 810-21) GROUND CLAMPS POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H) ELECTRIC SERVICE EQUIPMENT NEC -- NATIONAL ELECTRICAL CODE · Water and Moisture -- Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like. · Stand -- Do not place the product on an unstable cart, stand, tripod or table. Placin these may deform the cabinet and cause the paint to peel off. · Do not apply insecticides or other volatile liquids. Also, do not allow the cabinet to remain in contact with rubber or vinyl products for a long period of time.

Plasticizers inside the plastic may cause the cabinet to deform and cause the paint to peel off. 4 IMPORTANT SAFETY INSTRUCTIONS Caring for the front panel · Turn off the main power and unplug the AC cord from the wall outlet before handling. · Gently wipe the surface of the front panel with a soft cloth (cotton, flannel, etc.). To protect the front panel, do not use a dirty cloth, liquid cleaners, or a chemical cloth (wet/dry sheet type cloth, etc.). This may damage the surface of the front panel. · Wiping with a hard cloth or using strong force may scratch the surface of the front panel. · Use a soft damp cloth to gently wipe the front panel when it is really dirty. (It may scratch the surface of the front panel when wiped strongly.)

· If the front panel is dusty, use an anti-static brush, which is commercially available, to clean it. · To avoid scratching the frame or screen, please use a soft, lint free cloth for cleaning. Approved cleaning cloths are available directly from Sharp in single (00Z-LCD-CLOTH) or triple (00Z-LCD-CLOTH-3) packs. Call 1-800-BE-SHARP for ordering, or VISIT <http://www.sharpusa.com>.

com/SharpDirect. CHILD SAFETY: It Makes A Difference How and Where You Use Your Flat Panel Display Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind: THE ISSUE · The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations. · Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury. THIS MANUFACTURER CARES! · The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY · One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display. · Carefully read and understand all enclosed instructions for proper use of this product. · Don't allow children to climb on or play with furniture and television sets. · Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers. · Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display.



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Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down. Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children. WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS: Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL). Follow all instructions supplied by the display and wall mount manufacturers.

If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation. Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer. A minimum of two people are required for installation. Flat panel displays can be heavy. Note: CEA is the preeminent trade association promoting growth in the \$161 billion U.S. consumer electronics industry. More than 2,200 companies enjoy the benefits of CEA membership, including legislative advocacy, market research, technical training and education, industry promotion and the fostering of business and strategic relationships.

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..... 81 Dimensional Drawings · The dimensional drawings for the LCD TV set are shown on the inside back cover. On-Screen Display Menu On-Screen Display Menu Operation .

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... 38-40 · The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.

· The examples used throughout this manual are based on the LC-60LE830U model. 6 Supplied Accessories Make sure the following accessories are provided with the product. LC-40LE830U LC-46LE830U LC-52LE830U LC-60LE830U Remote control unit (g1) Page 9 "AAA" size battery (g2) Page 10 Cable tie (g1) Page 9 Stand unit (g1) Page 7 Stand unit (g1) Page 8 Stand unit (g1) Page 8 Operation manual (g1) Connection guide (g1) · Always use the AC cord supplied with the TV. · The illustrations above are for explanation purposes and may vary slightly from the actual accessories. QUICK REFERENCE

Attaching the Stand · Before attaching (or detaching) the stand, unplug the AC cord.

· Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged. CAUTION · Attach the stand in the correct direction. · Do not remove the stand from the TV unless using an optional wall mount bracket to mount it. · Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over. LC-40LE830U 1 Confirm that there are 7 screws (3 long screws, 3 middle screws and 1 short screw) supplied with the stand unit.



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4 Insert and tighten the 3 screws into the 3 holes on the rear of the stand unit. Middle screws 2 Attach the supporting post for the stand unit onto the base as shown below. · The supporting post attaches to the base at an offcentered location on the base.

Be sure to attach the supporting post in the direction indicated below and attach the stand to the TV with the wider side of the base facing forward. 2 Long screws 5 1 Insert the stand cover. 2 Insert the screw to secure the stand cover. Short screw Forward 1 2 1 3 Insert the stand into the openings on the rear of the TV. Soft cushion · To detach the stand, perform the steps in reverse order. 7 QUICK REFERENCE LC-46LE830U/LC-52LE830U 1 Confirm that there are 9 screws (4 long screws, 4 middle screws and 1 short screw) supplied with the stand unit. Attach the supporting post for the stand unit onto the base as shown below. · The supporting post attaches to the base at an offcentered location on the base. Be sure to attach the supporting post in the direction indicated below and attach the stand to the TV with the wider side of the base facing forward. 2 Long screws 4 Insert and tighten the 4 screws into the 4 holes on the rear of the stand unit.

Middle screws 2 5 1 Insert the stand cover. Forward 1 2 Insert the screw to secure the stand cover. Short screw 2 1 3 Insert the stand into the openings on the rear of the TV. Soft cushion · To detach the stand, perform the steps in reverse order. LC-60LE830U 1 Confirm that there are 10 screws (4 long screws, 4 middle screws and 2 short screws) supplied with the stand unit.

Attach the supporting post for the stand unit onto the base as shown below. · The supporting post attaches to the base at an offcentered location on the base. Be sure to attach the supporting post in the direction indicated below and attach the stand to the TV with the wider side of the base facing forward. 2 Long screws 4 Insert and tighten the 4 screws into the 4 holes on the rear of the stand unit. Middle screws 2 5 1 Insert the stand cover.

1 2 Insert the 2 screws to secure the stand cover. Short screws 2 Forward 3 Insert the stand into the openings on the rear of the TV. Soft cushion 1 · To detach the stand, perform the steps in reverse order. 8 QUICK REFERENCE QUICK INSTALLATION TIPS Using the Remote Control Unit Use the remote control unit by pointing it towards the remote control sensor on the TV. Objects between the remote control unit and the remote control sensor may prevent proper operation. 1 2 Attach your antenna to the back of the television. (See page 10.) Connect the AC plug for the television into the AC outlet. 2 1 1 AC outlet ·

Place the TV close to the AC outlet, and keep the power plug within reach. · TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UNINSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.

Remote control sensor 30° 30° 30° 30° * 17' (5 m) 3 Bundle the cords properly with the cable tie. * The angle is 20° when the stand is attached to the LC40LE830U/LC-46LE830U/LC-52LE830U model. Cautions regarding the remote control unit · Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity. · Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the remote control unit. · The remote control unit may not work properly if the remote control sensor on the TV is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the TV, or operate the remote control unit closer to the remote control sensor. 4 When turning on the TV for the first time, press POWER on the touch sensor panel on the front of the TV. POWER 5 Insert the batteries into the remote control unit.

(See page 10.) IMPORTANT: IF THE UNIT DOES NOT POWER ON - UNPLUG THE TELEVISION FROM THE OUTLET AND REPEAT THE INSTALLATION STEPS. IF YOU STILL ENCOUNTER NO POWER, PLEASE CONTACT US AT 1-800-BE-SHARP. · Speakers cannot be detached from the TV. · The TV can be rotated up to 20 degrees to right and left.

9 Preparation Antennas To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the TV set. For connecting the antenna cable to the TV, use commercially available cables. Connecting Antenna Cable · Connect the antenna cable to the TV using one of the methods in the illustration as shown (1, 2, 3 or 4).

1 Cable without a CATV converter 2 VHF/UHF antenna 75-ohm coaxial cable (round) Cable TV lead-In Home Antenna terminal (75-ohm) Coaxial cable Home Antenna terminal (75-ohm) Coaxial cable 3 Combination VHF/ UHF antenna 75-ohm coaxial cable (round) or 300-ohm twin-lead cable (flat) 300/75-ohm adapter 4 Separate VHF/UHF antenna VHF ANTENNA UHF ANTENNA 300-ohm twin-lead cable IN OUT 300-ohm twin-lead cable or 75-ohm coaxial cable Combiner To TV antenna terminal 1. A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools. 2. A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75-ohm terminal through a 300/75-ohm adapter. F-type connector 75-ohm coaxial cable (round) 300-ohm twin-lead cable (flat) F-type connector should be finger-tightened only. When connecting the RF cable to the TV set, do not tighten F-type connector with tools. If tools are used, it may cause damage to your TV set. (The breaking of internal circuit, etc.) NOTICE F-type connector 75-ohm coaxial cable Installing Batteries in the Remote Control Unit If the remote control fails to operate TV functions, replace the batteries in the remote control unit. 2 Insert two "AAA" size batteries (supplied with 3 Close the battery cover.

1 Open the battery cover. the product). · Place the batteries with their terminals corresponding to the (e) and (f) indications in the battery compartment. CAUTION Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below. · Do not mix batteries of different types. Different types of batteries have different characteristics. · Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries. · Remove batteries as soon as they are worn out.

Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.



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· The batteries supplied with this product may have a shorter life expectancy due to storage conditions. · If you will not be using the remote control unit for an extended period of time, remove batteries from it. 10 Part Names TV (Front) Center Icon illumination (See page 33.)
) OPC sensor *1 Remote control sensor VOL/CH / INPUT MENU POWER *2 *1 OPC: Optical Picture Control (See page 27.) *2 See pages 18 and 25 for using the touch sensor panel. TV (Rear) *1 RS-232C terminal PC IN terminal VIDEO 2 terminals VIDEO 1 terminals COMPONENT terminals *1 AUDIO OUT terminal *1 USB 1 terminal HDMI 1 terminal ARC: Audio Return Channel (See pages 52 and 53.) HDMI 2 terminal USB 2 terminal ETHERNET terminal Antenna/ Cable in DIGITAL AUDIO OUTPUT terminal AUDIO IN terminal (shared for PC IN and HDMI 1) *2 HDMI 3 terminal HDMI 4 terminal
*1 See pages 13 to 17 and 52 for external equipment connection. *2 See page 57 for details on the Audio Select function.
11 Part Names Remote Control Unit 1 18 19 2 3 4 5 6 20 21 1 2 POWER: Switch the TV power on or enter standby. (See page 18.) TV, STB, DVD-VCR, AUDIO: Switches the remote control for TV, STB, DVD, BD, VCR and AUDIO operation. (See pages 50 to 51 for details.) * To enter the code registration mode, you need to press an appropriate button (STB, DVD-VCR or AUDIO) and DISPLAY at the same time. 3 4 External equipment operational buttons: Operate the external equipment. OPTION: Display the Link Operation Menu screen. This button will function only when AQUOS LINK is used. (See pages 52 to 55 for details.) SLEEP: Set the sleep timer.

(See page 21.) 09: Set the channel. (See page 21.) · (DOT): (See pages 21 and 50.) CC: Display captions from a closed-caption source. (See page 23.) AV MODE: Select an audio or video setting. (See page 22.) 5 6 7 8 9 7 8 9 10 11 12 13 14 15 16 17 22 23 24 25 26 27 10 MUTE: Mute the sound. (See page 21.)
) 11 VOL/CH: Set the volume. (See page 21.) 12 MENU: Display the menu screen. (See page 25.) 13 AQUOS NET: Switches the display to the TVkWeb, Web or TV screen.

(See pages 62 to 68 for details.) 14 a/b/c/d, ENTER: Select a desired item on the screen. 15 EXIT: Turn off the menu screen. 16 FAVORITE CH: Set the favorite channels. (See page 35.)
) 17 A, B, C, D: Select 4 preset favorite channels in 4 different categories. (See page 35.) While watching, you can toggle the selected channels by pressing A, B, C and D. 18 DISPLAY: Display the channel information. 28 29 19 POWER (SOURCE): Turns the power of the external equipment on and off. 20 FREEZE: Set the still image. Press again to return to normal screen. (See page 21.) 21 POWER SAVING: Select Power Saving settings. (See page 22.)

) 22 ENT: Jumps to a channel after selecting with the 09 buttons. 23 FLASHBACK: Return to the previous channel or external input mode. (See page 21.) 24 VIEW MODE: Select the screen size. (See pages 24 and 56.) 25 INPUT: Select a TV input source. (TV, HDMI1, HDMI2, HDMI3, HDMI4, COMPONENT, VIDEO1, VIDEO2, PC IN, Home Network (DLNA), USB) (See pages 13 and 22.) · When using the remote control unit, point it at the TV. 26 CHr/s: Select the channel. (See page 21.)

) 27 APPS: Display the application window. (See page 22.) 28 RETURN: Return to the previous menu screen. 29 FAV APP 1, 2, 3: You can assign your favorite applications to these buttons. (See page 35.)

) 12 Introduction to Connections Experiencing HD Images An HDTV without an HD source is just an ordinary TV. To enjoy HD images on the TV, you should get HD programming from the following: · Over-the-air broadcasting via HD quality antenna · HD cable/satellite subscription · HD compatible external equipment · For information on updating to HD programming, ask your cable/satellite service provider. Types of Connection Image quality differs depending on the terminal used. To enjoy clearer images, check the output terminals of your external equipment and use its appropriate terminals for higher quality images. For connecting the TV to external equipment, use commercially available cables.

· The illustrations of the terminals are for explanation purposes and may vary slightly from the actual products. Image Quality HD Quality Terminal on external equipment Cable HDMI-certified cable Terminal on the TV Page 14 Ø 3.5 mm stereo minijack cable AUDIO Page 14 DVI OUT DVI-HDMI conversion cable Component video cable Page 15 Audio cable Standard Quality AV cable Page 15 Displaying an External Equipment Image To view external source images, select the input source by pressing INPUT on the remote control unit or on the TV. Example Input AIR 1 Press INPUT. · The INPUT list screen displays. Menu 2 Press a/b to select the input source. · You can also select the input source by pressing INPUT. Each time INPUT is pressed, the input source toggles. HDMI1 TV HDMI2 HDMI3 HDMI4 INPUT TV INPUT HDMI1 HDMI2 HDMI3 · An image from the selected source automatically displays. · If the corresponding input is not plugged in, you cannot change the input.

Be sure to connect the equipment beforehand. 13 Connecting to External Equipment You can connect many types of external equipment to your TV. To view external source images, select the input source from INPUT on the remote control unit or on the TV. (See pages 13 and 22.) For connecting the TV to external equipment, use commercially available cables. CAUTION · To protect equipment, always turn off the TV before connecting any external equipment. · Please read the relevant operation manual (Blu-ray disc player, etc.) carefully before making connections. Connecting a Blu-ray Disc/DVD Player or HD Cable/Satellite Set-top Box When using HDMI cable (HDMI 1, 2, 3 or 4): The HDMI (High Definition Multimedia Interface) terminal is an audio-video interface that enables a connection for audio and video signals using a single cable. The HDMI terminal supports high-resolution video input. · Blu-ray disc player · DVD player · HD cable/satellite set-top box Back panel vertical inputs HDMI-certified cable HDMI OUT · To enjoy 1080p display capability, connect your external equipment using an HDMI-certified cable or a component cable and set the equipment to 1080p output. · Supported Audio format: Linear PCM, sampling rate 32/44.1/48kHz. · When you connect external equipment using a DVI-HDMI conversion cable or when you connect ARC-compatible equipment, use HDMI 1. When using DVI-HDMI conversion cable (HDMI 1): · Blu-ray disc player · DVD player · HD cable/satellite set-top box Back panel horizontal inputs Ø 3.
5 mm stereo minijack cable Back panel vertical inputs DVI-HDMI conversion cable AUDIO DVI OUT · When using a DVI-HDMI conversion cable, you should make an analog audio connection.



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In this case, in addition to connecting a DVI-HDMI conversion cable to the HDMI 1 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". (See page 57.)

14 Connecting to External Equipment When using Component cable (COMPONENT):
 · Blu-ray disc player · DVD player · HD cable/satellite set-top box AUDIO-L (White) Back panel surface inputs AUDIO-R (Red) Audio cable PR (Red) Component video cable Y (Green) PB (Blue) COMPONENT OUT · To enjoy 1080p display capability, connect your external equipment using an HDMI-certified cable or a component cable and set the equipment to 1080p output.

· See page 14 for connecting a Blu-ray disc player, DVD player or an HD cable/satellite set-top box to the HDMI terminal. Connecting a VCR, Game Console, Camcorder or Cable/Satellite Set-top Box When using Composite cable (VIDEO 1 or 2):
 · Game console · Camcorder · VCR · Cable/Satellite set-top box AUDIO-R (Red) AV cable AUDIO-L (White) VIDEO (Yellow) Back panel surface inputs

15 Connecting to External Equipment Connecting an Audio Amplifier When using optical fiber cable: It is possible to output audio through the DIGITAL AUDIO OUTPUT terminal. (See page 32 for details.) PCM audio outputs from the terminal. Optical fiber cable OPTICAL DIGITAL AUDIO INPUT Back panel horizontal inputs · Depending on the connected equipment, audio will not output from the DIGITAL AUDIO OUTPUT terminal in HDMI connection. In this case, set the audio formats of the connected equipment to PCM, 32/44.1/48 kHz. · Optical digital audio will be output in 2-ch stereo when it is from the external equipment connected to the TV using an HDMI cable. When using audio cable: Back panel vertical inputs Audio cable ANALOG AUDIO IN · See page 32 for details on the Output Select function. Connecting an AV Amplifier HD Cable/Satellite set-top box HDMI-certified cable HDMI OUT Back panel vertical inputs HDMI IN HDMI OUT · If the image is not in sync with the audio, check the settings of the connected surround system.

· Letting the TV output the audio to an AV amplifier: - When you connect ARC-compatible equipment, use the HDMI 1 terminal. - If the equipment to be connected is not compatible with the ARC, connect an optical fiber cable.

16 Connecting to External Equipment Connecting a PC Refer to page 57 for a list of PC signals compatible with the TV. When using HDMI cable (HDMI 1, 2, 3 or 4): Back panel vertical inputs HDMI-certified cable HDMI OUT · Depending on the board, only video signals may be output. In this case, in addition to connecting an HDMI-certified cable to the HDMI 1 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". (See page 57.) · The HDMI terminals only support digital signal.

When using DVI-HDMI conversion cable (HDMI 1): Ø 3.5 mm stereo minijack cable AUDIO Back panel horizontal inputs DVI OUT Back panel vertical inputs DVI-HDMI conversion cable · When using a DVI-HDMI conversion cable, you should make an analog audio connection.

In this case, in addition to connecting a DVI-HDMI conversion cable to the HDMI 1 terminal, connect a Ø 3.5 mm stereo minijack cable to the AUDIO IN terminal and set "Audio Select" to "HDMI+Analog". (See page 57.) When using analog RGB cable (PC IN): Analog RGB cable (D-sub 15-pin cable or VGA cable) Back panel surface inputs Ø 3.5 mm stereo minijack cable RGB AUDIO Back panel horizontal inputs · When using an analog RGB cable, input the audio signal to the AUDIO IN terminal of PC IN.

· When connecting a PC to the PC IN, set "Audio Select" to "Video+Audio". (See page 57.)

17 Watching TV Turning On/Off the Power Initial Installation When you turn on the TV for the first time, it will automatically memorize the broadcasting channels available in the region where you live. Perform the following steps before you press POWER on the remote control unit.

1. Insert the batteries into the remote control unit. (See page 10.)

2. Connect the antenna cable to the TV. (See page 10.)

3. Plug in the AC cord to the AC outlet. (See page 9.)

POWER POWER (On/Standby) Language (Language setting) Select from among 3 languages: English, French and Spanish. 1 Press a/b to select the desired language listed on the screen, and then press ENTER.

Language TV Location Antenna & Cable/STB Air/Cable English Français Español Press POWER on the TV or on the remote control unit to turn the power on. · The Initial Installation starts when the TV powers on for the first time. If the TV has been turned on before, the Initial Installation will not be invoked.

For changing the settings of the Initial Installation, perform "EZ setup" on the Initial Setup menu on page 34.

CH Search Completed TV Location Select "Home" or "Store" for the location where you plan to install the TV. This product qualifies for ENERGY STAR in Home mode default setting. Press POWER on the TV or on the remote control unit again to turn the power off. · The TV enters standby and the image on the screen disappears.

2 Press c/d to select "Home" or "Store". Press ENTER to enter the setting.

Select Home Store · If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the AC outlet. · Weak electric power is still consumed even when the TV is turned off. Home: "Power Saving" is set to "Advanced", and AV MODE is set to "STANDARD". Store: "Power Saving" is set to "Off" and AV MODE is set to "DYNAMIC (Fixed)". Picture Reset and Feature Demo can be set.

Picture Reset: AV MODE will be set to "DYNAMIC (Fixed)" regardless of whether Picture Reset is "On" or "Off". If you select "On", AV MODE will be reset to "DYNAMIC (Fixed)" if there is no operation for 30 minutes. When "Off" is selected, AV MODE will be set to "DYNAMIC (Fixed)". Feature Demo: When "On" is selected, after all the settings are completed, the Feature Demo screen is displayed if there is no operation for several minutes. · ENERGY STAR qualification is based on AV MODE "STANDARD".

18 Watching TV Antenna & Cable/STB Select the type of connection you will use to watch TV. CH Search (Channel search) Channel auto search makes the TV look for all channels viewable in the set area.

3 Press c/d to select "Antenna & Cable" or "Settop box", and then press ENTER.

5 When "Air" is selected in Antenna setting: Press c/d to select "Start", and then press ENTER.



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Antenna & Cable Set-top box Start Cancel To watch TV via an antenna or cable connection (without using a set-top box): Select "Antenna & Cable", and then go to step 4. To watch TV via a set-top box: 1 Select "Set-top box", and then press ENTER. 2 To watch TV, select the input source corresponding to the terminal connected to the set-top box. When doing so, you must make the setting to skip "TV". Press c/d to select "On", and then press ENTER. When "Cable" is selected in Antenna setting: 1 Press a/b to select "Analog & Digital Search Start" to search both analog and digital broadcasts, or to select "Analog Search Start" to search only analog broadcasts, and then press ENTER.

Analog & Digital Search Start Analog Search Start Cancel On Off · The Channel search will start automatically. · To exit the Channel search screen, select "Cancel", and then press ENTER. · When this is set to "On", the channel on the TV cannot be changed using the remote control unit or menu. (e.g. CH r/s, Favorite CH, etc.) · See page 32 for details on the Input Skip function. 3 Press INPUT to select the input source corresponding to the terminal connected to the set-top box. Make the necessary settings on the connected external equipment. · See the operation manual of the connected equipment for setting up the equipment.

2 The Channel search results may include scrambled channels or channels that are not viewable in the set area. Press c/d to select "Yes", and then press ENTER to remove scrambled channels. Yes No Air/Cable (Antenna setting) Make sure what kind of connection is made with your TV when selecting "Air" or "Cable". 4 Press c/d to select "Air" or "Cable". Press ENTER to enter the setting.

Air Cable 19 Watching TV Completed 6 The settings confirmation screen is displayed. Confirm the information displayed on the screen, and then press ENTER. Examples of the settings confirmation screen When one or more channel is received after "Antenna & Cable" was selected in step 3 and a search was carried out. Language TV Location Antenna & Cable/STB Air/Cable Search Result : English : Home : Antenna & Cable : Air : Digital 4ch Analog 7ch Press the INPUT button, then the right arrow d, to see the list of channels found. OK When no channel is received after "Antenna & Cable" was selected in step 3 and a search was carried out.

Language TV Location Antenna & Cable/STB Air/Cable Search Result : English : Home : Antenna & Cable : Cable : No channel Channel not found. Antenna/Cable are not properly connected or Air/Cable setup is incorrect. Please check your Antenna/Cable connection and Air/Cable setup. OK When "Set-top box" was selected in step 3 and a search was carried out. Language TV Location Antenna & Cable/STB TV Input Skip : English : Home : Set-top box : On Please make sure to change INPUT to the specific input terminal you are connecting your set-top box to get the picture. Closed caption, sub-channel audio and channel selection need to be selected with your set-top box. OK · If no channel is found, confirm the type of connection made with your TV and try "EZ Setup" again. (See page 34.) · For changing the settings of the Initial Installation, perform "EZ setup" on the Initial Setup menu on page 34. · To see the list of channels found during Channel search, press INPUT, and then press d.

20 Direct Button Operation MUTE Mutes the current sound output. Press MUTE. · " " will be displayed on the screen for 30 minutes, and the sound is silenced. · Within 30 minutes of pressing MUTE, mute can be canceled by pressing VOLk/l or MUTE. · Mute will be canceled after 30 minutes have passed.

However, the TV will not suddenly output a loud sound as the volume level is set to 0 automatically. Sleep Timer Changing Channels You can change channels in several ways. Method 1 Using CHr/s on the remote control unit or on the TV. Method 2 Using remote control buttons 0-9, · (DOT). Examples: To select a 1 or 2-digit channel number (e.

g., Channel 5): Press 5 ENT. To select a 3-digit channel number (e. g., Channel 115): Press 1 1 5 ENT.

To select a 4-digit channel number (e. g., Channel 22.1): Press 2 2 · (DOT) 1 ENT. Allows you to set a time when the TV automatically switches to standby. Press SLEEP. · The remaining time displays when the sleep timer has been set. · Each time you press SLEEP, the remaining time switches as shown below. Off 30 60 90 120 · When set, the time automatically starts counting down. · If you want to adjust the sleep timer, you can press SLEEP twice then change the time setting. · When it is 5 minutes before the time expires, the remaining time will start to keep appearing every minute. · Select "Off" by pressing SLEEP to cancel the sleep timer. · The TV will enter standby when the remaining time reaches 0. Method 3 Selecting the program from Channel list. 1 Press INPUT on the remote control unit.

2 · The INPUT list displays. Press c/d to select "AIR" or "CABLE". · The Channel list displays. FLASHBACK Press FLASHBACK to switch to the previously tuned channel. · Press FLASHBACK again to switch back to the currently tuned channel. · FLASHBACK will not work if no channel has been changed after the TV is turned on. 3 Press a/b to select the desired channel, and then press ENTER. · When selecting a 1-digit channel number, it is not necessary to press 0 before the number. · When you enter 0-9 only, channel selection will be made if there is no operation within a few seconds. · If you push "0" by itself, nothing will happen.

· Complete the above steps within a few seconds. · When you enter 0-9 and · (DOT), channel selection will be made if there is no operation within a few seconds. FREEZE Allows you to capture and freeze a moving image that you are watching. Press FREEZE. · A moving image is captured.

· Press FREEZE again to cancel the function. · When this function is not available, "No displaying still image available." will display. · The still image automatically goes out after 30 minutes. · If you are using the freeze function and a broadcast activates the V-CHIP BLOCK, the freeze function will be canceled and a V-CHIP BLOCK message will appear.

· You can have the same settings by choosing "Freeze" on the menu items. (See page 31.) Changing Volume You can change the volume by pressing VOLk/l on the TV or on the remote control unit. · To increase the volume, press VOLk. · To decrease the volume, press VOLl.



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20 Audio status Output device Speaker Output Select Fixed Variable Variable sound Mute · When "Output Select" is set to "Variable", the indicator on the screen changes as shown below. 60 · See page 32 for details on the Output Select function. 21 Direct Button Operation AV MODE AV MODE gives you several viewing options to choose from to best match the surrounding environment of the TV, which can vary due to factors like room brightness, type of program watched or the type of image input from external equipment. Press AV MODE. Current AV MODE displays.

· Press AV MODE again before the mode displayed on the screen disappears. The mode changes as shown below: Example: When the input source is TV, COMPONENT, VIDEO 1 or 2 AUTO STANDARD MOVIE GAME USER [TV] INPUT To view external source images, select the input source by pressing INPUT on the remote control unit or on the TV. 1 Press INPUT. · The INPUT list screen displays. 2 Press a/b or press INPUT again to select the input source. · An image from the selected source automatically displays. · Each time INPUT is pressed, the input source toggles. · If the corresponding input is not plugged in, you cannot change the input. Be sure to connect the equipment beforehand. · See pages 13 to 17 and 52 for external equipment connection. DYNAMIC (Fixed) DYNAMIC APPS Allows you to directly activate various types of applications. 1 Press APPS to display the application window. 2 Press a/b/c/d to select the desired application, and then press ENTER. " " is displayed after you switch to USB mode, check · If " the USB connection. " is displayed after you switch to Home Network · If " (DLNA) mode or after you connect to the Internet, check your TV's network settings and connection. · See pages 42, 62, 63 and 69 for details of viewable applications. · You can display the application window by choosing "APPS" on the menu items. (See page 31.) · When this function is not available, "Can not operate this function now" will display. Example: When the input source is PC IN or HDMI 1 to 4 AUTO STANDARD MOVIE GAME USER[PC] DYNAMIC (Fixed) DYNAMIC x.

v.Color* * "x.v.Color" can only be selected when an x.v.Color signal is input using HDMI 1 to 4. AUTO: Optimizes the image quality automatically based on the room brightness and image signal. STANDARD: For a highly defined image in a normal lighting. MOVIE: For a movie. GAME: Lowers image brightness for easier viewing.

PC: For PC. USER: Allows the user to customize settings as desired. You can set the mode for each input source. x.v.Color: Supports the x.v.Color international standard for wide color space. The x.v.

Color signal allows you to experience colors that conventional color signals cannot reproduce. DYNAMIC: For a clear-cut image emphasizing high contrast, useful for sports viewing. DYNAMIC (Fixed): Changes the image and sound settings to the factory preset values. No adjustments are allowed. · You can select a different AV MODE item for each input mode.

(For example, select STANDARD for TV input and DYNAMIC for COMPONENT.) · When you play games, "GAME" is recommended for AV MODE. · You cannot set "GAME" or "PC" when the TV is connected to the Internet or when the input source is "Home Network (DLNA)" or "USB". · You can have the same settings by choosing "AV MODE" on the menu items. (See page 27.)

) POWER SAVING Allows you to set the Power Saving level in order to decrease the power consumption and increase the backlight lifespan. Press POWER SAVING. · Each time you press POWER SAVING, the mode changes as shown below. Off Standard Advanced · You can have the same settings by choosing "Power Saving" on the menu items. (See page 30.) 22 Direct Button Operation Closed Captions and Digital Closed Captions Your TV is equipped with an internal Closed Caption decoder. It allows you to view conversations, narration and sound effects as subtitles on your TV. Closed Captions are available on some TV programs and on some VHS home video tapes at the discretion of the program provider. Digital Closed Caption service is a new caption service available only on digital TV programs (also at the discretion of the service provider). It is a more flexible system than the original Closed Caption system, because it allows for a variety of caption sizes and font styles.

When the Digital Closed Caption service is in use, it will be indicated by the appearance of a 3-letter abbreviation that also indicates the language of the Digital Closed Captions: ENG (English), SPA (Spanish), FRA (French) or other language codes. Not all programs and VHS videotapes offer closed captions. Please look for the "N" symbol to ensure that captions will be shown. In the Closed Caption system, there can be more than one caption service provided. Each is identified by its own number. The "CC1" and "CC2" services display subtitles of TV programs superimposed over the program's picture. In the Closed Caption system, the "Text1" or "Text2" services display text that is unrelated to the program being viewed (e.g., weather or news). These services are also superimposed over the program currently being viewed.

1 Press CC. · This will present the Closed Caption information display. 2 Press CC while the Closed Caption information is still on the screen. · Press repeatedly until you select the desired closed caption service. Air DIGITAL 22.

1 : : : STEREO 480p (4:3) 1/2 CC1 NONE Audio Video CC Ratings Closed Caption information · Depending on the number of caption services in the signal being received, you will see information such as 1/2 or 1/4 displayed. 1/2 means "the first of two services". Example: If a program has three services (Digital CC(ENG), CC1 and Text1), the closed caption display will toggle in this sequence: 1/3 ENG 2/3 CC1 3/3 Text1 Off · The CC button keeps a record of the last service selected in its memory. If the last closed caption mode (e.g.

1/3 ENG) you selected is not available for the next program, or on another channel, the closed caption service that is available is automatically selected, and this service appears in parentheses, e.g. "1/3(CC1)". Closed Caption services that appear in parentheses will not be stored in the CC button's memory as your last selected service. Only services that you have selected with the CC button are stored. Examples: In a case where there are two closed caption services provided (for instance, Digital CC(ENG) and CC1), and Digital CC(ENG) is displayed as your current selection, if Digital CC(ENG) is not broadcast for the next program, the other closed caption service, CC1, will be displayed in parentheses.



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A closed caption service appears in parentheses because the service you selected is not available and a different service is displayed on your screen. "1/1(CC1)" is displayed instead of "1/2/ENG". · When "Power Saving" is set to "Standard" or "Advanced", the Power Saving leaf icon appears on the channel information window. See page 30 for details of Power Saving settings.

· See page 33 for detailed closed caption settings. · When the program contains no closed caption, "--" displays in the closed caption information. · If the language code, e.g. "ENG", is not found on Digital TV programs, "--" will be shown. · Four kinds of closed caption service (CC1, CC2, Text1, Text2) are potentially available, but a broadcast may contain none or only some of these services at the discretion of the program provider. · When TV+Web or Web is displayed, Closed Captions are not available. · You can have the same settings by choosing "Change CC" on the menu items. (See page 32.) 23 Direct Button Operation VIEW MODE You can select the screen size.

1 Press VIEW MODE. · The View Mode menu displays. · The menu lists the View Mode options selectable for the type of video signal currently being received. 2 Press VIEW MODE or a/b while the View Mode menu is displayed to select a desired item on the menu. · You can sequentially select a View Mode that has its own aspect ratio.

· You can have the same settings by choosing "View Mode" on the menu items. (See page 31.) For HD programs Stretch Dot by Dot (Full Screen) S.Stretch (Smart stretch) Zoom Suitable for viewing widescreen 1.78:1 aspect ratio program, stretch mode will still show very thin black bands at the top and bottom of the screen.

Dot by Dot (1080i/p only): Suitable for stretching 4:3 Detects the resolution of the programs to fill the screen. signal and displays an image with the same number of pixels on the screen. Full Screen (720p only): You can select "Full Screen" only when receiving a 720p signal. Suitable for viewing widescreen 2.35:1 aspect-ratio programs in full screen. · When using Dot by Dot or Full Screen, it is possible to see noise or bars around different outer portions of the screen. Please change view mode to correct this. For 4:3 programs Example: Screen size images Side Bar S.Stretch (Smart stretch) Zoom Stretch Suitable for viewing conventional 4:3 programs in their normal format. Suitable for stretching 4:3 programs to fill the screen.

Suitable for viewing widescreen 2.35:1 anamorphic DVDs in full screen. This mode is useful for 1.78:1 DVDs. When viewing 1.85:1 DVDs, stretch mode will still show very thin black bands at the top and bottom of the screen. For USB-Video, DLNA-Video or Internet applications Example: Screen size images Input signal Auto Original Keeps the original aspect ratio in a full screen display. Displays an image by an original size. 24 On-Screen Display Menu On-Screen Display Menu Operation LCFONT embedded System Options : Select ENTER Example Picture Settings Example System Options : Select ENTER Initial Setup : Enter RETURN Information : Back MENU Menu Initial Setup : Enter RETURN Information : Back MENU Picture Settings Picture Settings Menu : Exit

Picture Settings AV MODE (Changing Pic.Quality) [STANDARD] : Exit AV MODE (Changing Pic.Quality) [STANDARD] OPC [On:Display] OPC Backlight b16 b40 b30 b30 b30 b10 [b5] a16 [b30] [0 b16 b40 b30 b30 b30 b10 Backlight [b5] a16 [b30] [0 Contrast Brightness 0] a30 Contrast Brightness 0] a30 Color Tint [[b2] a30 0] a30 [b2] a30 0] a30 Sharpness [b2] a10 Sharpness [b2] a10 Advanced Reset Advanced Reset 1 Guide display 1 Press MENU to display the MENU screen. 2 1 Press c/d to select the desired menu. 2 Press a/b to select a specific adjustment item, and then press ENTER. · Additional related adjustment items may be displayed. Press a/b to select the desired item.

· This indicates the buttons that can be operated on the displayed screen. The guide display varies depending on the menu setting screen. · The operations for some selected items may be displayed in the operational guide bar at the bottom of the screen. · This indicates the item currently selected. · Press ENTER to go to the adjustment screen for this item.

· This indicates the current setting for the item. · This indicates that the item can be selected. · This indicates that the item cannot be selected. There are various reasons why the items cannot be selected, but the main reasons are as follows: --Nothing is connected to the selected input terminal. --The function is not compatible with the current input signal. 2 Item displayed in blue 3 Item in brackets 3 Adjust the item while referring to the guide display. · Operations vary depending on the function or item. Refer to the guide display corresponding to the menu setting screen for button operations. 4 Item displayed in white 5 Item displayed in gray 3 Press MENU to exit. · Menu options differ in the selected input modes, but the operating procedures are the same.

· The screens in the operation manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual screens. · The order of explanations for each menu item in the following pages is not necessarily in accordance with the alignment of the items on the screen. LCFONT: · This product is embedded with LC Font technology, which was developed by SHARP Corporation for clearly displaying easy-to-read characters on LCD screens. Menu Operation Buttons Using the remote control Use the following buttons on the remote control to operate the menu. Using the touch sensor panel of the main unit You can also operate the menu with the touch sensor panel of the main unit. Button operations on the touch sensor panel correspond to the ones on the remote control as shown below. MENU: Press to open or close the menu screen. a/b/c/d: Press to select a desired item on the screen or adjust a selected item. ENTER: Press to go to the next step or complete the setting. RETURN: Press to return to the previous step.

VOL/k: CH / : INPUT: MENU: Cursor c/d on the remote control. Cursor a/b on the remote control. ENTER on the remote control. MENU on the remote control. 25 On-Screen Display Menu Menu Items · When AV MODE is set to "AUTO", part of the menu may not be displayed correctly or the setting range of the menu may be changed.

· Some menu items may not be displayed depending on the selected input source. Picture Settings AV MODE (Changing Pic.Quality) ...
.. Page 27 OPC

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Page 27 Backlight

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. Page 27 Contrast .



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