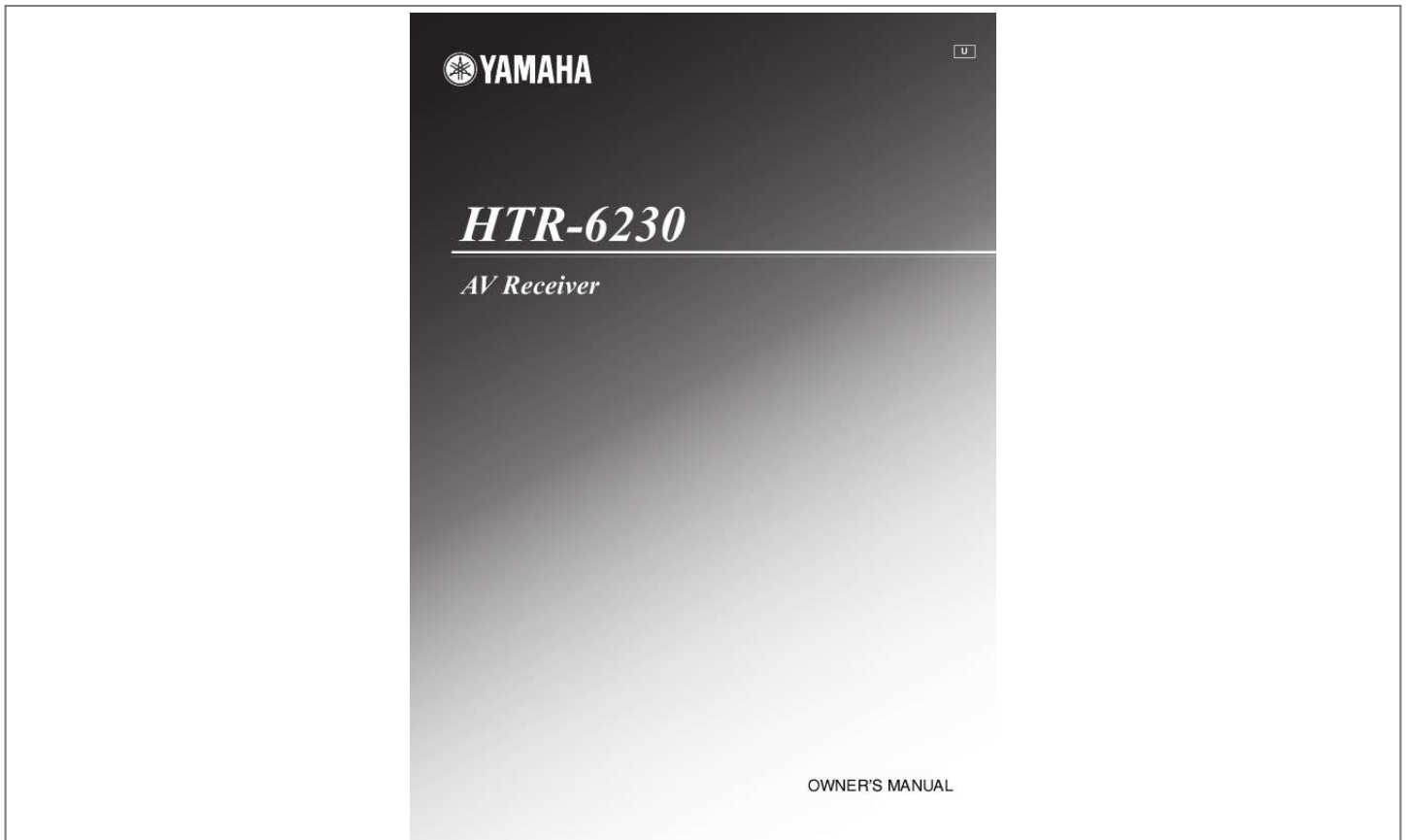




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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA HTR-6230. You'll find the answers to all your questions on the YAMAHA HTR-6230 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA HTR-6230
User guide YAMAHA HTR-6230
Operating instructions YAMAHA HTR-6230
Instructions for use YAMAHA HTR-6230
Instruction manual YAMAHA HTR-6230



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Manual abstract:

@@@Heed Warnings All warnings on the product and in the operating instructions should be adhered to. Follow Instructions All operating and use instructions should be followed. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. @@@@Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. 14 15 16 17 18 19 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.

This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. 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. Grounding or Polarization This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other).

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. **Lightning** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. **Power Lines** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. **Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock. **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. **Servicing** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a) When the power-supply 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, **Caution-i** En **IMPORTANT SAFETY INSTRUCTIONS** 20 21 22 23 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. **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. **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. **Wall or Ceiling Mounting** The unit should be mounted to a wall or ceiling only as recommended by the manufacturer. **Heat** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. d) 24 **Outdoor Antenna Grounding** If an outside antenna or cable system is connected to the product, be sure the antenna or cable 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 MAST ANTENNA LEAD IN WIRE GROUND CLAMP ANTENNA DISCHARGE UNIT (NEC SECTION 81020) ELECTRIC SERVICE EQUIPMENT GROUNDING CONDUCTORS (NEC SECTION 81021) GROUND CLAMPS POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250).**

PART H) Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC 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. **NEC NATIONAL ELECTRICAL CODE FCC INFORMATION (for US customers) 1 IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!** This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product. **2 IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used.



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Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA. 3 NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures: Relocate either this product or the device that is being affected by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s. In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable. If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A.

6660 Orangethorpe Ave, Buena Park, CA 90620. The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries. Caution-ii En Caution: Read this before operating your unit. 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference. 2 Install this sound system in a well ventilated, cool, dry, clean place away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Allow ventilation space of at least 30 cm on the top, 20 cm on the left and right, and 20 cm on the back of this unit. 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds. 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e.

a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury. 5 Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place: Other components, as they may cause damage and/or discoloration on the surface of this unit. Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury. Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit. 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

7 Do not plug in this unit to a wall outlet until all connections are complete. 8 Do not operate this unit upside-down. It may overheat, possibly causing damage. 9 Do not use force on switches, knobs and/or cords. 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable. 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth. 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.

13 To prevent damage by lightning, keep the power cord and outdoor antennas disconnected from a wall outlet or the unit during a lightning storm. 14 Do not attempt to modify or fix this unit. Contact qthe VIDEO AUX jacks on the front panel 15 Connecting the FM and AM antennas

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..... 18 About this manual · y indicaoth wireless audio receiver (such as YBA-10, sold separately) Other features 192-kHz/24-bit D/A converter iPod controlling capability Sleep timer Cinema and music night listening modes Remote control with preset remote control codes Yamaha and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound

come through loud and clear without annoying blaring or distortion - and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, Yamaha and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels. Supplied accessories Check that you received all of the following parts.

Remote control Batteries (2) (AAA, R03, UM-4) AM loop antenna Indoor FM antenna Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories. 2 En Functional overview Front panel INTRODUCTION T C D E F G H I P VOLUME PREPARATION SPEAKERS EDIT PRESET/TUNING A/B/C/D/E I PRESET/TUNING h BAND MEMORY TUNING AUTO/MAN'L SCENE 1 2 3 4 PHONES STANDBY /ON TONE CONTROL PROGRAM STRAIGHT INPUT NIGHT VIDEO AUX I SILENT CINEMA h EFFECT I h VIDEO AUDIO PORTABLE BASIC OPERATION A A B C STANDBY/ON B K L M P Q N O J Q R S VOLUME control Adjusts the volume level of this unit (see page 17). Turns on this unit, or sets it to standby mode (see page 15). PHONES jack Connect to a pair of headphones (see page 19). VIDEO (VIDEO AUX) jack Connects to a game console or a video camera using a composite video cable (see page 15). ADVANCED OPERATION SPEAKERS Turns on or off the set of front speakers connected to the FRONT A or FRONT B speaker terminals (see page 18). R AUDIO L/R (VIDEO AUX) jacks Connects to a game console or a video camera using analog audio cables (see page 15). D E F EDIT PRESET/TUNING Switches the tuning mode (see page 27).



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S T PORTABLE (VIDEO AUX) jack Connects to an audio component (such as iPod) (see page 15).

A/B/C/D/E Selects the preset station group (A to E) (see page 28). **Front panel display** Shows information about the operational status of this unit (see page 17). **PRESET/TUNING I / h** Tunes into radio stations manually or automatically and selects a preset station group (see page 27). **ADDITIONAL INFORMATION G H BAND** Selects the reception band from FM and AM (see page 27). **MEMORY** Stores a station that you tuned into as a preset station (see page 27). **I TUNING AUTO/MAN'L** Selects a tuning method from automatic or manual tuning (see page 27). **J SCENE 1/2/3/4** Recalls an input source and a sound field program assigned to each SCENE button (see page 21). **APPENDIX K TONE CONTROL** Selects "BASS" and "TREBLE" to adjust frequency response (see page 19). **L M N O PROGRAM I / h** Selects a sound field program (see page 25). **STRAIGHT** Activates the "STRAIGHT" mode (see page 26).

English INPUT I / h Selects an input source (see page 17). **NIGHT** Selects a night listening mode (see page 19). **3 En Functional overview Front panel display a b c d DVR VIRTUAL ENHANCER q DIGITAL q PL q PL e V-AUX DOCK f DTV/CBL DVD MD/CD-R g TUNER CD h i t SP SILENT CINEMA NIGHT AB AUTO TUNED STEREO MEMORY PRESET SLEEP MUTE ft mS dB VOLUME dB PCM LFE LCR SL SR j a b Decoder indicator k l m n q o p q Input channel and speaker indicators** Lights up when any of the decoders of this unit functions. **ENHANCER indicator** Lights up when the Compressed Music Enhancer mode is selected (see page 25). **LFE LCR SL SR LFE indicator Input channel indicators c d VIRTUAL indicator** Lights up when Virtual CINEMA DSP is active (see page 26). **SILENT CINEMA indicator** Lights up when headphones are connected and a sound field program is selected (see page 26). **LFE indicator** Lights up when the input signal contains the LFE signal. **Input channel indicators** Indicates the channel components of the current digital input signal. **e DOCK indicator** Lights up or flashes according to the state of Yamaha iPod universal dock or Bluetooth Wireless Audio Receiver connected to this unit (see pages 14 and 30). **f Input source indicators** The corresponding cursor lights up to show the currently selected input source. **g Tuner indicators** Lights up when this unit is in the FM or AM tuning mode (see page 27). **h i j MUTE indicator** Flashes while the MUTE function is on (see page 19). **VOLUME level indicator** Indicates the current volume level. **PCM indicator** Lights up when this unit is reproducing PCM (Pulse Code Modulation) digital audio signals. **k l Headphones indicator** Lights up when headphones are connected (see page 19).

SP A B indicators Lights up according to the set of front speakers selected (see page 17). **m n o NIGHT indicator** Lights up when you select a night listening mode (see page 19). **CINEMA DSP indicator** Lights up when you select a sound field program (see page 26). **Multi-information display** Shows the name of the current sound field program and other information when adjusting or changing settings. **p SLEEP indicator** Lights up while the sleep timer is on (see page 20).

4 En Functional overview Remote control h AMP Press this button before you control this unit (see page 17). **a c b POWER TV A INTRODUCTION i SCENE 1/2/3/4** Recalls an input source and a sound field program assigned to each SCENE button (see page 21). **POWER AV B STANDBY POWER d C j k MUTE BAND LEVEL TITLE** Selects the speaker that you want to adjust (see page 19). **e CD MD/CD-R TUNER MENU** Displays the set menu on the front panel display (see page 32). **DVD DTV/CBL DVR TV CH l** Cursors (I / h / n / k) / ENTER · Press cursors to navigate the set menu (see page 32). · Press ENTER to confirm a selection in the set menu (see page 32). **PREPARATION f V-AUX/DOCK D E g TV VOL AMP TV INPUT TV MUTE m n VOLUME +/-** Adjusts the volume level of this unit (see page 17). **h SCENE RETURN** Returns the previous menu level when the set menu is displayed (see page 32). **i j 1 BAND LEVEL TITLE 2 3 4 k MENU VOLUME o DISPLAY** Displays the information of external components (such as a DVD player) (see page 38). **BASIC OPERATION PRESET/CH A/B/C/D/E l n ENTER m p Control buttons** Control external components (such as a DVD player) connected to this unit (see page 38).

A/B/C/D/E P R ESET/C H q DISPLAY PROG I / h Selects the sound field program (see page 25). **RETURN o REC r ENHANCER** Sets the sound field program to the "Music Enh. 2ch" or "Music Enh. 5ch" (see page 25). **ADVANCED OPERATION p s SUR.DECODE** Selects a decoder from four decoders (see page 26). **r q t v w PROG ENHANCER SUR.DECODE 1 STRAIGHT 2 6 0 3 NIGHT 4 8 SLEEP ENT 5 9 7 10 s u x t u v STRAIGHT** Activates the "STRAIGHT" mode (see page 26). **NIGHT** Selects a night listening mode (see page 19). **ADDITIONAL INFORMATION MULTI CH IN AUDIO SEL y w MULTI CH IN** Sets the input source to MULTI CH IN (see page 18).

AUDIO SEL Selects an audio input select setting for each input source (see page 18). **x y a b c d e f g Infrared window** Outputs infrared control signals (see page 8). **SLEEP** Sets the sleep timer (see page 20). **Numeric buttons** Enter remote control codes or preset station number (see page 39). **APPENDIX TV/AV POWER** Turns your TV or other components on or off (see page 38).

STANDBY (POWER (MUTE)) Sets this unit to the standby mode (see page 15). Turns this unit on (see page 15). Mutes audio output (see page 19). **Input selector buttons** Switches the input source to each source (see page 17). **English TV control buttons** Controls your TV (see page 37).

5 En Functional overview Rear panel a b c d e f ANTENNA OUT DVD DTV/CBL SURROUND SPEAKERS CENTER FRONT B DOCK DVD COMPONENT VIDEO DTV/CBL DVR MONITOR OUT HDMI AM PR GND DIGITAL INPUT PB OPTICAL CD DVD DTV/CBL VIDEO DVR IN OUT MONITOR OUT FM UNBAL. Y MULTI CH INPUT AUDIO OUT DTV/ CBL FRONT SURROUND CENTER DVD DTV/CBL IN DVR CD MD/ OUT IN (PLAY) CD-R (REC) OUTPUT SUB WOOFR DVD COAXIAL SUBWOOFER FRONT A g a DOCK terminal h i j k Connect to the Yamaha iPod Universal Dock (such as YDS-11, sold separately) or Bluetooth Wireless Audio Receiver (such as YBA-10, sold separately) using its dedicated cable (see page 14). This input jacks support PCM, Dolby Digital and DTS bitstream (see page 11). · COAXIAL (DVD) · OPTICAL (DTV/CBL) · OPTICAL (CD) b COMPONENT VIDEO jacks Connect to Y, PB/CB and PR/CR jacks on your video components with component video cables (see page 11).



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· DVD input jacks · DTV/CBL input jacks · DVR input jacks · MONITOR OUT output jacks h MULTI CH INPUT jacks Connect to the output jacks on your multi-format player or external decoder with analog audio cables (see page 14). · FRONT L/R jack · SURROUND L/R jack · CENTER jack · SUBWOOFER jack c HDMI terminals Connect to HDMI output/input terminals on your external components with HDMI cables (see page 11). · HDMI DVD terminal · HDMI DTV/CBL terminal · HDMI OUT output terminal i AUDIO jacks Connect to the audio output/input jacks on your components with analog audio cables (see page 11). · DVD L/R jack · DTV/CBL L/R jack · DVR IN L/R jack · DVR OUT L/R jack · CD L/R jack · IN (PLAY) L/R jack · OUT (REC) L/R jack d VIDEO jacks Connect to video jacks on your video components with composite video cables (see page 11). · DVD input jack · DTV/CBL input jack · DVR IN jack · DVR OUT jack · MONITOR OUT jack j SUBWOOFER OUTPUT jack Connect to a Subwoofer with an analog audio cable (see page 9). k Power cable Connect to a standard AC outlet (see page 15).

e f ANTENNA terminals Connect to the supplied FM and AM antennas (see page 15). SPEAKERS terminals Connect to each speakers (see page 9). · FRONT A L/R · FRONT B L/R · SURROUND L/R · CENTER g DIGITAL INPUT jacks Connect to the DIGITAL output jacks on your digital audio components with Coaxial/Optical digital audio cables. 6 En Quick start guide The following steps describe the easiest way to operate this unit. See the related pages for details on the operation and settings. INTRODUCTION Step 1: Check the items In these steps, you need the following items which are not included in the package of this unit. Speakers We recommend magnetically shielded speakers. Front speaker ...

.....

.... x 2 At least two front speakers are required to start playback.
 Center speaker

.....

x 1 Surround speaker

.....

x 2 Active subwoofer

.....

..... x 1 Select an active subwoofer equipped with an RCA input jack. Speaker cable

.....

..... x 5 Subwoofer cable ...

.....

.... x 1 Select a monaural RCA cable.
 DVD player

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. x 1 Select DVD player equipped with coaxial digital audio output jack and composite video output jack. Video monitor

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... x 1 Select a TV monitor, video monitor or projector equipped with a composite video input jack. Video cable .

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..... x 2 Select an RCA composite video cable.

Digital coaxial audio cable

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.....

x 1 Step 3: Connect your components Connect your TV, DVD player or other components. · Connecting a TV monitor or projector P. 12 · Connecting audio and video components P. 13 · Connecting a multi-format player or an external decoder P. 14 · Connecting a Yamaha iPod universal dock or Bluetooth Wireless Audio Receiver P. 14 · Using the VIDEO AUX jacks on the front panel P. 15 · Connecting the FM and AM antennas P. 15 PREPARATION Step 4: Turn on the power Connect the power cable and turn on this unit. · Connecting the power cable · Turning on and off the power P. 15 P.

15 BASIC OPERATION Step 5: Select the input source and start playback Select the component connected in the step 3 as an input source and start playback.

· Basic procedure · Selecting the SCENE templates · Adjusting the sound field programs P. 17 P. 21 P. 25 ADVANCED OPERATION ADDITIONAL INFORMATION Step 2: Set up your speakers Place your speakers in the room and connect them to this unit. Video monitor Front left speaker Front right speaker Subwoofer Surround right speaker APPENDIX Center speaker DVD player Surround left speaker English · Placing speakers · Connecting speakers P. 9 P. 9 7 En PREPARATION Preparation of remote control Installing batteries in the remote control Using the remote control The remote control transmits a directional infrared ray. Be sure to aim the remote control directly at the remote control sensor on this unit during operation. 1 3 2 30° 30° Approximately 6 m (20 ft) 1 2 Take off the battery compartment cover.

Insert the four supplied batteries (AAA, R03, UM-4) according to the polarity markings (+ and) on the inside of the battery compartment. Snap the battery compartment cover back into place. Notes · Change all of the batteries if you notice the following conditions: the operation range of the remote control decreases. · Do not use old batteries together with new ones. · Do not use different types of batteries (such as alkaline and manganese batteries) together.

Read the packaging carefully as these different types of batteries may have the same shape and color. · If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries. · Do not throw away batteries with general house waste; dispose of them correctly in accordance with your local regulations.

· If the remote control is without batteries for more than 2 minutes, or if exhausted batteries remain in the remote control, the contents of the memory may be cleared. When the memory is cleared, insert new batteries and set up the remote control code. a Infrared window Outputs infrared control signals. Aim this window at the component you want to operate. y · To set the remote control codes for other components, see page 39. 3 Notes · Do not spill water or other liquids on the remote control. · Do not drop the remote control. · Do not leave or store the remote control in the following types of conditions: places of high humidity, such as near a bath places of high temperature, such as near a heater or stove places of extremely low temperatures dusty places · To set the remote control codes for other components, see page 39. 8 En Connections Placing speakers The speaker layout below shows the speaker setting we recommend. You can use it to enjoy CINEMA DSP and multi-channel audio sources.

Connecting speakers Be sure to connect the left channel (L), right channel (R), "+" (red) and "" (black) properly. If the connections are faulty, this unit cannot reproduce the input sources accurately. Caution · Use speakers with the specified impedance shown on the rear panel of this unit. · Before connecting the speakers, make sure that this the AC power plug is disconnected from the AC wall outlet. · Do not let the bare speakers wires touch each other or do not let them touch any metal part of this unit. This could damage this unit and/or speakers. · Use magnetically shielded speakers. If this type of speaker still creates interference with the monitor, place the speakers away from the monitor.



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· If you are to use 6-ohm speakers, be sure to set "SP IMP." to "6MIN" before using this unit.

See page 40 for details on setting "SP IMP." 5.1-channel speaker connection INTRODUCTION FL C FR SW 30° PREPARATION SL 60° SR 80° SL SR BASIC OPERATION Front left and right speakers (FL and FR) The front speakers are used for the main source sound plus effect sounds. Place these speakers at an equal distance from the ideal listening position. The distance of each speaker from each side of the video monitor should be the same. Center speaker (C) The center speaker is for the center channel sounds (dialog, vocals, etc.). If for some reason it is not practical to use a center speaker, you can do without it. Best results, however, are obtained with the full system. Surround left and right speakers (SL and SR) The surround speakers are used for effect and surround sounds.

Subwoofer (SW) The use of a subwoofer with a built-in amplifier, such as the Yamaha Active Servo Processing Subwoofer System, is effective not only for reinforcing bass frequencies from any or all channels, but also for high fidelity sound reproduction of the LFE (low-frequency effect) channel included in Dolby Digital and DTS sources. The position of the subwoofer is not so critical, because low bass sounds are not highly directional. But it is better to place the subwoofer near the front speakers. Turn it slightly toward the center of the room to reduce wall reflections. ADVANCED OPERATION c d e f g ANTENNA D DTV/CBL HDMI SURROUND R L SPEAKERS CENTER FRONT B L R ADDITIONAL INFORMATION AM GND VIDEO BL IN DVR OUT MONITOR OUT FM 75 UNBAL. BL IN DVR AUDIO OUT CD IN MD/ OUT (PLAY) CD-R (REC) OUTPUT SUB WOOFER R FRONT A L h a b APPENDIX English 9 En Connections Speakers a Front speaker (A) Right* b Front speaker (A) Left* c Surround speaker Right d Surround speaker Left e Center speaker f Front speaker (B) Right* g Front speaker (B) Left* h Subwoofer Jacks on this unit FRONT A (R) FRONT A (L) SURROUND (R) SURROUND (L) CENTER FRONT B (R) FRONT B (L) SUBWOOFER Connecting to the FRONT A terminals 2 1 3 1 2 3 Loosen the knob. Insert the bare end of the speaker wire into the slit on the terminal. Tighten the knob to secure the wire. Red: positive (+) Black: negative (-) * You can select the front speaker set from Front speakers (A) and Front speakers (B) by pressing CSPEAKERS repeatedly. See page 18 for details.

Connect speaker cables to each speaker Connecting the banana plug (except Europe, Russia, Korea, and Asia models) The banana plug is a single-pole electrical connector widely used to terminate speaker cables. First, tighten the knob and then insert the banana plug connector into the end of the corresponding terminal. Banana plug Cables are colored or shaped differently, perhaps with a stripe, groove or ridge. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of your speaker. Connect the plain cable to the "" (black) terminals. Before connecting to the SPEAKERS terminal A speaker cord is actually a pair of insulated cables running side by side. Cables are colored or shaped differently, perhaps with a stripe, groove or ridges. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of this unit and your speaker.

Connect the plain cable to the "" (black) terminals. Remove approximately 10 mm (3/8") of insulation from the end of each speaker cable and then twist the bare wires of the cable together to prevent short circuits. 10 mm (3/8") Connecting to the FRONT B, CENTER, and SURROUND terminals Red: positive (+) Black: negative (-) 1 2 3 Press down the tab. Insert the bare end of the speaker wire into the hole on the terminal. Release the tab to secure the wire.

10 En Connections Connecting video components Information on jacks and cable plugs Audio jacks and cable plugs AUDIO L R VIDEO jacks For conventional composite video signals transmitted via composite video cables. COMPONENT VIDEO jacks For component signals, separated into the luminance (Y) and chrominance (PB, PR) video signals transmitted on separate wires of component video cables. Video signal flow for MONITOR OUT Input Output (MONITOR OUT) INTRODUCTION DIGITAL AUDIO COAXIAL DIGITAL AUDIO OPTICAL (White) (Red) (Orange) PR COMPONENT PB VIDEO Y O PR PB Y PREPARATION L R C VIDEO Left and right analog audio cable plugs Coaxial digital audio cable plug Optical digital audio cable plug Information on HDMITM BASIC OPERATION Audio signals input at the HDMI jack are not output from any speaker terminals but output from the connected video monitor. To enjoy the sound from speakers connected to this unit, make an analog or digital connection besides the HDMI connection (see page 13). mute the volume of the connected video monitor.

You can play back pictures by connecting your video monitor and video source component to this unit using HDMI connections. At that time, audio/video signals output from the connected component (such as DVD player etc.) are output to the connected video monitor only when this unit is turned on and set to the input source (DVD or DTV/ CBL). Furthermore, available audio/video signals depend on the specification of the connected video monitor. Refer to the instruction manual of each connected component. HDMI jack and cable plug HDMI AUDIO jacks For conventional analog audio signals transmitted via left and right analog audio cables. Connect red plugs to the right jacks and white plugs to the left jacks. COAXIAL jack For digital audio signals transmitted via coaxial digital audio cable. OPTICAL jacks For digital audio signals transmitted via optical digital audio cables. Notes · You can use the digital jacks to input PCM, Dolby Digital, and DTS bitstreams.

All digital input jacks are compatible with digital signals with up to 96 kHz of sampling frequency. · This unit handles digital and analog signals independently. Thus audio signals input at the digital jacks are not output at the analog AUDIO OUT (REC) jack. ADVANCED OPERATION ADDITIONAL INFORMATION Video jacks and cable plugs COMPONENT VIDEO Y PB PR VIDEO HDMI cable plug APPENDIX y (Yellow) (Green) (Blue) (Red) · We recommend using an HDMI cable shorter than 5 meters (16 feet) with the HDMI logo printed on it. · Use a conversion cable (HDMI jack DVI-D jack) to connect this unit to other DVI components. V Y PB PR Using the AUDIO OUT REC jack You can record the audio signal output at the AUDIO OUT (REC) jack by using the recording components. Composite video cable plug Component video cable plugs English Note · Check the copyright laws in your country to record from CDs, radio, etc.



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Recording of copyrighted material may infringe copyright laws. 11 En Connections Connecting a TV monitor or projector Make sure that this unit and other components are unplugged from the AC wall outlets. Note · If you turn off the video monitor connected to the HDMI OUT jack via a DVI connection, the connection may fail.

In this case, the HDMI indicator flashes irregularly. TV (or projector) Component video in Video in HDMI in Y PB PR R Audio out V L ANTENNA OUT DOCK DVD COMPONENT VIDEO MONITOR DTV/CBL DVR OUT DVD DTV/CBL HDMI SURROUND R L SPE CE AM PR DIGITAL INPUT VIDEO GND PB OPTICAL DVD DTV/CBL IN DVR OUT MONITOR OUT FM 75 UNBAL. Y CD 3 MULTI CH INPUT DTV/ CBL 2 L FRONT SURROUND CENTER L DVD DTV/CBL IN DVR AUDIO OUT CD IN MD/ OUT (PLAY) CD-R (REC) OUTPUT SUB WOOFER DVD 1 R R COAXIAL SUBWOOFER Recommended connections Alternative connections 12 En Connections Connecting other components Connecting audio and video components This unit has three types of audio jacks, two types of video jacks and HDMI jacks. You can choose the connection method depending on the component to be connected. Connecting example (connecting a DVD player) INTRODUCTION ANTENNA OUT DOCK DVD COMPONENT VIDEO DTV/CBL DVR MONITOR OUT AM PREPARATION DVD DTV/CBL HDMI SU R PR DIGITAL INPUT VIDEO GND PB OPTICAL DVD DTV/CBL IN DVR OUT MONITOR OUT FM 75 UNBAL.

Y CD 3 MULTI CH INPUT DTV/ CBL 2 L FRONT SURROUND CENTER L DVD DTV/CBL IN DVR AUDIO OUT CD IN MD/ OUT (PLAY) CD-R (REC) OUTPUT SUB WOOFER BASIC OPERATION DVD 1 R R COAXIAL SUBWOOFER Component out Audio out Video out L R V Y PB PR ADVANCED OPERATION Coaxial out C HDMI out Recommended connections Alternative connections Jacks used for audio and video connections Recommended connections are indicated by (*). When connecting a recording component, you need to make additional connections for recording (signal transmission from this unit to the recording component). y Make sure that this unit and other components are unplugged from the AC wall outlets. · You can also use the VIDEO AUX jacks (see page 15) on the front panel to connect an additional component. · To confirm the positions of "jacks on this unit" in the following table, refer to "Rear panel" in "Functional overview" on page 6.

ADDITIONAL INFORMATION Component DVD player or Blu-ray Disc Video Signal type Jacks on component HDMI out* Component out Video out (composite) Jacks on this unit HDMI (DVD)* COMPONENT VIDEO (DVD) VIDEO (DVD) COAXIAL (DVD)* AUDIO (DVD) HDMI (DTV/CBL)* COMPONENT VIDEO (DTV/CBL) APPENDIX Audio Optical out* Audio out (analog) Set-top box Video HDMI out* Component out Video out (composite) English VIDEO (DTV/CBL) OPTICAL (DTV/CBL)* AUDIO (DTV/CBL) Audio Optical out* Analog out (analog) 13 En Connections Component DVD recorder Video Signal type Jacks on component HDMI out* Video out (composite) Jacks on this unit HDMI (DVR)* VIDEO (DVR IN) AUDIO (IN (PLAY))* AUDIO (OUT (REC))* VIDEO (DVR OUT)* OPTICAL (CD)* AUDIO (CD) AUDIO (IN (PLAY))* AUDIO (OUT (REC))* Audio Audio recording Video recording CD player Audio Audio MD or CD recorder Audio Audio recording Audio out (analog)* Audio in (analog)* Video in (composite)* Coaxial out* Audio out (analog) Audio out (analog)* Audio in (analog)* Notes · Be sure to make the same type of video connections as those made for your TV if the video conversion is disabled. For example, if you connected your TV to the VIDEO MONITOR OUT jack of this unit, connect other components to the VIDEO jacks. · Check the copyright laws in your country to record from CDs, radio, etc. Recording of copyrighted material may infringe copyright laws. · To make a digital connection to a component other than the default one assigned to each DIGITAL INPUT or DIGITAL OUTPUT jack, configure the "INPUT ASSIGN" setting (see page 34). · Only analog audio signals output at AUDIO OUT (REC) jack can be recorded using the recording components. Therefore Digital signals input at the DIGITAL INPUT jacks or analog signals input at MULTI CH INPUT jacks can be output at the analog AUDIO OUT (REC) jack for recording. Connecting a multi-format player or an external decoder This unit is equipped with 6 additional input jacks (FRONT L/R, SURROUND L/R, CENTER and SUBWOOFER) for discrete multi-channel input from a multi-format player, external decoder or sound processor. Connect the output jacks on your multi-format player or external decoder to the MULTI CH INPUT jacks. Be sure to match the left and right output jacks to the left and right input jacks for the front and surround channels.

CD 3 MULTI CH INPUT DTV/ CBL 2 L Notes · When you select the component connected to the MULTI CH INPUT jacks as the input source (see page 34), this unit automatically turns off the digital sound field processor, and you cannot select sound field programs. · This unit does not redirect signals input at the MULTI CH INPUT jacks to accommodate for missing speakers. We recommend that you connect a 5.1-channel speaker system before using this feature. · The source connected to the MULTI CH INPUT jacks on this unit cannot be recorded. Connecting a Yamaha iPod universal dock or Bluetooth Wireless Audio Receiver This unit is equipped with the DOCK terminal on the rear panel that allows you to connect a Yamaha iPod universal dock (such as YDS-11, sold separately) or Bluetooth Wireless Audio Receiver (such as YBA-10, sold separately). DOCK FRONT SURROUND CENTER L DVD DTV/CBL IN DVR DVD 1 R R COAXIAL SUBWOOFER Subwoofer out DIGITAL INPUT Surround out L R L R OPTICAL CD Front out 3 Center out Yamaha iPod universal dock or Bluetooth Wireless Audio Receiver DTV/ CBL 2 DVD COAXIAL 1 Multi-format player or external decoder 14 En Connections Using the VIDEO AUX jacks on the front panel Use the VIDEO AUX jacks on the front panel to connect a game console or a video camera to this unit. To reproduce the source signals input at these jacks, select "V-AUX" as the input source. Caution Be sure to turn down the volume of this unit and other components before making connections. Notes · The audio signals input at the DOCK terminal on the rear panel take priority over the ones input at the VIDEO AUX jacks. · The audio signals input at the PORTABLE mini jack take priority over the ones input at the AUDIO L/R jacks. Connecting the wire of the AM loop antenna Open the lever Insert Close the lever INTRODUCTION Assembling the supplied AM loop antenna PREPARATION Connecting the FM and AM antennas Both FM and AM indoor antennas are supplied with this unit.



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In general, these antennas should provide sufficient signal strength. Connect each antenna correctly to the designated terminals. Notes · The AM loop antenna should be placed away from this unit.

· A properly installed outdoor antenna provides clearer reception than an indoor one. If you experience poor reception quality, install an outdoor antenna. Consult the nearest authorized Yamaha dealer or service center about outdoor antennas. · The AM loop antenna should always be connected, even if an outdoor AM antenna is connected to this unit. Outdoor AM antenna BASIC OPERATION Note · The types of the supplied AM loop antenna is different depending on the models.

Connecting the power cable Once all connections are complete, plug the power cable into the AC wall outlet. ADVANCED OPERATION Power cable Use a 5 to 10 m (16 to 32 ft) of vinyl-covered wire extended outdoors from a window. AM loop antenna (supplied) L ADDITIONAL INFORMATION ANTENNA To the AC wall outlet DEO N DVR OUT MONITOR OUT AM GND Indoor FM antenna (supplied) R SURRO Turning on and off the power Turning on this unit Press ASTANDBY/ON (or dPOWER) to turn on this unit. y · When you turn on this unit, there will be a 4 to 5-second delay before this unit can reproduce sound. FM 75 UNBAL. AUDIO N OUTP CD IN MD/ OUT (PLAY) CD-R (REC) APPENDIX DVR OUT S Ground For maximum safety and minimum interference, connect the antenna GND terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth. Set this unit to the standby mode Press ASTANDBY/ON (or cSTANDBY) to turn off this unit. Note · In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control. English 15 En Basic setup The "BASIC SETUP" feature is a useful way to set up your system quickly and with minimal effort.

Notes · Make sure that you disconnect your headphones from this unit. · If you wish to configure this unit manually using more precise adjustments, use the detailed parameters in "SOUND MENU" (see page 32). · Altering any parameters in "BASIC SETUP" resets all parameters manually adjusted in "SOUND MENU" (see page 32). · Initial settings are indicated by (*) in the following each parameters. · Press nRETURN on the remote control to return to the previous menu level. Choice SET CANCEL* Function Applies the settings you made. Cancels the setup procedure without making any changes. y · You can also press kMENU to cancel the setup procedure. 8 1 2 3 4 Press hAMP on the remote control. Press kMENU.

"BASIC SETUP" appears on the front panel display. Press IENTER to enter "BASIC SETUP." "ROOM: S M L" appears on the front panel display. Press ll / h to select the desired setting. Select the size of the room where you have installed your speakers.

The room sizes are defined as follows: Choice S M* L Approximate Size of the room 16 x 13 ft, 200 ft² (4.8 x 4.0 m, 20 m²) 20 x 16 ft, 300 ft² (6.3 x 5.0 m, 30 m²) 26 x 19 ft, 450 ft² (7.

9 x 5.8 m, 45 m²) Press IENTER to confirm your selection. If you selected "SET" in step 7, each speaker outputs a test tone twice in turn. "CHECK:TestTone" appears on the front panel display for a few seconds and then "CHECK OK?" appears on the front panel display. y · Check the speaker connections (see page 9) and adjust the "SPEAKERS" settings back in step 6, if necessary. · The indicator of the speaker currently outputting the test tone flashes on the front panel display. 9 Press ll / h to select the desired settings. Choice YES* NO Function Completes the setup procedure if the test tone levels from each speaker were satisfactory. Proceeds to the speaker level adjustment menu to balance the output level of each speaker. 10 5 Press ln to select "SUBWOOFER" and then ll / h to select the desired setting.

"SUBWOOFER" and the current setting appear on the front panel display. Choice YES* NONE Condition When you have a subwoofer in your system. When you do not have a subwoofer in your system. Press IENTER to confirm your selection. · If you selected "YES" in step 9, the setup procedure is completed and then display returns to the top set menu display. Press kMENU to exit from "BASIC SETUP." · If you selected "NO" in step 9, the front speaker level adjustment display appears on the front panel display. Press lk / n to select a speaker and then ll / h to adjust the balance. The selected speaker and the front left speaker (or the surround left speaker) output a test tone in turn. · Press lh to increase the value.

· Press ll to decrease the value. The balance between speakers you can adjust in each item is defined as follows. Choice FR C SL SR SWFR Adjusted balance between speakers the front left and right speakers the front left and center speakers the front left and surround left speakers the surround left and surround right speakers the front left speaker and the subwoofer 11 6 Press ln to select "SPEAKERS" and then ll / h to select the number of speakers connected to this unit. "SPEAKERS" and the current setting appear on the front panel display. Choice 2spk 3spk 4spk 5spk* Display L L L SL R CR R SR Speakers Front L/R Front L/R Center Front L/R, Surround L/R Front L/R, Center, Surround L/R LCR SL SR 7 Press ln to select "SET" and then ll / h to select the desired settings.

"SET" and "CANCEL" appear on the front panel display. Note · The available speaker channels differ depending on the setting of the speakers. 12 Press kMENU to exit from "BASIC SETUP." 16 En BASIC OPERATION Playback INTRODUCTION Caution Extreme caution should be exercised when you play back CDs encoded in DTS. If you play back a CD encoded in DTS on a DTS-incompatible CD player, you will only hear some unwanted noise that may damage your speakers.

Check whether your CD player supports CDs encoded in DTS. Also, check the sound output level of your CD player before you play back a CD encoded in DTS. 5 Rotate PVOLUME (or press mVOLUME +/) to adjust the volume to the desired output level. PREPARATION Basic procedure 1 2 Turn on external components (TV, DVD player, etc.) connected to this unit. Press CSPEAKERS repeatedly to select the front speakers you want to use. The respective speaker indicators lights up on the front panel display. Press NINPUT ll / h repeatedly (or press one of the input selector buttons (f)) to select the desired input source. The name of the currently selected input source appears on the front panel display for a few seconds. Available input source DVR V-AUX DTV/CBL DVD MD/CD-R TUNER CD y · See page 19 to adjust the level of each speaker.



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· This does not affect the AUDIO OUT (REC) level. · You can set the initial volume level and maximum volume level (see page 34). BASIC OPERATION 6 3 Press LPROGRAM 1 / h (or press hAMP and then qPROG 1 / h) repeatedly to select the desired sound field program. The name of the selected sound field program appears on the front panel display. See page 21 for details about sound field programs. ADVANCED OPERATION Movie Dramatic Currently selected surround field program ADDITIONAL INFORMATION INPUT: DVD Currently selected input source Notes · Choose a sound field program based on your listening preference, not merely on the name of the program. · When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source. · Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 18). · When PCM signals with a sampling frequency higher than 48 kHz are input, this unit is automatically set to the "STRAIGHT" mode (see page 26). · To display information about the currently selected input source on the front panel display, see page 20 for details.

4 Start playback on the selected component or select a broadcast station. Notes · Refer to the operating instructions for the source component. · See page 27 for details about FM or AM tuning instructions. y · To adjust the level of each speaker, see page 19. APPENDIX English 17 En Playback Guide to contents When you want.

.. Adjust the tonal quality of the front speakers Edit parameters of sound field programs Enjoy the sources which have wide dynamic range at night Use headphones Select a decoder to play back sources with Set this unit to the standby mode automatically See page 19 Selecting the component connected to the MULTI CH INPUT jacks as the input source Use this feature to select the component connected to the MULTI CH INPUT jacks (see page 14) as the input source. Press NINPUT 1 / h repeatedly (or press hAMP and then press vMULTI CH IN) to select "MULTI CH." "MULTI CH" appears on the front panel display.

y · You can configure the multi channel input settings in "MULTI CH" (see page 14). 26 19 19 26 Notes · Sound field programs, or the night listening mode, etc. cannot be selected when "MULTI CH" is selected as the input source. · When headphones are used, signals are output only from the front left and right channels. 20 Additional operations Using input setting features Use the following features to select input jack or input source. Selecting the front speaker set Selecting audio input jacks (AUDIO SELECT) Use this feature (audio input jack select) to switch the input jack assigned to an input source when two or more jacks are assigned to an input source. y · We recommend that you set the audio input jack select to "AUTO" in most cases. · You can adjust the default audio input jack select of this unit by using "AUDIO SELECT" in "OPTION MENU" (see page 36). Press CSPEAKERS repeatedly change the active front speaker set that is connected to the FRONT A or FRONT B speaker terminals or turn off the front speakers. The active front speaker set changes as follows: FRONT A FRONT B 1 Press NINPUT 1 / h repeatedly (or press one of the input selector buttons (f)) to select the desired input source.

Press hAMP and then wAUDIO SEL repeatedly to select the desired Audio input jack select setting. DVR V-AUX DTV/CBL DVD MD/CD-R TUNER CD 2 OFF A.SEL: AUTO Audio input jack select setting Note · Turn off the volume level of this unit before you switch the front speaker setting. Using the Zone B feature When you set "FRONT B" to "ZONE B" (see page 32), you can use the speakers connected to FRONT B speaker terminals in another room (Zone B). Press CSPEAKERS on the front panel repeatedly to turn on or off the Zone B speakers. When you activate the Zone B speakers, all the speakers in the main room are muted. Notes · You cannot activate both the main room and Zone B speakers simultaneously. · If you select CINEMA DSP sound field program and activate the Zone B speakers, Virtual CINEMA DSP is activated automatically (see page 26). Choice AUTO Function Automatically selects input signals in the following order: (1) Digital signals (2) Analog signals Selects only analog signals. If no analog signals are input, no sound is output.

ANALOG y · You can configure the audio input jack select setting in "AUDIO SELECT." Note · This feature is not available if no digital input jack is assigned to the selected input source in "INPUT ASSIGN" (see page 34). 18 En Playback Using audio features Use the following features to adjust the audio output or speaker level. Muting the audio output y · Once you press jBAND LEVEL TITLE on the remote control, you can also select the speaker by pressing lk / n. · The available speaker channels differ depending on the speaker settings.

INTRODUCTION 2 Press eMUTE on the remote control to mute the audio output. Press eMUTE again to resume the audio output. · You can also rotate PVOLUME (or press mVOLUME +/-) to resume the audio output. · You can configure the muting level by using "MUTE TYP." in "SOUND MENU" (see page 34).

· The MUTE indicator flashes on the front panel display when the audio output is muted and disappears from the front panel display when the audio output is resumed. Press ll / h on the remote control (or press FPRESET/TUNING 1 / h) to adjust the speaker output level. Control range: 10.0 dB to +10.0 dB y Using optional features Use the following features to utilize various useful functions equipped on this unit. Using your headphones PREPARATION Adjusting the tonal quality Use this feature to adjust the balance of bass and treble for the front left and right speaker channels. Press Ktone CONTROL repeatedly to select "BASS" or "TREBLE" and then press LPROGRAM 1 / h to adjust the corresponding frequency response level. Control range: 10 to +10 dB Each choice is defined as follows. Choice BASS TREBLE Function Adjusts the low-frequency response. Adjusts the high-frequency response.

Connect a pair of headphones with a stereo analog audio cable plug to the PHONES jack on the front panel. y · When you select a sound field program, SILENT CINEMA mode is automatically activated (see page 26). BASIC OPERATION Notes · When you connect headphones, no signals are output at the speaker terminals. · All Dolby Digital and DTS audio signals are mixed down to the left and right headphone channels. Selecting the night listening mode The night listening modes are designed to improve listenability at lower volumes or at night.



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ADVANCED OPERATION 1 Notes · Speaker and headphone adjustments are stored independently. · If you increase or decrease the high-frequency or low-frequency sound to an extreme level, the tonal quality of the surround speakers may not match that of the front left and right speakers. · This does not affect recorded material. Press ONIGHT (or press hAMP and then uNIGHT) repeatedly to select "NIGHT:CINEMA" or "NIGHT:MUSIC." Each choice is defined as follows.

Choice NIGHT:CINEMA Function Narrows the dynamic range of film soundtracks and makes dialog easier to hear at lower volumes. Preserves ease-of-listening for all sounds. Disables this feature. **ADDITIONAL INFORMATION** Adjusting the speaker level You can adjust the output level of each speaker while listening to a music source. This is also possible when playing sources input at the MULTI CH INPUT jacks.

Note · This operation will override the level adjustment made in "SP LEVEL" (see page 33). NIGHT:MUSIC NIGHT OFF y · When a night listening mode is selected, the NIGHT indicator lights up on the front panel display. **APPENDIX 1** Press hAMP and then press jBAND LEVEL TITLE repeatedly to select the speaker you want to adjust. Choice FRONT L FRONT R CENTER SWFR SUR.L SUR.

R Description Front left speaker Front right speaker Center speaker Subwoofer Surround left speaker Surround right speaker 2 Press ll / h to adjust the effect level while "NIGHT:CINEMA" or "NIGHT:MUSIC" is displayed on the front panel display. Each choice is defined as follows. Choice MIN MID* MAX Function Slightly lowers the effect level. English Moderately lowers the effect level. Considerably lowers the effect level. 19 En Playback y · "NIGHT:CINEMA" and "NIGHT:MUSIC" adjustments are stored independently. Notes · You cannot use the night listening modes in the following cases: when the component connected to the MULTI CH INPUT jacks is selected as the input source. when headphones are connected to the PHONES jack. when the sampling frequency of the input sources are higher than 48 kHz. · The effect of night listening modes may vary depending on the input source and surround sound settings you use.

Using the sleep timer Use this feature to automatically set this unit to the standby mode after a certain amount of time. The sleep timer is useful when you are going to sleep while this unit is playing or recording from a source. Press hAMP and then press xSLEEP repeatedly to set the amount of time. The sleep timer setting changes as follows. SLEEP 120min SLEEP OFF SLEEP 30min SLEEP 90min SLEEP 60min Displaying the input source information (SIGNAL INFO)

You can display the format, sampling frequency, channel, bit rate and flag data of the current input signal. 1 Press hAMP and then press kMENU on the remote control. "BASIC SETUP" appears on the front panel display. Once the sleep timer is set, the SLEEP indicator lights up on the front panel display, and the display returns to the selected sound field program. To cancel the sleep timer Press xSLEEP on the remote control repeatedly to select "SLEEP OFF." y · If you set the main zone to the standby mode, the sleep timer is automatically canceled.

;BASIC SETUP 2 3 Press lk / n repeatedly to select "SIGNAL INFO" and then press lENTER. Press lk / n to switch the displayed information. The following information about the input source appears on the front panel display. Choice FORMAT SAMPLING Description Signal format. The number of samples per second taken from a continuous signal to make discrete signals.

The number of source channels in the input signal (front/surround/LFE). The number of bits passing a given point per second. Flag data encoded in DTS, Dolby Digital, or PCM signals that cue this unit to automatically switch decoders. Playing video sources in the background You can combine a video image from a video source with sound from an audio source. For example, you can enjoy listening to classical music while viewing beautiful scenery from the video source on the video monitor.

Press the input selector buttons (f) on the remote control to select a video source and then an audio source. CD MD/CD-R TUNER Audio sources DVD DTV/CBL DVR Video sources V-AUX/DOCK CHANNEL BITRATE FLAG DVD DTV/CBL DVR Video sources V-AUX/DOCK 4 Press kMENU on the remote control again to exit from "SET MENU." MULTI CH IN 9 Audio sources 20 En Selecting the SCENE templates Just by pressing one SCENE button, you can recall your favorite input source and sound field program according to the SCENE template that has been assigned to the SCENE button. The SCENE templates are built combinations of input sources and sound field programs. This unit is equipped with 13 preset SCENE templates for various situations. The following SCENE templates are assigned to respective SCENE buttons in the default settings. Default SCENE button The name of the SCENE template and its description DVD Viewing input source: DVD sound field program: STRAIGHT For when you want to enjoy a DVD playback. Disc Listening input source: DVD sound field program: 5ch Stereo For when you want to listen to a music disc from the connected DVD player as the background music for this room. TV Viewing *1 input source: DTV/CBL sound field program: STRAIGHT For when you want to watch a TV program. Radio Listening *2, *3, *4 input source: TUNER sound field program: Music Enh.

5ch For when you want to listen to a music program from the FM radio station. Selecting the desired SCENE template If you want to use other SCENE templates, you can select the desired SCENE templates from the SCENE template library and assign the templates to the selected SCENE buttons on the front panel and the remote control. Select the desired SCENE template **INTRODUCTION PREPARATION 1 SCENE 1 SCENE template library (Image)** Assign the SCENE template to the SCENE button 1 SCENE 2 Press and hold the desired JSCENE (or iSCENE) button for 3 seconds. The MEMORY indicator on the front panel starts to flash, and the name of currently assigned SCENE template appears on the front panel display. **BASIC OPERATION SCENE 3 DVD Viewing 2** Press NINPUT l / h (or press hAMP and then ll / h) to select the desired template. **ADVANCED OPERATION SCENE 4 DVD Movie View Notes *1** You must connect a cable TV or a satellite tuner to this unit in advance. See page 13 for details. *2 You need to connect the supplied FM and AM antennas to this unit in advance. See page 15 for details. *3 You have to tune into the desired radio station.

See pages 27 to 28 for the tuning information. *4 To achieve the best possible reception, orient the connected AM loop antenna, or adjust the position of the end of the indoor FM antenna.



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