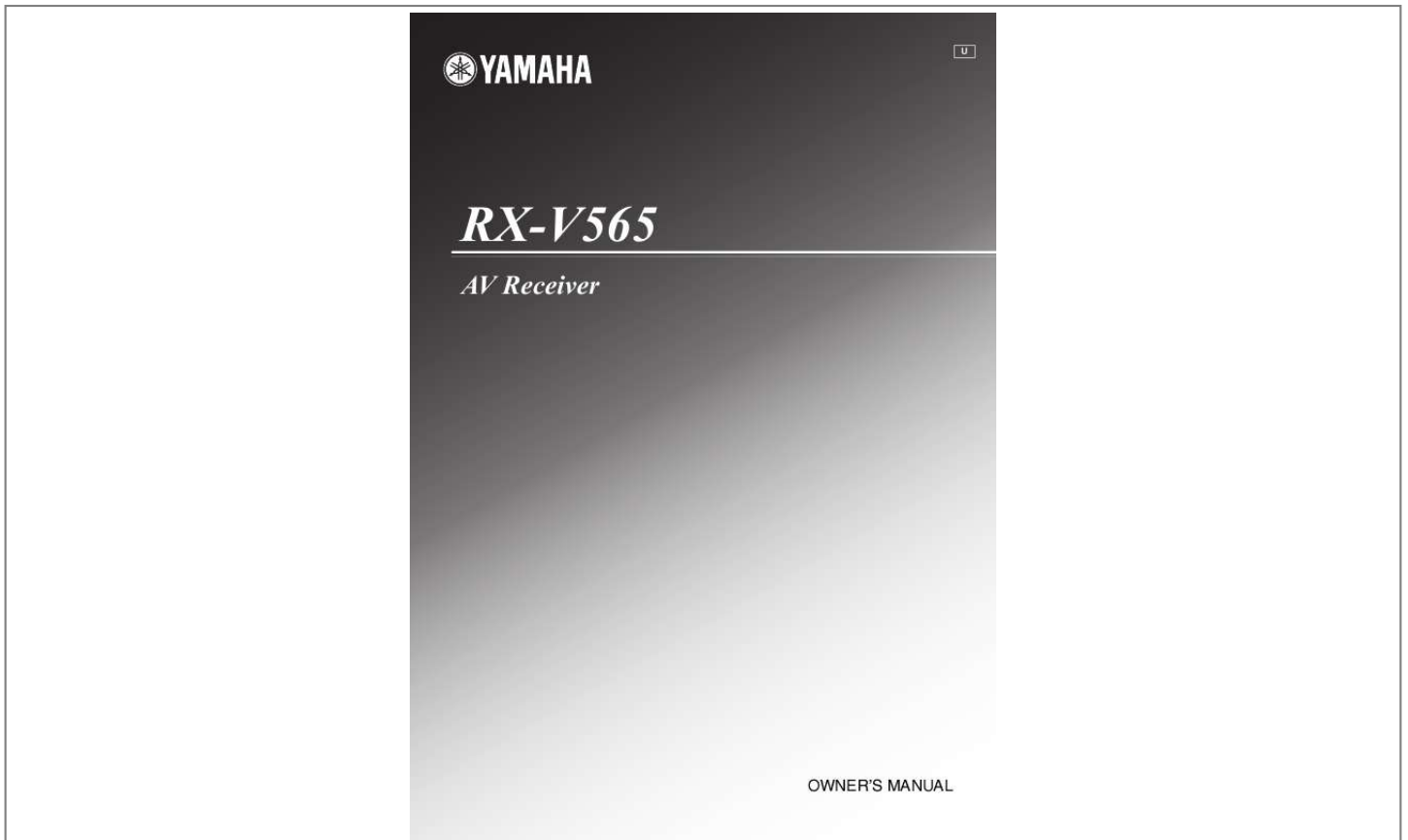




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA RX-V565. You'll find the answers to all your questions on the YAMAHA RX-V565 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual YAMAHA RX-V565**  
**User guide YAMAHA RX-V565**  
**Operating instructions YAMAHA RX-V565**  
**Instructions for use YAMAHA RX-V565**  
**Instruction manual YAMAHA RX-V565**



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**Manual abstract:**

@@@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 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. 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.

@@@Refer all servicing to qualified service personnel. @@@@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. 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- i 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 qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons. 15 When not planning to use this unit for long periods of time (i.e.

vacation), disconnect the AC power plug from the wall outlet. 16 Install this unit near the AC outlet and where the AC power plug can be reached easily. 17 Be sure to read the "Troubleshooting" section on common operating errors before concluding that this unit is faulty. 18 Before moving this unit, press ASTANDBY/ON to set this unit in the standby mode, and disconnect the AC power plug from the wall outlet. 19 VOLTAGE SELECTOR (Asia and General models only) The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC wall outlet.

Voltages are: .....

..AC 110/120/220/230240 V, 50/60 Hz (General model) .....

.....

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... AC 220/230240 V, 50/60 Hz (Asia model) 20 The batteries shall not be exposed to excessive heat such as sunshine, fire or like. 21 Excessive sound pressure from earphones and headphones can cause hearing loss.

22 When replacing the batteries, be sure to use batteries of the same type. Danger of explosion may happen if batteries are incorrectly replaced. WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by A STANDBY/ON.



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*In this state, this unit is designed to consume a very small quantity of power. FOR CANADIAN CUSTOMERS To prevent electric shock, match wide blade of plug to wide slot and fully insert. This Class B digital apparatus complies with Canadian ICES-003. POUR LES CONSOMMATEURS CANADIENS Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. IMPORTANT Please record the serial number of this unit in the space below.*

*MODEL: Serial No.: The serial number is located on the rear of the unit. Retain this Owner's Manual in a safe place for future reference. Caution-ii En*

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..... 4dot; HDMI interface for standard, enhanced or highdefinition video as well as multi-channel digital audio. Automatic audio and video synchronization (lip sync) information capability Deep Color video signal (30/36 bit) transmission capability "x.

v. Color" video signal transmission capability High refresh rate and high resolution video signals capability High definition digital audio format signals capability · Analog video to HDMI digital video up-conversion (composite video HDMI, component video HDMI) capability for monitor out · Analog video input up-scaling for HDMI digital video output 480i or 480p 720p, 1080i or 1080p DOCK terminal · DOCK terminal to connect a Yamaha iPod universal dock (such as YDS-11, sold separately) or Bluetooth wireless audio receiver (such as YBA-10, sold separately) Automatic speaker setup features · "YPAO" (Yamaha Parametric Room Acoustic Optimizer) for automatically optimizing speaker outputs suitable for listening environments. Other features · 192-kHz/24-bit D/A converter · OSD (on-screen display) menus that allow you to optimize this unit to suit your individual audiovisual system · Direct mode for pure hi-fi sound for all sources · Adaptive dynamic range controlling capability & matches this unit between standby and on (see page 17). Changes a sound field program to direct mode (see page 22). PHONES jack For plugging headphones (see page 22). INPUT 1/h Selects an input source (see page 21). INFO Changes information display screens on the front panel display (see page 23). OPTIMIZER MIC jack For connecting the supplied optimizer microphone and adjusting output characteristics of speakers (see page 18). D E F G H I MEMORY Registers FM/AM stations as preset stations (see page 29). P Q VOLUME control Controls the volume of this unit (see page 21).

PRESET 1/h Selects an FM/AM preset station (see page 29). VIDEO (VIDEO AUX) jack For connecting the video output cable of a camcorder or game console (see page 16). FM Sets the FM/AM tuner band to FM (see page 28). R AUDIO L/R (VIDEO AUX) jack For connecting the audio output cable of a camcorder or game console (see page 16). AM Sets the FM/AM tuner band to AM (see page 28).

TUNING 1/h Changes FM/AM tuner frequencies (see page 28). S PORTABLE (VIDEO AUX) jack For connecting the audio output cable of a portable music player (see page 16). SCENE Switches between linked sets of input sources and sound field programs (see page 21). T U Front panel display Displays information on this unit (see page 6). J TONE CONTROL Adjusts high-frequency/low-frequency output of speakers (see page 22).

HDMI THROUGH Lights up during pass-through output of an HDMI signal input to this unit while this unit is on standby (see page 42). K L PROGRAM 1/h Changes sound field programs (see page 24). STRAIGHT Changes a sound field program to straight decoding mode (see page 27). 4 En Part names and functions Rear panel a b d k INTRODUCTION SPEAKERS (BD/DVD) DOCK COMPONENT VIDEO HDMI OUT HDMI 1 HDMI 2 HDMI 3 HDMI 4 FRONT CENTER SURROUND SURROUND BACK/BI-AMP ANTENNA COMPONENT VIDEO UNBAL. PR PR PREPARATION PB VIDEO FM GND AM PB VIDEO Y Y MONITOR OUT OPTICAL ( TV ) COAXIAL COAXIAL (CD) OPTICAL AV 1 AV 2 AV 3 AV 4 AV 5 AV 6 AV OUT AUDIO1 AUDIO2 AUDIO

OUT SUBWOOFER PRE OUT BASIC OPERATION e a DOCK terminal f g h i j For connecting an optional Yamaha iPod universal dock (YDS11) or Bluetooth wireless audio receiver (YBA-10) (see page 16). b HDMI OUT/HDMI 1-4 For connecting an HDMI-compatible video monitor or external components for HDMI inputs 1-4 (see page 15). ADVANCED OPERATION c d ANTENNA jack For connecting supplied FM and AM antennas (see page 17). SPEAKERS terminal For connecting front right and left, center, surround and surround back speakers (see page 11). e AV 1-6 ADDITIONAL INFORMATION For connecting external components for audio/visual inputs 1-6 (see page 15). f AV OUT Outputs audio/visual signals from a selected analog input source to an external component (see page 16).

g AUDIO 1/2 For connecting external components for audio inputs 1-2 (see page 16). h MONITOR OUT Outputs visual signals from this unit to a video monitor, such as a TV (see page 14). APPENDIX i AUDIO OUT Outputs audio signals from a selected analog input source to an external component (see page 16). j PRE OUT For connecting a subwoofer with a built-in amplifier (see page 11). k Power Cable For connecting this cable to an AC wall outlet (see page 17). English 5 En Part names and functions Front panel display a b c d SLEEP STEREO TUNED f VOL.



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**MUTE** e SW C L R SL SR SBL SB SBR g a HDMI indicator Lights up during normal communication when HDMI is selected as an input source. h g i b CINEMA DSP indicator Lights up when a sound field program that uses CINEMA DSP is selected. c Tuner indicator Lights up while receiving a radio broadcast signal from an FM/AM station (see page 28). d e f g SLEEP indicator Lights up when the sleep timer is activated (see page 22). **VOLUME** indicator Displays volume levels. **MUTE** indicator Flashes when audio is muted. **Cursor indicators** Light up if corresponding cursors on the remote control are available for operations. h i Multi information display Displays menu items and settings for the current operation. **Speaker indicators** Indicate speaker terminals from which signals are currently output.

**Subwoofer** Front L Surround L Surround back L L R SL SR SBL SB SBR SW C Center Front R Surround R Surround back R Surround back 6 En Part names and functions Remote control g Input selection keys HDMI 1-4 AV 1-6 AUDIO 1/2 V-AUX [A]/[B] Selects HDMI inputs 1 through 4. Selects AV inputs 1 through 6. Selects AUDIO inputs 1 and 2. Selects the V-AUX jack on the front panel of this unit. To control external components using the rExternal component operation keys separately from operations of this unit (see page 44). Selects a Yamaha iPod universal dock/ Bluetooth wireless audio receiver connected to the DOCK jack. Selects the FM/AM tuner. Switches a band between FM and AM. Presets radio stations. Selects a preset station. Changes tuning frequencies. a TRANSMIT CODE SET b c INTRODUCTION d POWER SOURCE POWER SLEEP HDMI e 3 4 3 4 f 1 2 AV 1 2 g AUDIO PREPARATION 5 6 1 2 DOCK V-AUX [A] [B] DOCK TUNER TUNER h AM PRESET TUNING h i j k l n FM Tuner keys FM AM MEMORY PRESET k / n TUNING k / n INFO MEMORY ENHANCER SUR. DECODE MOVIE MUSIC STEREO STRAIGHT DIRECT BASIC OPERATION SCENE BD DVD SETUP TV CD OPTION RADIO i INFO Changes the information shown on the front panel display (see page 23). m j VOLUME Sound selection keys Selects sound field programs (see page 24). ENTER RETURN DISPLAY o p k SCENE ADVANCED OPERATION Switches between linked sets of input sources and sound field programs (see page 21).

**TOP MENU** MENU MUTE q l m SETUP Displays the setup menu (see page 39). r REC OPTION Displays the option menu (see page 33). 1 2 3 4 n Cursors k / n / l / h/ENTER/RETURN Cursors k / n / l / h Select menu items displayed on the front panel display or on a video monitor, or change settings. Confirms a selected item. Returns to the previous screen or ends the menu display. **ADDITIONAL INFORMATION** s 5 6 7 8 9 0 TV 10 ENT INPUT POWER TV VOL TV CH t MUTE ENTER RETURN o p VOLUME +/- Adjust the volume of this unit (see page 21). DISPLAY Changes the operation mode of the iPod connected to the Yamaha iPod universal dock (see page 30). a b c Remote control signal transmitter Transmits infrared signals. q MUTE Turns the mute function of the sound output on and off (see page 22). **APPENDIX TRANSMIT** Lights up when a signal is output from the remote control. **CODE SET** Sets remote control codes for external component operations (see page 44). r External component operation keys Operate recording, playback etc. of external components (see page 44). d e f SOURCE POWER Switches an external component on and off. s t Numeric keys Enter numbers. **SLEEP** Switches the sleep timer operations (see page 22). **TV control keys** Operate a monitor such as a TV or projector. English **POWER** Switches this unit on and standby. 7 En **Quick start guide** When you use this product for the first time, perform setup following the steps below. See the related pages for details on operations and settings.

**Step 1: Prepare items for setup** Prepare speakers, DVD player, cables, and other items necessary for setup. For example, prepare the following items for setting up a 5.1-channel sound system. Front right speaker Video monitor Subwoofer Front left speaker **Step 2: Set up your speakers** Place your speakers in the room and connect them to this unit. · Placing speakers · Connecting speakers y · This unit has a YPAO (Yamaha Parametric Room Acoustic Optimizer) that automatically optimizes this unit based on room acoustic characteristics (audio characteristics of the speakers, speaker positions, and room acoustics, etc.). You can enjoy good balanced sound without special knowledge by using the YPAO technology (see page 18). P. 10 P. 11 **Step 3: Connect your components** Connect your TV, DVD player, or other components.

· Connecting a TV monitor or projector · Connecting other components · Connecting a Yamaha iPod universal dock or Bluetooth wireless audio receiver · Connecting the FM and AM antennas P. 14 P. 15 P. 16 P. 17 Center speaker Components (such as DVD player) Surround right speaker Surround left speaker **Step 4: Turn on the power** Requirements Speakers Front speaker Center speaker Surround speaker Active subwoofer Speaker cable Subwoofer cable Reproduction component such as DVD player Video monitor such as TV Video cable or HDMI cable Audio cable qty. 2 1 2 1 5 1 1 1 2 2 Connect the power cable and turn on this unit. · Connecting the power cable · Turning this unit on and off P. 17 P. 17 **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 sound field programs y · This unit supports the SCENE function that changes the input source and sound field program at one time.

Four scenes are preset for different purposes for Blu-ray disc, DVD and CD, and you can select from those just by pressing a remote control key. See page 21 for details. P. 21 P. 24 y · Prepare two speakers (for front).

The priority of the requirement of other speakers is as follows: 1 Two surround speakers 2 One center speaker 3 One (or two) surround back speaker(s) · If your video monitor is a CRT, we recommend that you use magnetically shielded speakers. 8 En **PREPARATION** Preparing remote control **INTRODUCTION** Installing batteries in the remote control 1 3 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. Remote control sensor window **PREPARATION** 2 30 30 within 6 m (20 ft) **BASIC OPERATION** 1 2 Take off the battery compartment cover. Insert the two supplied batteries (AAA, R03, UM-4) according to the polarity markings (+ and -) on the inside of the battery compartment.



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Snap the battery compartment cover back into place. Notes · Change all batteries if you notice the following conditions: the operation range of the remote control narrows the transmit indicator does not flash or is dim · Do not use old batteries together with new ones. This may shorten the life of the new batteries or cause old batteries to leak. · Do not use different types of batteries (such as alkaline and manganese batteries) together. Specification of batteries may be different even though they look the same. · If you find leaking batteries, discard the batteries immediately, taking care not to touch the leaked material. If the leaked material comes into contact with your skin or gets into your eyes or mouth, rinse it away immediately and consult a doctor. Clean the battery compartment thoroughly before installing new batteries. · Dispose of the old batteries 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.

In such a case, install new batteries and set the remote control code. 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 conditions: places of high humidity, such as near a bath places of high temperatures, such as near a heater or stove places of extremely low temperatures dusty places ADVANCED OPERATION 3 y · You can operate external components with this remote control by setting the remote control code. See page 44 for details. ADDITIONAL INFORMATION APPENDIX English 9 En Connections Placing speakers This unit supports up to 7.1-channel surround. We recommended the following speaker layout in order to obtain the optimum surround effect. 7.1-channel speaker layout C FL FR Speaker channels Front left and right speakers (FL and FR) The front speakers are used for the front channel sounds (stereo sound) and effect sounds.

Place these speakers at an equal distance from the ideal listening position. When using a screen, the appropriate top positions of the speakers are about 1/4 of the screen from the bottom. Center speaker (C) The center speaker is for the center channel sounds (dialog, vocals, etc.). Place it halfway between the left and right speakers.

When using a TV, place the speaker just above or just under the center of the TV with the front surfaces of the TV and the speaker aligned. When using a screen, place it just under the center of the screen. Surround left and right speakers (SL and SR) The surround speakers are used for effect and surround sounds. Place them at the rear left and rear right facing the listening position. To obtain a natural sound flow in the 5.

1-channel speaker layout, place them slightly further back than in the 7.1-channel speaker layout. Surround back left and right speakers (SBL and SBR) / Surround back speaker (SB) The surround back left and right speakers are used for rear effect sounds. Place them at the rear of the room facing the listening position at least 30 cm away from each other, ideally at the same distance as that between the front left and right speakers. In the 6.1-channel speaker layout, surround back left and right channel sound signals are mixed down and output from the single surround back speaker. In the 5.1-channel speaker layout, surround back left and right channel sound signals are output from the surround left and right speakers. Subwoofer (SW) The subwoofer speaker is used for bass sounds and lowfrequency effect (LFE) sounds included in Dolby Digital and DTS signals. Use a subwoofer with a built-in amplifier, such as the Yamaha Active Servo Processing Subwoofer System.

Place it exterior to the front left and right speakers facing slightly inward to reduce reflections from a wall. SW 30° SW SL 60° SR 80° SL SR SBR SBL 30 cm (12 in) or more 6.1-channel speaker layout C FL FR SW 30° SW SL 60° SR 80° SL SR SB 5.1-channel speaker layout C FL FR SW 30° SW SL 60° SR 80° SL SR 10 En Connections Connecting speakers When you connect speakers, connect them to the respective terminals as follows, according to your speaker layout. INTRODUCTION 7.1-channel Speakers Jacks on this unit FRONT (L) FRONT (R) CENTER b a c g f a Front speaker L b Front speaker R c Center speaker SPEAKERS PREPARATION d Surround speaker L DMI 3 HDMI 4 FRONT CENTER SURROUND SURROUND BACK/BI-AMP SURROUND (L) SURROUND (R) SURROUND BACK/BI-AMP (L) SURROUND BACK/BI-AMP (R) SUB WOOFER e Surround speaker R f Surround back speaker L g Surround back speaker R h Subwoofer BASIC OPERATION AUDIO OUT SUBWOOFER 6.1-channel Speakers Jacks on this unit FRONT (L) FRONT (R) CENTER SURROUND (L) SURROUND (R) SURROUND BACK/BI-AMP (L) PRE OUT a Front speaker L e d h b Front speaker R c Center speaker d Surround speaker L e Surround speaker R f Surround back speaker h Subwoofer ADVANCED OPERATION ADDITIONAL INFORMATION SUB WOOFER 5.1-channel Speakers Jacks on this unit FRONT (L) FRONT (R) CENTER a Front speaker L b Front speaker R c Center speaker d Surround speaker L e Surround speaker R h Subwoofer APPENDIX SURROUND (L) SURROUND (R) SUB WOOFER English 11 En Connections Connecting the speaker cable Caution · A speaker cable is a pair of insulated cables running side by side in general. One of the cables is colored differently or striped to indicate a polarity. Connect one end of the colored/striped cable to the "+" (red) terminal of this unit and the other end to that of your speaker, and connect one end of the other cable to the "" (black) terminal of this unit and the other end to that of your speaker.

· Before connecting the speakers, be sure to disconnect the power cable. · Do not let the bare speaker wires touch each other or any metal part of this unit. This could damage this unit and/or speakers. If the circuit shorts out, "CHECK SP WIRES!" appears on the front panel display when this unit is turned on. · Use magnetically shielded speakers.

If images on the monitor are still distorted even when you use the magnetically shielded speakers, place the speakers away from the monitor. · Use speakers with an impedance of 6-ohm or larger. Set speaker impedance in "ADVANCED SETUP" before connecting the speakers (see page 45). Connecting to the FRONT terminals Remove approximately 10 mm (0.4 in) of insulation from the end of each speaker cable and then twist bare wires of the cable together so that they will not cause a short circuits.

10 mm (0.4 in) 1 Connecting to the CENTER, SURROUND, SURROUND BACK/BI-AMP terminals Press down the tab and insert the bare end of the speaker cable into the hole in the terminal.



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Red: positive (+) Black: negative (-) 1 2 Loosen the knob, insert the twisted bare wires into the hole, and then tighten the knob. 2 Release the tab to secure the wire. Using bi-amplification connections You can connect speakers that support bi-amplification connections to this unit. Before connecting the speakers, set this unit to enable bi-amplification connections in "ADVANCED SETUP" (see page 45), and connect the speakers to this unit as shown below. Front speakers Right Left 2 1 3 Connecting the banana plug (Except U.K., Europe, Asia and Korea models) Tighten the knob, and then insert the banana plug into the end of the terminal. Banana plug Red: positive (+) Black: negative (-) FRONT SURROUND BACK/BI-AMP This unit Caution Before making bi-amplification connections, remove any or cables that connect a woofer with a tweeter.

Refer to the instruction manuals of speakers for details. When not making bi-amplification connections, make sure that the brackets or cables are connected before connecting the speaker cables. 12 En Connections Information on jacks and cable plugs This unit has the following input and output jacks. Use jacks and cables appropriate for components that you are connecting. Audio jacks Jack and cables AUDIO jacks (white) INTRODUCTION Description To transmit conventional analog left and right audio signals. Use stereo pin cables. Connect red plugs to red jacks (R) and white plugs to white jacks (L). Video/audio jacks Jack and cables Description To transmit digital video and digital audio signals. Use HDMI cables. HDMI jacks HDMI L R AUDIO PREPARATION y · We recommend that you use a commercially available 19-pin HDMI cable no longer than 5 meters (16 feet) with the HDMI logo printed on it.

· You can check the potential problem about the HDMI connection (see page 23). · You can check error information on HDMI connections (see page 23). (red) COAXIAL jacks (orange) To transmit coaxial digital audio signals. Use pin cables for digital audio signals. C COAXIAL OPTICAL jacks O OPTICAL To transmit optical digital audio signals.

Use optical fiber cables for optical digital audio signals. Video jacks Jack and cables Description To transmit conventional composite video signals. Use video pin cables. A video signal input to this unit is output from the output terminals in MONITOR OUT for the same kind of signal as the input signal. For example, if a VCR with a composite output signal and a DVD player with a COMPONENT VIDEO output signal are connected, connect both VIDEO jack and COMPONENT VIDEO jack in MONITOR OUT to the video monitor.

If an HDMI input compatible monitor is connected, this unit automatically converts an analog signal that is input from a video input terminal to a digital video signal, and then output it from the HDMI OUT jack. Input HDMI BASIC OPERATION ADVANCED OPERATION VIDEO jacks VIDEO Output HDMI V (yellow) ADDITIONAL INFORMATION COMPONENT VIDEO COMPONENT VIDEO COMPONENT VIDEO jacks COMPONENT VIDEO PR PR (red)

To transmit component video signals that include luminance (Y), chrominance blue (PB) and chrominance red (PR) components. Use component video cables. PR PB Y PR PB Y VIDEO VIDEO Repeat Converted PB PB (blue) Y Y APPENDIX (green) English 13 En Connections Connecting a TV monitor or projector Connect a video monitor such as a TV or projector to an output terminal of this unit. You can select one of the following three types according to the input signal format supported by the video monitor. Note · When you connect this unit to the video monitor, make sure that this unit is on standby. TV, or projector Outputting sound of a TV from this unit c b a To output sound of a TV from this unit, make connection between the AV input 1-6 and an audio output terminal. If the TV supports an optical digital output, we recommend that you use the AV input 1. Connecting to the AV input 1 allows you to switch an input source to the AV input 1 with just a single key operation using the SCENE function (see page 21). Y PB PR V HDMI TV, or projector Digital output (optical) (BD/DVD) HDMI OUT HDMI 1 HDMI 2 HD ANTENNA COMPONENT VIDEO UNBAL.

PR FM GND AM PB VIDEO UNBAL. PR P Y MONITOR OUT PB VIDEO FM GND AM P Y Y To connect an HDMI video monitor Jacks on components Jacks on this unit HDMI OUT O OPTICAL ( TV ) COAXIAL COAXIAL (CD) OPTICAL AV 1 AV 2 AV 3 AV 4 AV 5 AV 6 a HDMI input AV OUT AUDIO1 To connect component video monitor Note · Only video signals input from this unit via the component input terminal are output from the component output terminal. Jacks on components b Component video output Jacks on this unit MONITOR OUT (COMPONENT VIDEO) To connect composite video monitor

Note · Only video signals input from this unit via the composite video input terminal are output from the composite video output terminal. Jacks on components c Video input (composite) Jacks on this unit MONITOR OUT (VIDEO) 14 En Connections Connecting other components This unit has input and output terminals for respective input and output sources. You can reproduce sound and movies from input sources selected with the front panel display or remote control. Note · When you connect this unit to the external components, make sure that this unit is on standby. Audio / video input (AV 1-6) Audio / video output (AV OUT) INTRODUCTION HDMI input (HDMI 1-4) (BD/DVD) PREPARATION DOCK COMPONENT VIDEO HDMI OUT HDMI 1 HDMI 2 HDMI 3 HDMI 4 FRONT CE ANTENNA COMPONENT VIDEO UNBAL. PR PR PB VIDEO FM GND AM PB VIDEO Y Y MONITOR MONITO OUT BASIC OPERATION Audio output (AUDIO OUT) OPTICAL ( TV ) COAXIAL COAXIAL (CD) OPTICAL AV 1 AV 2 AV 3 AV 4 AV 5 AV 6 AV OUT AUDIO1

AUDIO2 AUDIO OUT Audio input (AUDIO 1-2) ADVANCED OPERATION Audio and video player / Set-top box Output jacks on the connected external component External components Input sources/jacks of this unit Signals Audio/Video Output jacks HDMI output HDMI 1 (BD/DVD) HDMI 2 HDMI 3 HDMI 4 HDMI 1 HDMI 2 External component with HDMI output ADDITIONAL INFORMATION HDMI 3 HDMI 4 OPTICAL COMPONENT VIDEO External component with component video output Audio Video Audio Video Optical digital output Component video Coaxial digital output Component video output Coaxial digital output Composite output Optical digital output Composite output Analog audio output Composite output Analog audio output Composite output AV 1 (TV) AV 2 COAXIAL COMPONENT VIDEO External component with composite video output Audio Video Audio Video Audio Video Audio Video AV 3 (CD) COAXIAL VIDEO APPENDIX AV 4 OPTICAL VIDEO AV 5 AUDIO VIDEO AV 6 AUDIO VIDEO y · Input sources in parentheses are recommended to connect to the respective jacks.



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If your Yamaha component has the Remote in/out terminal, you can switch the input source to that component with a single key operation using the SCENE function (see page 21). · You can change the name of the input source displayed on the front panel display or the OSD on the video monitor as necessary (see page 43).

English 15 En Connections Audio player Output jacks on the connected external component Input sources/jacks of this unit External components Output jacks Optical digital output AV 1 (TV) AV 4 Coaxial digital output AV 2 AV 3 (CD) Analog audio output AV 5 AV 6 AUDIO 1 AUDIO 2 OPTICAL OPTICAL COAXIAL COAXIAL AUDIO AUDIO AUDIO AUDIO External component with optical digital output External component with coaxial digital output External component with analog audio output y · We recommend connecting the coaxial digital output terminal of a CD player to the AV3 jack. About audio/video output terminals Among the analog audio and analog video signals input to this unit via input terminals, the audio/video signals of the selected input sources are output from the AV OUT jack and AUDIO OUT jack. An HDMI input signal, COMPONENT VIDEO input signal or digital audio input signal cannot be output. When using the AV OUT jack: connect an external component to the composite or analog audio terminal. When using the AUDIO OUT jack: connect an external component to the analog audio terminal.

Connecting a Yamaha iPod universal dock or Bluetooth™ wireless audio receiver This unit has the DOCK jack, to which you can connect a Yamaha iPod universal dock (YDS-11, sold separately) or a Bluetooth wireless audio receiver (YBA-10, sold separately). You can play an iPod or a Bluetooth component with this unit by connecting it to the DOCK jack. Use a dedicated cable for connection between the dock/ receiver and this unit. 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. Be sure to turn down the volume of this unit and other components before making connections.

VOLUME I PRESET h FM AM I TUNING h SCENE BD/DVD TV CD RADIO OGRAM STRAIGHT DIRECT INPUT OPTIMIZER MIC VIDEO AUX h EFFECT I h VIDEO AUDIO PORTABLE DOCK COMPONENT VIDEO HDMI OUT ANTENNA UNBAL. VIDEO L AUDIO R PORTABLE PR PB VIDEO FM GND Y Video output Analog audio output Analog audio output V L R Yamaha iPod universal dock/Bluetooth wireless audio receiver Game console/Camcorder Music player Note · When external components are connected both the PORTABLE jack and AUDIO jack, sound input from the PORTABLE jack is output. 16 En Connections Connecting the FM and AM antennas An indoor FM antenna and an AM loop antenna are supplied with this unit. Connect these antennas properly to the respective jacks. Connecting the power cable After all connections are complete, plug the AC power cable of this unit into an AC wall outlet. INTRODUCTION To the AC wall outlet Indoor FM antenna Outdoor AM antenna Connect a 5 to 10 m (16 to 33 ft) vinyl-covered wire, and extend it outdoors (use the AM loop antenna together with this antenna). (BD/DVD) AM loop antenna PREPARATION Power cable DOCK COMPONENT VIDEO UNBAL. HDMI OUT HDMI 1 HDMI 2 HDMI 3 F ANTENNA COMPONENT VIDEO PR PR PB VIDEO FM GND AM PB VIDEO Y Y MONITOR OUT Ground (GND terminal) The GND terminal is not for earth grounding. To reduce noises, connect a ground bar or a vinyl-covered wire with a copper plate at its tip, and place it in the moist ground. BASIC OPERATION Turning this unit on and off 1 Press ASTANDBY/ON on the front panel (or fPOWER on the remote control) to turn on this unit.

Press ASTANDBY/ON (or fPOWER) again to turn off this unit (standby mode). y · The supplied antennas are normally sensitive enough to obtain good reception. · Position the AM loop antenna away from this unit. · If you cannot get good reception, we recommend that you use an outdoor antenna. For more details, consult the nearest authorized Yamaha dealer or service center. · Always use the AM loop antenna even when the outdoor antenna is connected. ADVANCED OPERATION 2 y Assembling the AM loop antenna · The unit needs a few seconds until ready to play back. · You can also turn on this unit by pressing IScene (or kScene). · This unit consumes a small amount of electricity even in the standby mode. We recommend disconnecting the power cable from the AC wall outlet.

ADDITIONAL INFORMATION Caution Do not unplug this unit while it is turned on. Doing so may damage this unit or cause the settings of this unit to be saved incorrectly. Connecting the AM loop antenna The wires of the AM loop antenna have no polarity. You can connect either wire to the AM terminal and the other to the GND terminal. APPENDIX Press and hold Insert Release English 17 En Optimizing the speaker setting for your listening room (YPAO) This unit has a Yamaha Parametric Acoustic Optimizer (YPAO).

With the YPAO, this unit automatically adjusts the output characteristics of your speakers based on speaker position, speaker performance, and the acoustic characteristics of the room. We recommend that you first adjust the output characteristics with the YPAO when you use this unit. Caution · Be advised that it is normal for loud test tones to be output during the "Auto Setup" procedure. Do not allow small children to enter the room during the procedure. · To achieve the best results, make sure the room is as quiet as possible while the "Auto Setup" procedure is in progress.

If there is too much ambient noise, the results may not be satisfactory. y · See page 39 for the "Manual Setup" procedure. "MIC ON. View OSD MENU" appears on the front panel display. The following menu screen appears on the video monitor. 1 Auto Setup EQ Type;;;Natural . Start [ [ ]/ [ ]:Up/Down [ENTER]:Start [ y · You can bring up the above menu screen from the setup menu (see page 39). Using Auto Setup 1 Check the following points. Before starting the automatic setup, check the following. · All speakers and subwoofer are connected properly.

· Headphones are disconnected from this unit. · The video monitor is connected properly. · This unit and the video monitor are turned on. · This unit is selected as the video input source of the video monitor. · The connected subwoofer is turned on and the volume level is set to about half way (or slightly less). · The crossover frequency controls of the connected subwoofer are set to the maximum. VOLUME CROSSOVER/ HIGH CUT 3 Place the optimizer microphone at your normal listening position on a flat level surface with the omni-directional microphone heading upward.



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Optimizer microphone y · It is recommended that you use a tripod or something similar to fix the optimizer microphone at the same height as your ears would be when seated in your listening position. You can fix the optimizer microphone to the tripod with the attaching screw of the tripod. 4 MIN MAX MIN MAX Subwoofer 2 Connect the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel.

UT OPTIMIZER MIC VIDEO AUX h VIDEO AUDIO PORTABLE To select a sound character for adjustment, press nCursor k to select "EQ Type" and then press nCursor l/h. If this unit does not work when you press nCursor, press ISETUP once and then operate this unit. This unit has a parametric equalizer that adjusts the output levels for each frequency range. The equalizer is adjusted to produce a cohesive sound field based on automatically measured speaker characteristics. In "EQ Type," you can select the following parametric equalizer characteristics suitable for the desired sound characteristics.

Natural This adjusts all speakers to achieve natural sound. Select this if sounds in the high frequency range seem too strong when "EQ Type" is set to "Flat." Optimizer microphone 18 En Optimizing the speaker setting for your listening room (YPAO) Flat This adjusts each speaker to obtain the same characteristics.

Select this if your speakers have similar qualities. Front This adjusts each speaker to obtain the same characteristics as the front left and right speakers. Select this if your front left and right speakers have significantly better qualities than the other speakers. 6 Press nENTER to confirm the settings. The speaker characteristics are adjusted according to measurement results. To cancel the operation, press nCursor l/h to select "Cancel" and press nENTER. When the following screen appears, remove the optimizer microphone. "Auto Setup" is now complete. 1 Auto Setup AUTO SETUP Complete Disconnect Microphone

PRESS [ENTER] [SETUP]:Exit INTRODUCTION 5 Press nCursor n to select "Start" and then press nENTER to start the setup procedure. A countdown starts and a measurement starts in 10 seconds. A loud test tone is output during measurement. Notes · During the automatic setup procedure, do not perform any operation on this unit.

· Press nCursor k to cancel the automatic setup procedure. PREPARATION BASIC OPERATION Measurement takes about 3 minutes. To obtain precise results, stay where you will not disturb the measurement, such as to the side of or behind the speakers or outside the room. When measurement is successfully completed, "YPAO Complete" appears on the front panel display and the results appear on the monitor. 1 Auto Setup RESULT SP : DIST: LVL : . >Set The optimizer microphone is sensitive to heat. Store it in a cool place and away from direct sunlight after measurement. Do not leave it in a place where it will be subjected to high temperatures such as on an AV component. y · If you do not want to apply the measurement results, select "Cancel." · Perform "Auto Setup" again if you change the number or positions of speakers.

· If you press nENTER before removing the optimizer microphone, "1 Auto Setup" of "Speaker Setup" in the setup menu (see page 39) is displayed.

ADVANCED OPERATION 3/4/0.1 8.0/ 8.5ft -3.

5/ +4.5dB Cancel [p ]/[[]]:Select [ENTER]:Finish ADDITIONAL INFORMATION SP Displays the number of speakers connected to this unit in the following order: Total of Front and Center/Total of Surround and Surround Back/Subwoofer DIST Displays the speaker distance from the listening position in the following order: Closest speaker distance/Farthest speaker distance APPENDIX LVL Displays the speaker output levels in the following order: Lowest speaker output level/Highest speaker output level Notes · If "ERROR" appears on the video monitor during "Auto Setup," measurement is canceled and the type of error is displayed. For details, see "When an error message is displayed during measurement" (page 20). · If problems occur during measurement, "WARNING (XX)" (xx indicates the number of warning) appears above "RESULT" (see page 20). English 19 En Optimizing the speaker setting for your listening room (YPAO) When an error message is displayed during measurement Select "Retry" or "Exit" using nCursor l/h and then press nENTER.

ERROR . E-9:USER CANCEL Don't operate any function >Retry Exit When a warning message is displayed after measurement If a problem occurs during measurement, "WARNING" is displayed on the result display screen. Check the error and solve the problems. WARNING W-1:OUT OF PHASE Reverse channel FL --CENTER SL --SBL --[ENTER]:Return [p ]/[[]]:Select [ENTER]:Return Retry Performs "Auto Setup" again. Exit Terminates the measurement and "Auto Setup." y · See page 51 for details on error messages. · When "E-5:NOISY" appears, you can continue measurement. To continue measurement, select "Proceed." However, we recommend that you solve the problem first and then perform measurement again. y · See page 52 for details on warning messages.

· Optimization will not be performed while a warning message is displayed. We recommend that you solve the problem and perform "Auto Setup" again. 1 Check if "" is displayed on the left of "WARNING" and press nENTER. Details of the warning message are displayed. If there are multiple warning messages, you can display the next message using nCursor h. To return to the top result display, press nENTER again. 2 20 En BASIC OPERATION Playback INTRODUCTION Basic procedure 1 2 Turn on external components (TV, DVD player, etc.) connected to this unit. Press NINPUT l/h (or gInput selection keys) to select an input source. The name of the selected input source is displayed for a few seconds.

Input source name VOL. Using the SCENE function This unit has a SCENE function that allows you to change input sources and sound field programs with one key. Four scenes are available for different usages, such as playing movies or music. The following input sources and sound field programs are provided as the initial factory settings. Input source BD/DVD TV CD RADIO HDMI 1 AV 1 AV 3 TUNER Sound field program Straight Straight Straight 7ch Enhancer PREPARATION AV1 y · You can change the input source name displayed on the front panel display or the OSD on the video monitor as necessary (see page 43).

y · When this unit is on standby, you can turn on this unit by pressing the SCENE key. BASIC OPERATION Selecting a SCENE Press IScene (or kSCENE). 3 Play the external component that you have selected as the source input, or select a radio station on the tuner.



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Refer to the operating instructions of the external component for details on playback. For selecting radio stations or playback of an iPod or Bluetooth component using this unit, see the following.

· FM/AM radio tuning (see page 28) · Bluetooth component playback (see page 32) · iPod playback (see page 30) Turn the PVOLUME control to adjust the volume (or press oVOLUME +/-). Volume VOL. SW C Registering input source/sound field program Select the desired input source/sound field program, and pressing down ISCENE (or kSCENE) until "SET Complete" appears on the front panel display. While display in the OPTION menu or SETUP menu, "SCENE Setting Complete" appears on the video monitor (OSD). ADVANCED OPERATION 4 ADDITIONAL INFORMATION Volume -18.5dB Note L SL R SR Switching remotely controlled external components linked to scene selections You can operate an external component with the remote control of this unit by setting a remote control code for the external component for each input source. Setting remote control codes for desired input sources allows you to switch between external components linked to scene selections. When you play back a DTS-CD, noise may be output in some conditions, which may cause a speaker malfunction. Make sure that the volume is set to low before starting playback. If noise is output, do the following.

APPENDIX 1) When only noise is output If a DTS bitstream signal is not properly input to this unit, only noise is output. Connect the playback component to this unit by digital connection and play back the DTS-CD. If the condition is not improved, the problem may result from the playback component. Consult the manufacturer of the playback component. 2) When noise is output during playback or skip operation Before playing back the DTS-CD, display the option menu after selecting the input source and set "Decoder Mode" to "DTS" (see page 33). 1 Register the remote control code of an external component to the desired input source (see page 44). Note · Remote control codes cannot be registered to TUNER input. English 21 En Playback 2 Press gInput selection keys on the remote control for the input source whose remote control code was registered in step 1 for about 3 seconds while pressing down kSCENE key whose assignment you want to change. The external component can now be controlled remotely just by selecting a scene. Enjoying pure hi-fi sound Use Direct mode to enjoy the pure high fidelity sound of the selected source.

When Direct mode is activated, this unit plays back the selected source with the least circuitry. Press MDIRECT (or jDIRECT) to turn the Direct mode on or off. The following features are disabled in Direct mode. · sound field program, tone control · display and operation of the option menu and setup menu y · While direct mode is on, the front panel display screen becomes dim. When setting it back off, the brightness of the screen returns to the previous setting.

Muting audio output temporarily (MUTE) 1 Press qMUTE on the remote control to mute the audio output. The MUTE indicator on the front panel display flashes while audio output is muted. Press qMUTE again to resume audio output. Using the sleep timer The sleep timer is useful if you want to go to sleep while this unit is playing or recording a source. Press eSLEEP repeatedly to set the amount of time.

Each time you press eSLEEP, the front panel display changes as shown below. Sleep 120min. Sleep Off Sleep 90min. Sleep 60min. 2 Adjusting high/low frequency sound (tone control) You can adjust the balance of the high frequency range (Treble) and low frequency range (Bass) of sounds output from the front left and right speakers to obtain desired tone. Sleep 30min. 1 Press JTONE CONTROL on the front panel repeatedly to select "Treble" or "Bass." The current setting is displayed on the front panel display. When the sleep timer is set, the SLEEP indicator on the front panel display lights up. Press eSLEEP on the remote control repeatedly until "Sleep Off" appears on the front panel display.

Treble 2 0.0dB Using your headphones Plug your headphones in the BPHONES jack on the front panel. When you select a sound field program while using the headphones, the mode is automatically set to SILENT CINEMA mode. Notes · When you connect headphones, no signals are output at the speaker terminals. · When multi-channel signals are processed, sounds in all channels are divided to left and right channels. Adjust the frequency range using KPROGRAM 1/h. Control range: 10.0 dB to +10.0 dB The display returns the previous screen soon after you release the key. Notes · The tone control settings are not effective during playback in direct mode.

· If you set the balance extremely off, sounds may not match those from other channels well. 22 En Playback Displaying input signal information When HDMI1-4 or AV1-4 is selected as the input source, you can display audio/video signal information. y · Input signal information is displayed on both a video monitor and the front panel display. · Information on the input signal is also displayed on the front panel display. You can select the desired item using nCursor k/n.

Changing information on the front panel display INTRODUCTION Information displayed on the front panel display can be changed by pressing CINFO (or iINFO). The following information can be displayed according to the input source. For example, if you select HDMI1 input and display "DSP Program," the following screen appears on the front panel display. Input source 1 Select the desired input source, and press mOPTION. The option menu for the selected input source is displayed (see page 33).

Press nCursor k/n to select "Signal Info," and press nENTER. Information on input signals is displayed. See page 34 on messages displayed on the screen. Notes · If an HDMI related error occurs, error information is displayed at the bottom of the screen. · Information on the input signal is also displayed on the front panel display. You can select the desired item using nCursor k/n. PREPARATION 2 Straight Sound field program (DSP program) HDMI1-4: AV1-6: AUDIO1-2: V-AUX: FM/AM: 3 To end the information display, press mOPTION. Input, DSP Program, Audio Decoder Input, DSP Program, Audio Decoder Input, DSP Program, Audio Decoder Input, DSP Program, Audio Decoder Frequency, DSP Program, Audio Decoder iPod (Simple remote mode): Input, DSP Program, Audio Decoder iPod (Menu browse mode): (in PlayInfo displayed) Artist, Album, Song, DSP Program, Audio Decoder (in Play menu displayed) List Bluetooth: Input, DSP Program, Audio Decoder BASIC OPERATION ADVANCED OPERATION ADDITIONAL INFORMATION APPENDIX English 23 En Enjoy the sound field programs This unit is also equipped with a Yamaha digital sound field processing (DSP) chip.



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You can enjoy multi-channel sounds for almost all input sources using various sound field programs stored on the chip and a variety of surround decoders. Selecting sound field programs Selecting a sound field program on the front panel Press KPROGRAM l / h repeatedly to select a desired sound field program.

Selecting a sound field program with the remote control Perform the following operations depending on the category of the sound field programs. Sound field programs for movies/TV programs .....

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..Press jMOVIE repeatedly. Sound field programs for music.....

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.....Press jMUSIC repeatedly.

Stereo reproduction .....

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Press jSTEREO repeatedly. Multi-channel stereo reproduction ....

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.....Press jSTEREO repeatedly. Compressed music enhancer.

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Press jSTEREO repeatedly. Surround decoder ....

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.....Press jSUR.

DECODE repeatedly. For example, if you select "Sci-Fi" in "movie/TV program," the following screen appears on the front panel display. Sound field program category Sci-Fi Program name Notes · Sound field programs are stored for each input source. When you change the input source, the sound field program previously selected for that input source is applied again. · When you play back the Dolby Digital Plus, Dolby TrueHD, DTS Express, DTS-HD

Master Audio, or DTS-HD High Resolution Audio sources, this unit does not apply any sound field program other than the surround decoder and they are played back in straight decode mode. · If the sampling frequency of an input source is higher than 96 kHz, this unit does not apply any sound field programs. Sound field program descriptions This unit provides sound field programs for multiple categories including music, movies and stereo reproduction. Select a sound field program based on your listening preference, not merely on the name of the program, etc. y · You can check what speakers are currently outputting signals with the speaker indicators on the front panel display (see page 6). · Each program can adjust sound field elements (sound field parameters).

For details, see page 36. · in the table indicates the sound field program with CINEMA DSP. For movie/TV program sources Program Standard Descriptions This program creates a sound field emphasizing the surrounding feeling without disturbing the original acoustic positioning of multi-channel audio such as Dolby Digital and DTS. It has been designed with the concept of "an ideal movie theater," in which the audience is surrounded by beautiful reverberations from the left, right and rear. This program represents the spectacular feeling of large-scale movie productions.

It reproduces a broad theater sound field matching the cinemascope and wider-screen movies with an excellent dynamic range from very small to extremely large sound. This program clearly reproduces the finely elaborated sound design of the latest science fiction and special effectsfeaturing movies. You can enjoy a variety of cinematographically created virtual spaces reproduced with clear separation between dialog, sound effects and background music. This program is ideal for precisely reproducing the sound design of action and adventure movies. The sound field restrains reverberations but puts emphasis on reproducing a powerful space expanded widely to the left and right.

The reproduced depth is also restrained relatively to ensure the separation between audio channels and the clarity of the sound. Spectacle Sci-Fi Adventure 24 En Enjoy the sound field programs Program Drama Descriptions This sound field features stable reverberations that match a wide range of movie genres from serious dramas to musicals and comedies. The reverberations are modest but offer an optimum 3D feeling, reproducing effects tones and background music softly but cubically around clear words and center positioning in a way that does not fatigue the listener even after long hours of viewing. This program is provided for reproducing monaural video sources such as a classic movie in an atmosphere of a good old movie theater. The program produces the optimum expansion and reverberation to the original audio to create a comfortable space with a certain sound depth. This program allows the listeners to enjoy stereo sport broadcasts and studio variety programs with enriched live feeling. In sports broadcasts, the voices of the commentator and sportscaster are positioned clearly at the center while the atmosphere of the stadium expands in an optimum space to offer the listeners with a feeling of presence in the stadium. This sound field has been suitable for action games such as car racing and FPS games. It uses the reflection data that limits the effects range per channel in order to offer a powerful playing environment with a being-there feeling by enhancing various effects tones while maintaining a clear sense of directions. This sound field has been suitable for role-playing and adventure games.

It combines the sound field effects for movies and the sound field designs for "Action Game" to represent the depth and 3D feeling of the field during play, while offering movie-like surround effects in the movie scenes in the game. INTRODUCTION Mono Movie Sports PREPARATION Action Game Roleplaying Game BASIC OPERATION For audio music sources Program Hall in Munich Descriptions This sound field simulates a concert hall with approximately 2500 seats in Munich, using stylish wood for the interior finishing as normal standards for European concert halls. Fine, beautiful reverberations spread richly, creating a calming atmosphere. The listener's virtual seat is at the center left of the arena. This is an approximately 1700-seated, middle-sized concert hall with a shoebox shape that is traditional in Vienna. Pillars and ornate carvings create extremely complex reflections from all around the audience, producing a very full, rich sound. This program creates a relatively wide space with a high ceiling like an audience hall in a palace. It offers pleasant reverberations that are suitable for courtly music and chamber music. ADVANCED OPERATION Hall in Vienna Chamber ADDITIONAL INFORMATION Cellar Club This program simulates a live house with a low ceiling and homey atmosphere. A realistic, live sound field features powerful sound as if the listener is in a row in front of a small stage.

This is the sound field of a rock music live house in Los Angeles, with approximately 460 seats. The listener's virtual seat is at the center left of the hall. This is the sound field at stage front in The Bottom Line, that was a famous New York jazz club once. The floor can seat 300 people to the left and right in a sound field offering real and vibrant sound. This sound field offers an image of a concert hall for live performance of pop, rock and jazz music.

The listener can indulge oneself in a hot live space thanks to the presence sound field that emphasizes the vividness of vocals and solo play and the beat of rhythm instruments, and to the surround sound field that reproduces the space of a big live hall.



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