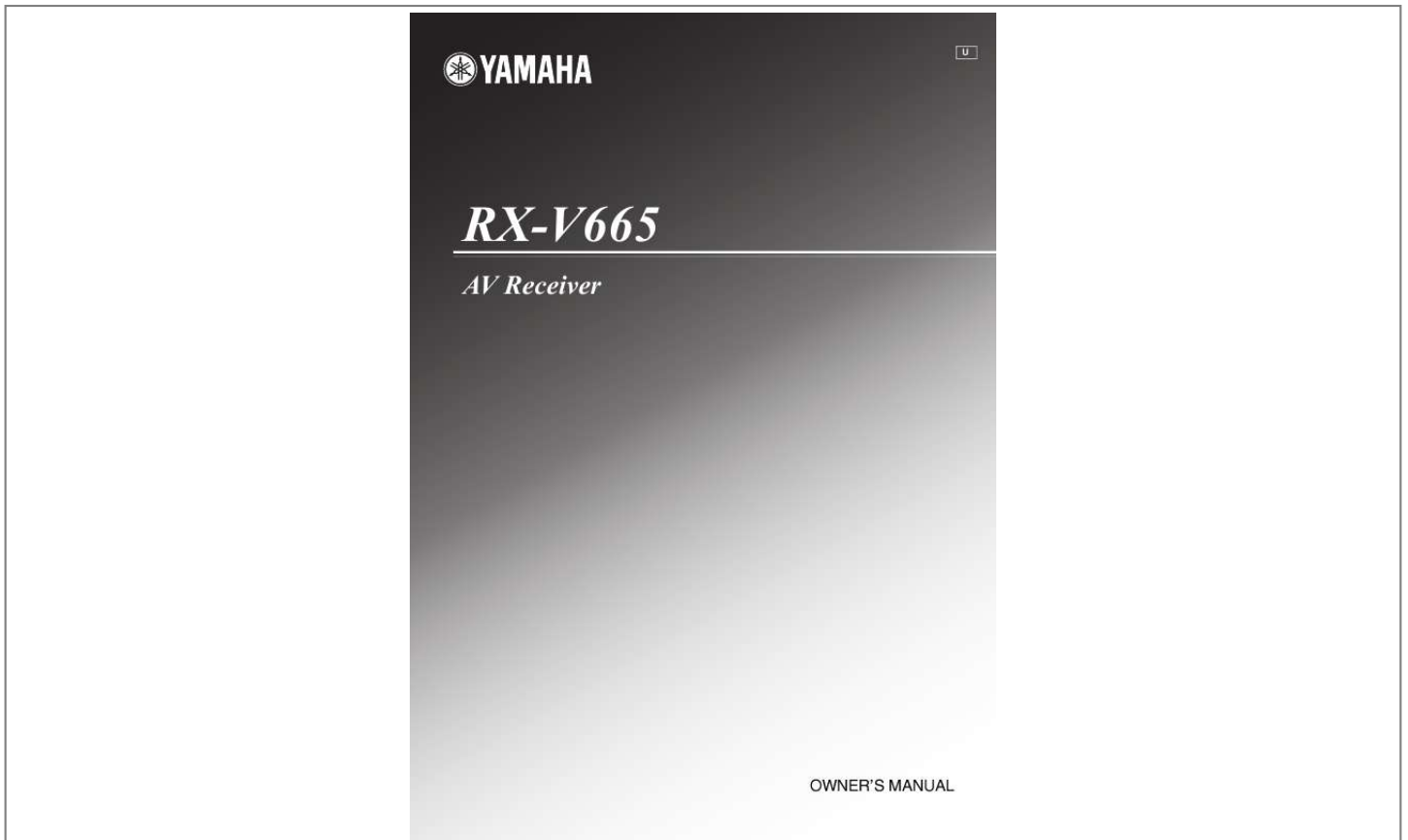




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA RX-V665. You'll find the answers to all your questions on the YAMAHA RX-V665 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-V665
User guide YAMAHA RX-V665
Operating instructions YAMAHA RX-V665
Instructions for use YAMAHA RX-V665
Instruction manual YAMAHA RX-V665



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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 A MAIN ZONE ON/OFF to set this unit to the standby mode, and disconnect the AC power plug from the wall outlet in the main room and Zone2. 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)

.....

.....

... 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 MAIN ZONE ON/ OFF.



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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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. 34 (at the end of . "AMAIN ZONE ON/OFF" or "hHDMI I" (example) indicates the name of the parts on the front panel or the remote control. Refer to the attached sheet or the pages at the end of this manual for the information about each position of the parts. · indicates the page describing the related information. INTRODUCTION Bluetooth™ Bluetooth is a registered trademark of Bluetooth SIG and is used by Yamaha in accordance with a license agreement. Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories "HDMI," the "HDMI" logo and "High-Definition Multimedia Interface" are trademarks, or registered trademarks of HDMI Licensing LLC. Manufactured under license under U.S.

Patent No's: 5,451,942;5,956,674;5,974,380;5,978,762;6,226,616;6,487,535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTSHD Master Audio are trademark of DTS, Inc. © 1996-2007 DTS, Inc. All Rights Reserved.

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, registered in the U.S. and other countries. SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved. Service not available in Alaska and Hawaii. Supplied accessories Check that you received all of the following parts. · Remote control · Batteries (2) (AAA, R03, UM-4) · Optimizer microphone · AM loop antenna · Indoor FM antenna ADDITIONAL INFORMATION APPENDIX English 3 En Part names and functions Front panel V U D E F G H I Q VOLUME HDMI THROUGH ZONE2 ON/OFF ZONE2 CONTROL INFO MEMORY I PRESET h l FM CATEGORY AM h l TUNING/CH h SCENE BD/DVD TV CD RADIO MAIN ZONE PHONES TONE CONTROL PROGRAM STRAIGHT PURE DIRECT

INPUT OPTIMIZER MIC VIDEO AUX ON/OFF I SILENT CINEMA h EFFECT l h VIDEO AUDIO PORTABLE A A B C D B C K L M N N O P J R S T MAIN ZONE ON/OFF Switches this unit between on and off (see page 18). PURE DIRECT Changes mode to Pure Direct mode (see page 23). This key lights up when Pure Direct mode is on. PHONES jack For plugging headphones (see page 23). O P INPUT l / h Selects an input source (see page 22). ZONE2 ON/OFF Switches the zone function on and off (see page 58). OPTIMIZER MIC jack For connecting the supplied optimizer microphone and adjusting output characteristics of speakers (see page 19).

ZONE2 CONTROL Enables operation of a receiver set in Zone2, including input source switching, volume control and tuner operation, with the main amplifier or remote control after this key is pressed. Q R VOLUME control Controls the volume of this unit (see page 22). E INFO Changes information display screens on the front panel display (see page 24). VIDEO (VIDEO AUX) jack For connecting the video output cable of a camcorder or game console (see page 17). F MEMORY Registers FM/AM stations as preset stations (see page 30) or XM/SIRIUS channels as preset channels (see page 33). S AUDIO L/R (VIDEO AUX) jack For connecting the audio output cable of a camcorder or game console (see page 17). G PRESET l / h Selects an FM/AM preset station (see page 30) or an XM/ SIRIUS preset channel (see page 33). T PORTABLE (VIDEO AUX) jack For connecting the audio output cable of a portable music player (see page 17). H FM/AM (CATEGORY l / h) Change the tuner bands between FM and AM. Select a channel category for a XM/SIRIUS. U V Front panel display Displays information on this unit (see page 6). HDMI THROUGH Lights up during pass-through output of an HDMI signal input to this unit while this unit is on standby (see page 54).



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I J TUNING/CH 1 / h Changes FM/AM frequencies or XM/SIRIUS tuner channels. **SCENE** Switches between linked sets of input sources and sound field programs (see page 22). **K TONE CONTROL** Adjusts high-frequency/low-frequency output of speakers (see page 22).

L M PROGRAM 1 / h Changes sound field programs (see page 25). **STRAIGHT** Changes a sound field program to straight decoding mode (see page 28). **4 En Part names and functions Rear panel a b c e d g h f q** **INTRODUCTION SPEAKERS EXTRA SP ZONE2/PRESENCE (BD/DVD) SIRIUS DOCK COMPONENT VIDEO XM HDMI OUT HDMI 1 HDMI 2 HDMI 3 HDMI 4 ANTENNA COMPONENT VIDEO UNBAL. REMOTE PR PR IN PREPARATION PB VIDEO FM GND AM OUT PB VIDEO Y Y MONITOR OUT 12V 0.1A MAX.**

FRONT TRIGGER OUT CENTER CENTER SURROUND SURROUND BACK/ BI-AMP CENTER OPTICAL (TV) COAXIAL COAXIAL (CD) OPTICAL AV 1 AV 2 AV 3 AV 4 AV 5 AV 6 AV OUT FRONT AUDIO1 AUDIO2 SURROUND SUR.BACK SUBWOOFER MULTI CH INPUT AUDIO OUT ZONE2 OUT FRONT SURROUND SUR. BACK 1 SUBWOOFER 2 PRE OUT BASIC OPERATION i a SIRIUS terminal **j k l m n o l p** **MONITOR OUT** Outputs visual signals from this unit to a video monitor, such as a TV (see page 14). For connecting a SiriusConnect tuner (separately sold) (see page 35). **b DOCK terminal** For connecting an optional Yamaha iPod universal dock (YDS11) or Bluetooth wireless audio receiver (YBA-10) (see page 17). **m MULTI CH INPUT terminals** For connecting a player that supports a multi-channel output (see page 16). **ADVANCED OPERATION n** **AUDIO OUT** Outputs audio signals from a selected analog input source to an external component (see page 16). **c XM terminal** For connecting XM Mini-Tuner in XM Mini-Tuner Home Dock (separately sold) (see page 31). **o ZONE2 OUT jacks** Outputs sound of this unit to an external amplifier set in a different zone. **d HDMI OUT/HDMI 1-4** For connecting an HDMI-compatible video monitor or external components for HDMI inputs 1-4 (see page 15).

p PRE OUT ADDITIONAL INFORMATION e f **ANTENNA jack** For connecting supplied FM and AM antennas (see page 18). Outputs multi-channel signals from up to 7.1 channels to an external amplifier (see page 16). **SPEAKERS terminal** For connecting front right and left, center, surround and surround back speakers (see page 11). Connect the presence speakers (see page 11) or the speakers for Zone2 (see page 57) to **EXTRA SP** terminals. **q Power Cable** Connect this cable to an AC wall outlet (see page 18). **g REMOTE IN/OUT terminals** For connecting an external component that supports the remote control function (see page 17). **h TRIGGER OUT terminal** For connecting an external terminal with a trigger input terminal to operate it linked with operation of this unit. For example, when an electric screen that supports a trigger input is connected, it opens and closes linked with operation of an input source selected in this unit. **APPENDIX i AV 1-6** For connecting external components for audio/visual inputs 1-6 (see page 15).

j AV OUT Outputs audio/visual signals from a selected analog input source to an external component (see page 16). **English k AUDIO 1/2** For connecting external components for audio inputs 1-2 (see page 16). **5 En Part names and functions Front panel display cb a** SIRIUS XM **d e f h g** **SLEEP ZONE 2 j VOL. MUTE i 3 TUNED STEREO SW PL PR C L R SL SR SBL SB SBR k a** SIRIUS indicator Lights up when a SiriusConnect tuner is selected as an input source. **l k m b c XM indicator** Lights up when an XM tuner is selected as an input source.

HDMI indicator Lights up during normal communication when HDMI is selected as an input source. **d CINEMA DSP indicator** Lights up when a sound field program that uses CINEMA DSP is selected. **e f CINEMA DSP 3D indicator** Lights up when CINEMA DSP 3D is activated. **Tuner indicator** Lights up during receiving radio broadcast signals from an FM/ AM station (see page 29). **g h i j k SLEEP indicator** Lights up when the sleep timer is activated (see page 24). **ZONE2 indicator** Lights up when the zone functions is turned on. **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. **l m Multi information display** Displays menu items and settings for the current operation. **Speaker indicators** Indicate speaker terminals from which signals are currently output. **Subwoofer Presence L Front L Surround L Surround back L SW PL PR C L R SL SR SBL SB SBR Center Presence R Front R Surround R Surround back R Surround back 6 En Part names and functions Remote control a MAIN ZONE2 c TRANSMIT CODE SET h** **Input selection keys HDMI 1-4 AV 1-6 AUDIO 1/2 V-AUX [A]/[B] DOCK TUNER SIRIUS XM MULTI** 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 external control keys separately from operations of this unit (see page 59). Selects a Yamaha iPod universal dock/Bluetooth wireless audio receiver connected to the DOCK jack. Selects the FM/AM tuner. Selects a SiriusConnect tuner as an input source. Selects an XM tuner as an input source. Selects a signal input from the MULTI CH INPUT jack on the rear panel as an input source. Switches a band between FM and AM. Select a channel category for a XM/ SIRIUS. Presets radio stations. Selects a preset station.

Changes FM/AM frequencies or XM/SIRIUS tuner channels. **INTRODUCTION b e POWER SOURCE d POWER SLEEP HDMI f 3 4 3 4 g 1 2 AV 1 2 h AUDIO 5 6 1 2 PREPARATION V-AUX [A] [B] DOCK TUNER SIRIUS XM MULTI i j k l m o** **CATEGORY FM AM PRESET INFO MEMORY ENHANCER SUR. DECODE MOVIE MUSIC STEREO STRAIGHT PURE DIRECT TUN./CH i** **Tuner keys FM AM (CATEGORY 1 / h) MEMORY PRESET k / n TUN./CH k / n BASIC OPERATION SCENE BD DVD SETUP TV CD OPTION RADIO n j** **VOLUME INFO** Changes the information shown on the front panel display (see page 24).

ENTER RETURN DISPLAY p q k l **ADVANCED OPERATION** Sound selection keys Selects sound field programs (see page 25). **TOP MENU MENU MUTE r** **SCENE** Switches between linked sets of input sources and sound field programs (see page 22). **s REC m 1 2 3 4 SETUP** Displays the setup menu (see page 51). **t 5 6 7 8 n o** **OPTION** Displays the option menu (see page 43). **ADDITIONAL INFORMATION 9 0 TV 10 ENT** **Cursors k / n / l / h** **ENTER/RETURN** **Cursors k / n / l / h** Select menu items displayed on the ENTER RETURN front panel display or on a video monitor, or change settings.



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Confirms a selected item. Returns to the previous screen or ends the menu display. INPUT POWER TV VOL TV CH u MUTE p a b Remote control signal transmitter Transmits infrared signals. VOLUME +/- Adjust the volume of this unit (see page 22). q DISPLAY Displays or not display the OSD on the video monitor When an iPod is connected: Changes the operation mode of the iPod connected to the Yamaha iPod universal dock (see page 40). APPENDIX MAIN/ZONE2 Switches amplifiers (Main or Zone2) to be operated by the remote control (see page 58). c d TRANSMIT Lights up when a signal is output from the remote control. r MUTE Turns the mute function of the sound output on and off (see page 23). CODE SET Sets remote control codes for external component operations (see page 59). s External component operation keys Operate recording, playback etc.

of external components (see page 59). e f g SOURCE POWER Switches an external component on and off. English SLEEP Switches the sleep timer operations (see page 24). t u Numeric keys Enter numbers. POWER Switches this unit on and standby. TV control keys Enables operations of a monitor such as a TV and a projector. 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 19).

P. 10 P. 11 Step 3: Connect your components Connect your TV, DVD player, or other components. · Connecting a TV monitor or projector P. 14 · Connecting other components P.

15 · Connecting a multi-format player or an external decoder P. 16 · Connecting an external amplifier P. 16 · Connecting a Yamaha iPod universal dock or Bluetooth wireless audio receiver P. 17 · Connecting the FM and AM antennas P. 18 · Connecting an XM Mini-Tuner Home Dock P. 31 · Connecting a SiriusConnect tuner P. 35 Center speaker Components (such as DVD player) Surround right speaker Surround left speaker 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 Step 4: Turn on the power Connect the power cable and turn on this unit. · Connecting the power cable · Turning this unit on and off P. 18 P.

18 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 a scene from those just by pressing a remote control key. See page 22 for details. y · Prepare two magnetically shielded 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. P. 22 P. 25 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. 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 59 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.



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5. 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 Presence left and right speakers (PL and PR) The presence speakers supplement the sound from the front speakers with extra ambient effects produced by the sound field programs (see page 25). We recommend that you use the presence speakers especially for the CINEMA DSP sound field programs. To use the presence speakers, connect the speakers to EXTRA SP terminals and then set "Extra SP Assign" to "Presence" (see page 51). 0.5 to 1 m (1 to 3 ft) 0.

5 to 1 m (1 to 3 ft) PL PR INTRODUCTION FL 1.8 m (6 ft) FR 1.8 m (6 ft) C Connecting speakers PREPARATION When you connect speakers, connect them to the respective terminals as follows, according to your speaker layout. y · Connect optional presence speakers or Zone2 speakers (see page 57) to the EXTRA SP jacks. · You can connect up to two subwoofers. When two subwoofers are connected, the same sound is output from them. b a c k j 6.1-channel (When using the Multi-zone function) Speakers Jacks on this unit FRONT (L) FRONT (R) CENTER SURROUND (L) SURROUND (R) BASIC OPERATION SPEAKERS EXTRA SP ZONE2/PRESENCE a Front speaker L b Front speaker R DMI 3 HDMI 4 c Center speaker d Surround speaker L e Surround speaker R f Surround back speaker ADVANCED OPERATION SURROUND BACK/BI-AMP (L) SUB WOOFER 1 SUB WOOFER 2 EXTRA SP (L) EXTRA SP (R) X. FRONT CENTER CENTER SURROUND SURROUND BACK/ BI-AMP CENTER h Subwoofer 1 i Subwoofer 2 (optional) j Zone2 speaker L (optional) R.BACK SUBWOOFER NPUT AUDIO OUT ZONE2 OUT FRONT SURROUND SUR.

BACK 1 SUBWOOFER 2 k Zone2 speaker R (optional) ADDITIONAL INFORMATION PRE OUT e d g f h i 5.1-channel (When using the Multi-zone function) Speakers Jacks on this unit FRONT (L) FRONT (R) CENTER SURROUND (L) SURROUND (R) SUB WOOFER 1 SUB WOOFER 2 EXTRA SP (L) EXTRA SP (R) 9.1-channel (When using presence speakers) Speakers Jacks on this unit FRONT (L) FRONT (R) CENTER SURROUND (L) SURROUND (R) SURROUND BACK/BI-AMP (L) SURROUND BACK/BI-AMP (R) SUB WOOFER 1 SUB WOOFER 2 EXTRA SP (L) EXTRA SP (R) a Front speaker L b Front speaker R c Center speaker d Surround speaker L e Surround speaker R h Subwoofer 1 i Subwoofer 2 (optional) j Zone2 speaker L (optional) k Zone2 speaker R (optional) a Front speaker L b Front speaker R c Center speaker d Surround speaker L e Surround speaker R f Surround back speaker L g Surround back speaker R h Subwoofer 1 i Subwoofer 2 (optional) j Presence speaker L (optional) k Presence speaker R (optional) APPENDIX 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 60). Connecting to the FRONT, CENTER, SURROUND and SURROUND BACK/BI-AMP 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) Connecting to the EXTRA SP terminals Press down the tab and insert the bare end of the speaker cable into the hole in the terminal. 1 1 Red: positive (+) Black: negative (-) y · You can connect the presence speakers (see page 11) or the speakers in the second zone (Zone2) (see page 57) to EXTRA SP terminals. 2 2 Loosen the knob, insert the twisted bare wires into the hole, and then tighten the knob. 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 60), 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 (-) This unit FRONT SURROUND BACK/ BI-AMP Caution Before making bi-amplification connections, remove any or cables that connect a woofer with a tweeter.



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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** **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 74). · You can check error information on HDMI connections (see page 74). (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) **COMPONENT VIDEO** **COMPONENT VIDEO** **ADDITIONAL INFORMATION** **PR PB Y PR PB Y** **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. **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 a just a single key operation using the **SCENE** function (see page 22). **Y PB PR V HDMI TV, or projector** **Digital output (optical) (BD/DVD)** **HDMI OUT** **HDMI 1** **HDMI 2** **HDM ANTENNA** **COMPONENT VIDEO UNBAL. REMOTE PR IN FM GND AM OUT PB UNBAL. VIDEO PR 12V 0.1A MAX. PR Y MONITOR OUT TRIGGER OUT PB VIDEO FM GND AM PB Y Y M** To connect an HDMI video monitor **Jacks on components** **Jacks on this unit** **O OPTICAL** **COAXIAL** **COAXIAL (CD)** **OPTICAL a** **HDMI input** **HDMI OUT (TV) AV 1 AV 2 AV 3 AV 4 AV 5 AV 6 AV OUT AUDIO I AUD** 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. **Audio / video input (AV 1-6)** **Audio / video output (AV OUT)** **INTRODUCTION** **HDMI input (HDMI 1-4) (BD/DVD)** **SIRIUS DOCK** **COMPONENT VIDEO XM** **HDMI OUT** **HDMI 1** **HDMI 2** **HDMI 3** **HDMI 4** **ANTENNA** **COMPONENT VIDEO UNBAL. REMOTE PREPARATION** **PR PR IN PB VIDEO FM GND AM OUT PB VIDEO Y Y MONITOR OUT 12V 0.**

1A MAX. FRONT TRIGGER OUT CENTER **Audio output (AUDIO OUT)** **OPTICAL (TV)** **BASIC OPERATION** **COAXIAL** **COAXIAL (CD)** **OPTICAL** **AV 1** **AV 2** **AV 3** **AV 4** **AV 5** **AV 6** **AV OUT** **FRONT AUDIO1** **AUDIO2** **SURROUND SUR.BACK** **SUBWOOFER** **MULTI CH INPUT** **AUDIO OUT** **ZO O** **Audio input (AUDIO 1-2)** **Multi channel audio input (MULTI CH)** **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** **HDMI 3** **ADVANCED OPERATION** **External component with HDMI output** **ADDITIONAL INFORMATION** **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** **AV 4** **OPTICAL** **APPENDIX** **VIDEO** **AV 5** **AUDIO** **VIDEO** **AV 6** **AUDIO** **VIDEO** y · Input sources in parentheses are recommended to connect to the respective jacks. 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 22). · 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 55).

· See page 57 on how to use **ZONE2 OUT** terminals. **English 15 En Connections** **Audio player** **Output jacks on the connected external component** **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** **Input sources/jacks of this unit** **OPTICAL** **OPTICAL** **COAXIAL** **COAXIAL** **AUDIO** **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.



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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 multi-format player or an external decoder This unit is equipped with 8 additional input jacks (Front L/R, Center, Surround L/R, Surround Back L/R and SUBWOOFER) for discrete multi-channel input from a multi-format player, external decoder, etc. If you set input source to "MULTI CH," the analog audio input jacks assigned as "Front Input" can be used as the front channel input jacks. Notes · When you select "MULTI CH" as the input source, the digital sound field processor is automatically disabled. · Since this unit does not redirect signals input at the MULTI CH INPUT jacks to accommodate for missing speakers, connect at least a 5.

1 channel speaker system when using this feature. · When the input source is switched to "MULTI CH," images input from a component connected to "AVI-6" or "V-AUX" (see page 45). If your DVD player does not support multi-channel digital output, connect it to these input jacks. CENTER Connecting an external amplifier This unit has more than enough power for any home use. However, if you want to add more power to the speaker output or if you want to use another amplifier, connect an external amplifier to the PRE OUT jacks. Each PRE OUT jack outputs the same channel signals as the corresponding SPEAKERS terminals. Note · When you make connections to the PRE OUT jacks, do not make any connections to the SPEAKERS terminals. a b c d CENTER FRONT SURROUND SUR. BACK 1 SUBWOOFER 2 PRE OUT e a b c Subwoofer out Center out FRONT PRE OUT jacks Front channel output jacks.

FRONT SURROUND SUR.

BACK SUBWOOFER SURROUND PRE OUT jacks Surround channel output jacks. MULTI CH INPUT L R L R L R SUR. BACK PRE OUT jacks Surround back output jacks. When you only connect one external amplifier for the surround back channel, connect it to the single SUR. BACK jack.

Multi-format player/External decoder (7.1-channel output) Front out Surround out Surround back out y · To output surround back channel signals at these jacks, set "Sur. Back" to any parameter except "None" (see page 52). d e CENTER PRE OUT jack Center channel output jack. SUBWOOFER PRE OUT 1/2 jack Connect a subwoofer with a built-in amplifier.

16 En Connections Using REMOTE IN/OUT jacks When the components are the Yamaha products and have the capability of the transmission of the remote control signals, connect the REMOTE IN and REMOTE OUT jacks to the remote control input and output jack with the monaural analog mini cable as follows. Using the VIDEO AUX jacks on the front panel INTRODUCTION 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 BD/DVD) HDMI 1 HDMI 2 HDMI 3 HDMI 4 COMPONENT VIDEO REMOTE EMORY PREPARATION I PRESET h I FM CATEGORY AM h I TUNING/CH h PR IN SCENE OUT PB VIDEO BD/DVD TV CD RADIO Y 12V OGRAM STRAIGHT PURE DIRECT INPUT OPTIMIZER MIC VIDEO AUX h EFFECT I h VIDEO AUDIO PORTABLE Remote control out Remote control in VIDEO L AUDIO R PORTABLE BASIC OPERATION Video output Analog audio output Analog audio output Infrared signal receiver or Yamaha component Yamaha component (CD or DVD player, etc.) V L R 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. ADVANCED OPERATION 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. ADDITIONAL INFORMATION SIRIUS DOCK COMPONENT VIDEO XM HDMI OUT ANTENNA UNBAL. PR PB VIDEO FM GND A APPENDIX Y Yamaha iPod universal dock/Bluetooth wireless audio receiver English 17 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. 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). AM loop antenna Connecting the power cable After all connections are complete, plug the AC power cable of this unit into an AC wall outlet. To the AC wall outlet Power cable (BD/DVD) US DOCK COMPONENT VIDEO XM HDMI OUT HDMI 1 HDMI 2 HDMI 3 H ANTENNA COMPONENT VIDEO UNBAL. REMOTE PR PR IN PB VIDEO FM GND AM OUT PB VIDEO Y Y MONITOR OUT 12V 0.1A MAX. FRO TRIGGER OUT CENTER 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. Turning this unit on and off 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. 1 Press AMAIN ZONE ON/OFF on the front panel (or gPOWER on the remote control) to turn on this unit. Press AMAIN ZONE ON/OFF (or gPOWER) again to turn off this unit (standby mode).

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 JSCENE (or IScene). · This unit consumes a small amount of electricity even in the standby mode. We recommend disconnecting the power cable from the AC wall outlet.

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.



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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. Press and hold Insert Release 18 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 51 for the "Manual Setup" procedure. INTRODUCTION "MIC ON. View OSD MENU" appears on the front panel display. The following menu screen appears on the video monitor. 1 Auto Setup Extra SP Assign >Zone2 Presence None EQ Type;;;Natural . Start PREPARATION [[]/[]:Up/Down [ENTER]:Start [y · You can bring up the above menu screen from the setup menu (see page 51). 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. Optimizer microphone BASIC OPERATION ADVANCED OPERATION 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. ADDITIONAL INFORMATION 4 MIN MAX MIN MAX Subwoofer 2 Connect the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel. UT OPTIMIZER MIC When the speakers are connected to EXTRA SP terminals, press oCursor k repeatedly to select "Extra SP Assign," and then press oCursor l / h to select how to use EXTRA SP terminals from "Zone2," "Presence" or "None." If this unit does not work when you press oCursor, press mSETUP once and then operate this unit. APPENDIX VIDEO AUX h VIDEO AUDIO PORTABLE English Optimizer microphone 19 En Optimizing the speaker setting for your listening room (YPAO) 5 To select a sound character for adjustment, press oCursor n to select "EQ Type" and then press oCursor l / h. If this unit does not work when you press oCursor, press mSETUP 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." 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. DIST Displays the speaker distance from the listening position in the following order: Closest speaker distance/Farthest speaker distance 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 21). · If problems occur during measurement, "WARNING (XX)" (xx indicates the number of warning) appears above "RESULT" (see page 21). 7 Press oENTER to confirm the settings. The speaker characteristics are adjusted according to measurement results. To cancel the operation, press oCursor l / h to select "Cancel" and press oENTER. When the following screen appears, remove the optimizer microphone. "Auto Setup" is now complete.

1 Auto Setup AUTO SETUP Complete Disconnect Microphone 6 Press oCursor n to select "Start" and then press oENTER 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 oCursor k to cancel the automatic setup procedure.

PRESS [ENTER] [SETUP]:Exit 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 oENTER before removing the optimizer microphone, "1 Auto Setup" of "Speaker Setup" in the setup menu (see page 51) is displayed. 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 3/4/0.1 8.0/ 8.5ft -3.5/ +4.

5dB Cancel [p]/[[:Select [ENTER]:Finish 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 20 En Optimizing the speaker setting for your listening room (YPAO) When an error message is displayed during measurement Select "Retry" or "Exit" using oCursor l / h and then press oENTER.



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ERROR . E-9:USER CANCEL Don't operate any function >Retry Exit When a warning message is displayed after measurement **INTRODUCTION** 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 --[p]/[]:**Select [ENTER]:Return **PREPARATION [p]/[]:**Select [ENTER]:Return Retry Performs "Auto Setup" again. Exit Terminates the measurement and "Auto Setup." y · See page 69 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 70 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 oENTER. Details of the warning message are displayed.

If there are multiple warning messages, you can display the next message using oCursor h. To return to the top result display, press oENTER again. **BASIC OPERATION 2 ADVANCED OPERATION ADDITIONAL INFORMATION APPENDIX English 21 En BASIC OPERATION Playback Basic procedure 1 2**

Turn on external components (TV, DVD player, etc.) connected to this unit. Press OINPUT l / h (or hInput 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 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 55). y · When this unit is on standby, you can turn on this unit by pressing the SCENE key. · When connecting a Yamaha DVD/CD player that has the REMOTE OUT jack of this unit, you can play back a DVD/CD on the player by selecting BD/DVD or CD SCENE function. 3 Play the external component that you have selected as the source input, or select a radio station on the tuner. 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 29) · Bluetooth component playback (see page 42) · iPod playback (see page 40) Turn the QVOLUME control to adjust the volume (or press pVOLUME +/-). Volume VOL. SW C Selecting a SCENE Press JSCENE (or LSCENE). Registering input source/sound field program Select the desired input source/sound field program, and press down JSCENE (or LSCENE) 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). 4 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. 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 44). 1 Register the remote control code of an external component to the desired input source (see page 59). Note · Remote control codes cannot be registered to TUNER, SIRIUS, or XM input sources. 22 En Playback 2 Press hInput 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 LSCENE key whose assignment you want to change.

The external component can now be controlled remotely just by selecting a scene. From now on the external component can be remotely controllable just by selecting a scene. Enjoying pure hi-fi sound Use Pure Direct mode to enjoy the pure high fidelity sound of the selected source. When Pure Direct mode is activated, this unit plays back the selected source with the least circuitry. Press NPURE DIRECT (or kPURE DIRECT) to turn the Pure Direct mode on or off. NPURE DIRECT lights up when you set Pure Direct mode on. The front panel display turns off while the Pure Direct mode is on. It turns on temporarily when you control this unit (such as volume control). The front panel display turns on again once you set the Pure Direct mode to off. The following features are disabled in Pure Direct mode.

sound field program, tone control display and operation of the option menu and setup menu multizone function **INTRODUCTION PREPARATION** Muting audio output temporarily (MUTE) 1 Press rMUTE on the remote control to mute the audio output. The MUTE indicator on the front panel display flashes while audio output is muted. Press rMUTE again to resume audio output. **BASIC OPERATION 2** 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. When the input source is set to "MULTI CH," only front L/R sound is output from the headphones. 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.



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