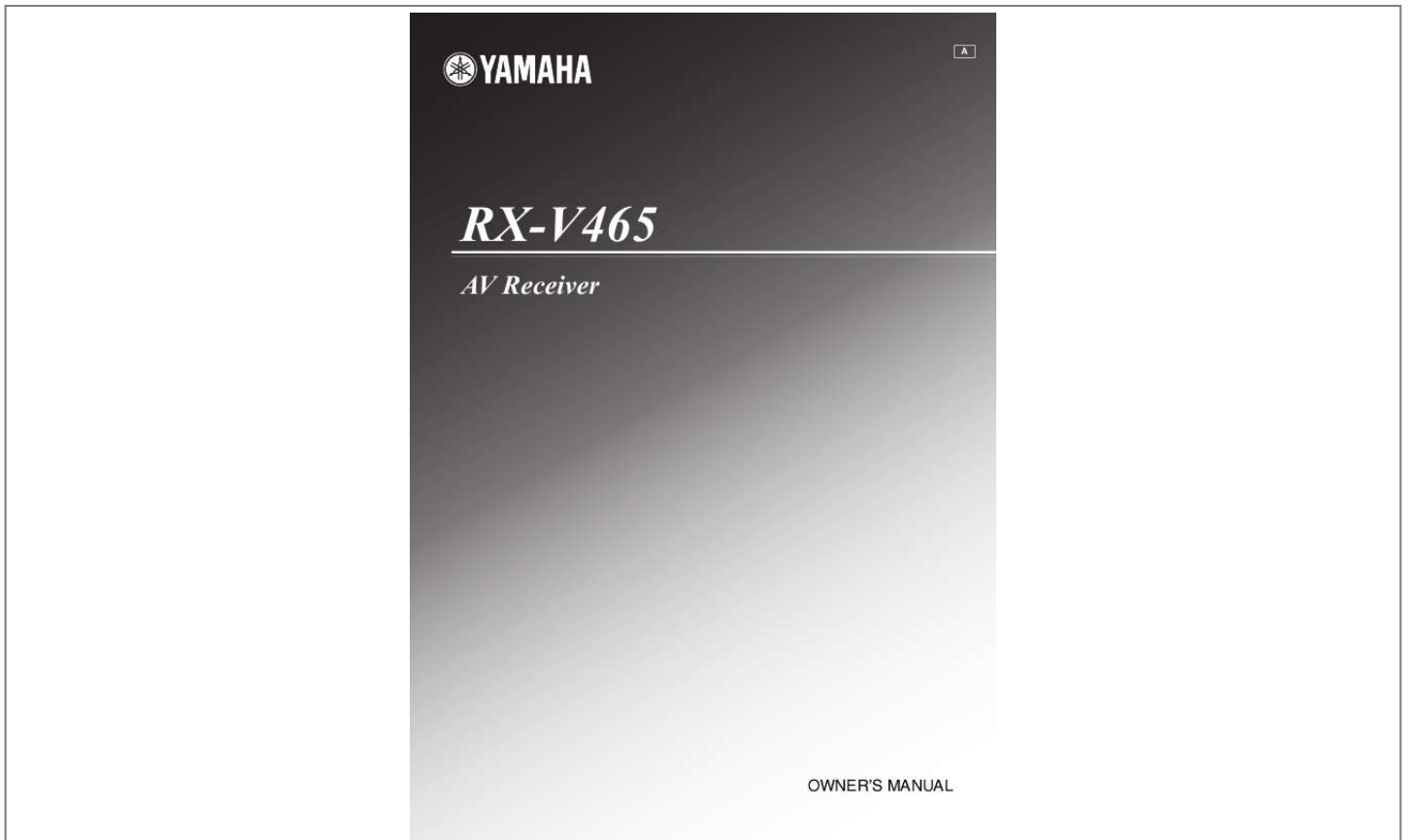




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA RX-V465. You'll find the answers to all your questions on the YAMAHA RX-V465 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-V465
User guide YAMAHA RX-V465
Operating instructions YAMAHA RX-V465
Instructions for use YAMAHA RX-V465
Instruction manual YAMAHA RX-V465



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Manual abstract:

@@@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. @@@6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. @@@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 ASTANDBY/ON. In this state, this unit is designed to consume a very small quantity of power. Caution-i En Contents INTRODUCTION Features.

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. 30 1 En INTRODUCTION Features Built-in 5-channel power amplifier · Minimum RMS output power (1 kHz, 0.9% THD, 6) · FRONT L/R: 105 W + 105 W · CENTER: 105 W · SURROUND L/R: 105 W + 105 W Speaker/Preout outputs · Speaker jacks (5-channel), preout output jacks (surround back L/R, subwoofer) Input/Output terminals HDMITM (High-Definition Multimedia Interface) · 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 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.



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Other features · 192-kHz/24-bit D/A converter · Direct mode for pure hi-fi sound for all sources · Adaptive dynamic range controlling capability · Scene function that allows you to change input sources and sound field programs with one key. · Sleep timer Input terminals · HDMI input x 4 · Audio/Visual input [Audio] Digital input (coaxial) x 2, digital input (optical) x 2, analog input x 2 [Video] Component video x 2, composite video x 4 · Audio input (analog) x 2 · Dock input x 1 · V-AUX input [Audio] Analog x 1, stereo mini jack x 1 [Video] Composite video x 1 Output terminals · Monitor output [Audio/Video] HDMI x 1 [Video] Component video x 1, Cers FM/AM stations as preset stations (see page 29). P Q VOLUME control Controls the volume of this unit (see page 21). PRESET I / 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 I / h Chnputs 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 terminal. 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 pages 22 and 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 change settings. Confirms a selected item. Returns to the previous screen or ends the menu screen. 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 a scene 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 · For surround back speakers, prepare speakers with a another amplifier connected. · 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.



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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 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. When using the surround back speakers, connect an external amplifier to the SURROUND BACK jacks of the PRE OUT terminals. 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 low frequency 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 Connecting the surround back speakers b a c DMI 3 HDMI 4 FRONT SPEAKERS CENTER SURROUND Connecting an external amplifier to the SURROUND BACK L/R jacks of the PRE OUT terminals allows you to create the maximum of 7.

1-channel surround system with a surround back channel. For a 6.1-channel system, connect the external amplifier to the SURROUND BACK L jack of the PRE OUT terminals. For a 7.1-channel system, connect it to the SURROUND BACK L/R jacks. Surround Back L/R speakers PREPARATION BASIC OPERATION External Amplifier AUDIO OUT SURROUND BACK SUBWOOFER PRE OUT ADVANCED OPERATION e 5.1-channel Speakers a Front speaker L b Front speaker R c Center speaker d Surround speaker L e Surround speaker R f Subwoofer d f SURROUND BACK L (white) SURROUND BACK R (red) SURROUND BACK SUBWOOFER PRE OUT Jacks on this unit FRONT (L) ADDITIONAL INFORMATION FRONT (R) CENTER SURROUND (L) SURROUND (R) SUBWOOFER You can adjust the surround back speaker volume with a volume control of the external amplifier. To obtain the balanced sound during playback, set the speaker output characteristics in advance using the Yamaha Parametric Room Acoustic Optimize (YPAO, see page 18) or "Speaker Setup" of the setup menu (see page 39). 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.



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· 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 and SURROUND terminals Press down the tab and insert the bare end of the speaker cable into the hole in the terminal. 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.
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 (-) 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. 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. Input HDMI BASIC OPERATION ADVANCED OPERATION Video jacks Jack and cables Description Output
HDMI COMPONENT VIDEO COMPONENT VIDEO VIDEO jacks VIDEO V (yellow) To transmit conventional composite video signals. Use video pin
cables. PR PB Y PR PB Y VIDEO VIDEO ADDITIONAL INFORMATION 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. 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 UNBAL. PB VIDEO PR Y MONITOR OUT PB VIDEO FM GND AM 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 AV OUT AUDIO1 a HDMI input y · This unit
supports the HDMI control function. By connecting a TV that supports the HDMI control, operations of this unit can be controlled with the remote control of
the TV. For details, see page 44. 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) 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 ADVANCED
OPERATION 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 output 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 APPENDIX VIDEO AV 4 OPTICAL VIDEO AV 5 AUDIO VIDEO AV 6 AUDIO VIDEO English 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 as necessary (see page 43). 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 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 terminal, to which you can connect a Yamaha iPod universal dock (YDS-11, sold separately) or a Bluetooth wireless audio receiver (YBA10, sold separately). You can play an iPod or a Bluetooth component with this unit by connecting it to the DOCK terminal. 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 | PRESET h FM AM | TUNING h SCENE BD/DVD TV CD RADIO OGRAM STRAIGHT DIRECT INPUT OPTIMIZER MIC VIDEO AUX h EFFECT | 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 VOLTAGE SELECTOR (Asia and General models only) Caution The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local voltage BEFORE plugging the power cable into the AC wall outlet. Improper setting of the VOLTAGE SELECTOR may cause damage to this unit and create a potential fire hazard. Select the switch position according to your local voltage using a straight slot screwdriver.

INTRODUCTION 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 DOCK COMPONENT VIDEO HDMI OUT HDMI 1 HDMI 2 HDMI 3 F ANTENNA COMPONENT VIDEO UNBAL. PR PR PB VIDEO FM GND AM PB VIDEO Y Y MONITOR OUT VOLTAGE SELECTOR 230240V Voltage indication 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 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. [General model] Voltages are AC 110/120/220/230-240 V, 50/60 Hz. [Asia model] Voltages are AC 220/230-240 V, 50/60 Hz. ADVANCED OPERATION Assembling the AM loop antenna Connecting the AC power cable After all connections are complete, plug the AC power cable of this unit into an AC wall outlet. ADDITIONAL INFORMATION Turning this unit on and off 1 2 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. y · 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. Press ASTANDBY/ON (or fPOWER) to turn on this unit. Press ASTANDBY/ON (or fPOWER) again to turn off this unit (standby mode). APPENDIX Press and hold Insert Release 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. 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.

Notes · 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.

Optimizer microphone 2 Connect the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel. UT OPTIMIZER MIC VIDEO AUX h VIDEO AUDIO PORTABLE 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.

· If the surround back speakers are connected to this unit via an external amplifier, turn on the external amplifier and adjust the volume to the proper level.



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· 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 "MIC ON. YPAO START" appears on the front panel display. y · You can bring up the "Auto Setup" from the setup menu (see page 39). 3 Place the optimizer microphone at your normal listening position on a flat level surface with the omnidirectional microphone heading upward. Optimizer microphone MIN MAX MIN MAX Subwoofer 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. Note · If the volume of the external amplifier is not set at the proper level while the surround speakers being connected, the surround back speakers may not be recognized by the YPAO or a warning message may appear.

18 En Optimizing the speaker setting for your listening room (YPAO) 4 To select a sound character for adjustment, press nCursor k to select "EQ" and then press nCursor l / h. If this unit does not work when you press nCursor, press lSETUP once and then operate this unit. Notes · When "E-xx" (xx indicates the number) appears during Auto Setup, it means that measurement is canceled due to an error. For details, see "When an error message is displayed during measurement" (page 20). · When an error occurs during measurement, "W-xx" (xx indicates the number) appears. For details, see "When a warning message is displayed after measurement" (page 20). INTRODUCTION EQ;;;:Natural 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," 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" 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.

6 Press nENTER to confirm the settings. The speaker characteristics are adjusted according to measurement results. PREPARATION >Set 7 Cancel To cancel the operation, press nCursor l / h to select "Cancel" and press nENTER. When "Disconnect MIC" appears, remove the optimizer microphone. Auto Setup is complete.

BASIC OPERATION 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 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. ADDITIONAL INFORMATION 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. APPENDIX When measurement is successfully completed, "YPAO Complete" appears on the front panel display. YPAO Complete English 19 En Optimizing the speaker setting for your listening room (YPAO) When an error message is displayed during measurement Press nCursor n once, and select "Retry" or "Exit" using nCursor l / h and then press nENTER. 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. When a warning message is displayed after measurement If a problem occurs during measurement, "W-xx" (xx indicates the number) is displayed on the front panel display. Check the error and solve the problems.

W-1:PHASE 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 If a warning message is displayed, 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 AVI 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 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.



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SW C y · When this unit is on standby, you can turn on this unit by pressing the SCENE key. BASIC OPERATION Selecting a SCENE Press ISCE (or kSCENE). Registering input source/sound field program Select the desired input source/sound field program, and pressing down ISCE (or kSCENE) until "SET Complete" appears on the front panel display. ADVANCED OPERATION 4 ADDITIONAL INFORMATION Switching remotely controlled external components linked to scene selections L SL R SR Volume -18.5dB Note 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.

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. 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 a TUNER input. APPENDIX 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 becomes dim. When setting it back off, the brightness of the front panel display 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. y · The tone control of the speakers or headphones can be set separately. Set the headphone tone control with the headphones connected. 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. 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. Treble 2 0.0dB Adjust the frequency range using KPROGRAM l / 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 You can display information on audio/video signals input to this unit for each input source. 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 front panel display. Press nCursor k / n to select the desired item. 2 PREPARATION Straight Sound field program (DSP program) 3 The following information is displayed for each input source. HDMI1-4: AV1-6: AUDIO1-2: V-AUX: FM/AM: 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 Dolby D Note · If an HDMI related error occurs, press nCursor to display an error message. 4 To end the information display, press mOPTION. 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. 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.



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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. 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. ADVANCED OPERATION Hall in Vienna Chamber ADDITIONAL INFORMATION Cellar Club The Roxy Theatre The Bottom Line Music Video APPENDIX For stereo reproduction Program 2ch Stereo Descriptions Use this program to mix down multi-channel sources to 2 channels. English y · When multi-channel signals are input, they are downmixed to 2 channels and output from the front left and right speakers. 25 En Enjoy the sound field programs For Multi-channel stereo reproduction Program 7ch Stereo Descriptions Use this program to output sound from all speakers.



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When you play back multi-channel sources, this unit downmixes the source to 2 channels, and then outputs the sound from all speakers. This program creates a larger sound field and is ideal for background music at parties, etc. The Compressed Music Enhancer Program Straight Enhancer Descriptions Use this program to enhance the sound nearest to the original depth and width of the 2-channel or multi-channel compression artifacts. Use this program to play back compression artifacts in 7-channel stereo. 7ch Enhancer Surround decode mode Select this program to playback sources with selected decoders. You can playback 2-channel sources on multi-channels. Decoder Pro Logic PLIIx Movie / PLII Movie Descriptions Dolby Pro Logic decoder suitable for all kinds of sources. Dolby Pro Logic IIx (or Dolby Pro Logic II) decoder suitable for movies. If your listening environment is as follows, you cannot select the Dolby Pro Logic IIx decoder. · When the surround back speakers are not connected · When headphones are connected Dolby Pro Logic IIx (or Dolby Pro Logic II) decoder suitable for music.

If your listening environment is as follows, you cannot select the Dolby Pro Logic IIx decoder. · When the surround back speakers are not connected · When headphones are connected Dolby Pro Logic IIx (or Dolby Pro Logic II) decoder suitable for games. If your listening environment is as follows, you cannot select the Dolby Pro Logic IIx decoder. · When the surround back speakers are not connected · When headphones are connected DTS decoder suitable for movies. DTS decoder suitable for music.

PLIIx Music / PLII Music PLIIx Game / PLII Game Neo:6 Cinema Neo:6 Music y · An input source is played back in straight decode mode (see page 27) when multi-channel audio signal is input. 26 En Enjoy the sound field programs Enjoying unprocessed input sources (Straight decoding mode) In straight decoding mode, sounds are reproduced without sound field effect. 2-channel stereo sources are output from only the front left and right speakers. Multi-channel input sources are decoded straight into the appropriate channels and multi-channel sounds are reproduced without a sound field effect. Enjoy sound field programs with headphones (SILENT CINEMATM) INTRODUCTION SILENT CINEMA allows you to enjoy multi-channel sources with your headphones.

SILENT CINEMA mode is automatically selected when you connect the headphone plug to the PHONES jack. Note · SILENT CINEMA mode is not available in the following conditions. 2ch Stereo of the sound field program is selected. direct mode or straight decoding mode is selected. 1 To enable straight decoding mode, press LSTRAIGHT (or jSTRAIGHT). "Straight" appears on the front panel display. To cancel straight decoding mode, press LSTRAIGHT (or jSTRAIGHT) again. A sound field program name appears on the front panel display, and sound is reproduced with that sound field effect. PREPARATION 2 BASIC OPERATION Enjoying sound field programs without surround speakers (Virtual CINEMA DSP) Virtual CINEMA DSP allows you to enjoy DSP sound field surround effects even without any surround speakers by using virtual surround speakers. You can even enjoy Virtual CINEMA DSP using a minimal two-speaker system that does not include a center speaker.

When "Sur. L/R" in the setup menu is set to "None" (see page 40), this unit operates in Virtual CINEMA DSP mode. Note · Virtual CINEMA DSP is not available in the following conditions even if you set "Sur. L/R" to "None" (see page 40). headphone plug is connected to the PHONES jack. 7ch Stereo of the field sound program is selected. direct mode or straight decoding mode is used. ADVANCED OPERATION ADDITIONAL INFORMATION APPENDIX English 27 En FM/AM tuning The FM/AM tuner of this unit provides the following two modes for tuning. Frequency tuning mode (Auto tuning / Manual tuning) You can tune in to a desired FM/AM station by searching or specifying its frequency. Preset tuning mode (Preset tuning) You can preset the frequencies of FM/AM stations by registering them to specific numbers, and later just select those numbers to tune in.

Note Be sure to set the tuner frequency step according to the frequency spacing in your area before you tune into a radio station. See page 45 for the tuner frequency step setting. When you press and release the key The tuner increases or decreases the frequency in steps. Use this method when the tuner cannot receive strong signals and stations are skipped during the search. You can listen to better quality sound even when the tuner cannot receive a strong signal. y · You can switch between stereo and monaural for FM broadcast in the option menu (see page 34). 4 To tune in by direct frequency tuning, enter the frequency of the desired station using the numeric keys on the remote control. Enter only integers. For example, if you want to set the frequency to 88.90 MHz, enter "8890" using sNumeric keys.

Notes · When you press sNumeric keys during preset tuning, a preset number is selected. Set tuning mode to normal tuning mode using HTUNING 1 / h (or hTUNING k / n) prior to the operation. · "Wrong Station!" appears on the front panel display when you enter a frequency that is out of receivable range. Make sure that the entered frequency is correct. · You do not need enter zero if it comes at the end of a decimal number. For example, enter "925" for "92.50 MHz" or "940" for "94.00MHz." Note · Adjust the FM/AM antennas connected to this unit for the best reception. Tuning in to the desired FM/AM station (Frequency tuning) 1 Press NINPUT 1 / h (or gTUNER) repeatedly and switch the input source to "TUNER.

" Press FFM (hFM) or GAM (hAM) to select a band. "FM" or "AM" appears on the front panel display according to the band that you have selected. Press HTUNING 1 / h (or hTUNING k / n) to specify the frequency. To adjust the frequency to a higher range, press h (or k). To adjust it to the lower range, press l (or n). The TUNED indicator on the front panel display lights up when the tuner is tuned in to a station. The STEREO indicator also lights up if the program being broadcasted is in stereo. STEREO TUNED 2 Registering FM/AM stations and tuning in (Preset tuning) You can register up to 40 FM/AM stations (Preset) using "Automatic station preset" or "Manual station preset." 3 Registering stations by automatic station preset The tuner automatically detects FM stations with strong signals and registers up to 40 stations. AM stations cannot be automatically registered.

Use manual station preset. 1 Press NINPUT 1 / h repeatedly (or press gTUNER) to switch the input source to "TUNER." Press mOPTION on the remote control.



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