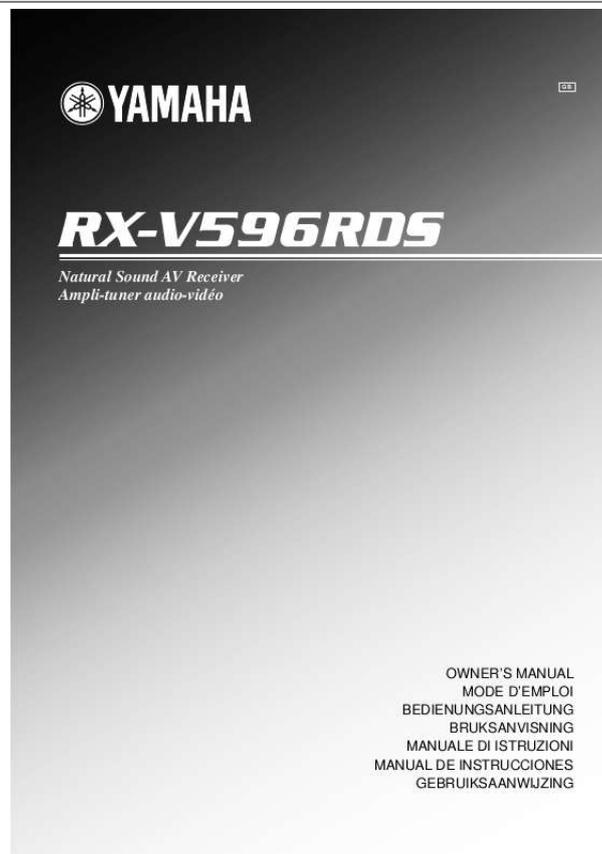




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA RX-V596RDS. You'll find the answers to all your questions on the YAMAHA RX-V596RDS 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-V596RDS**  
**User guide YAMAHA RX-V596RDS**  
**Operating instructions YAMAHA RX-V596RDS**  
**Instructions for use YAMAHA RX-V596RDS**  
**Instruction manual YAMAHA RX-V596RDS**



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ADVANCED OPERATION ADVANCED OPERATION SOUND FIELD PROGRAM .*

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.... 59 APPENDIX Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992 1997 Dolby Laboratories, Inc. All rights reserved. Manufactured under license from Digital Theater Systems, Inc.

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All Rights Reserved. y indicates a tip for your operation. · When buttons on this unit and the remote control are noted together in this Owner's Manual, these button names are in principle noted in the order of "button name (remote control button name)". English 1 GETTING STARTED Checking the Package Contents Check that the following items are included in your package. Remote control Batteries (AAA, R03, UM-4 type) 75-ohm/300-ohm antenna adapter (U.

K. model only) Indoor FM antenna Quick reference card Quick Reference Card AM loop antenna Connection guide Battery Installation in the Remote Control Battery Replacement If the remote control operates only when it is close to the unit, the batteries are weak. Replace all the batteries with new ones. Be sure to replace the batteries within about two minutes. If it takes longer than two minutes, the codes set for the remote control will return to the factory settings. (Refer to pages 45 to 52 about the remote control.) 1 3 2 Notes · Use only AAA, R03 or UM-4 batteries for replacement. · Be sure the battery polarity is correct. (See the illustration inside the battery compartment.) · Remove the batteries if the remote control will not be used for an extended period of time.

· If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries. 1 2 3 Turn the remote control over and slide the battery compartment cover in the direction of the arrow. Insert the batteries (AAA, R03 or UM-4 type) according the polarity markings on the inside of the battery compartment.



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Close the battery compartment cover. 2 GETTING STARTED Using the Remote Control The remote control transmits a directional infrared beam. Be sure to aim the remote control directly at the infrared sensor during operation. When the sensor is covered or there is a large object between the remote control and the sensor, the sensor cannot receive signals. The sensor may not be able to receive signals properly when it is exposed to direct sunlight or a strong artificial light (such as a fluorescent or strobe light).

In this case, change the direction of the light or reposition the unit to avoid direct lighting. INTRODUCTION Remote control sensor Within approximately 6 m (20 feet) Notes . . . . Handle the remote control with care. Do not spill water, tea 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: high humidity or temperature such as near a heater, stove or bath; dusty places; or extremely low temperature.

PREPARATION BASIC OPERATION ADVANCED OPERATION APPENDIX English 3 CONTROLS AND FUNCTIONS Front Panel 1 2 3 4 5 6 + + L R 7 8 9 0 q w e r t y u i o p a s d f 1 STANDBY/ON Press this switch to turn on the power of this unit or to set this unit in the standby mode. Before turning the power on, set VOLUME to the "m" position. Standby mode In this mode, this unit consumes a very small quantity of power to receive infrared-signals from the remote control. 6 VOLUME Turn this control to turn up or down the volume. 7 PHONES jack Connect the headphones to the PHONES jack.

You can listen to the sound to be output from the main speakers through the headphones. When listening with headphones privately, set both SPEAKERS A and B to the OFF position, press EFFECT to turn off the effect speakers (center and rear) and set "BASS OUT" on the SET MENU to the MAIN position (so that no DSP program name appears on the display). 2 Remote control sensor This receives signals from the remote control. 3 Display This shows various information. (Refer to page 6 for details.) 8 SPEAKERS Set A or B (or both A and B) to the ON position for the main speaker system (connected to this unit) that you want to use. Set the button(s) to the OFF position for the main speaker system that you don't want to use. 4 INPUT MODE Press this button to select the input mode among AUTO, DTS and ANALOG for the DVD/LD, TV/digital TV and cable TV/satellite tuner sources. 9 PROGRAM selector Press l or h to select a DSP program when the effect speakers (center and rear) are turned on. The name of the selected program appears on the display.

5 INPUT SELECTOR Turn this selector to select the input source (TUNER, CD, PHONO, CBL/SAT, V-AUX, VCR, D-TV, DVD/LD) that you want to listen to or watch. The arrow for the selected input source indicator lights up on the display. 0 EFFECT Press this button to turn on or off the effect speakers (center and rear). If you turn them off, the signals of the center and rear channels are directed to the right and left main speakers when playing a source encoded with Dolby Digital and DTS. In this case, the output levels of the right and left speakers may not match. 4 CONTROLS AND FUNCTIONS q Tone controls These controls are only effective for the sound from the main speakers. a) BASS Turn this control clockwise to increase or counterclockwise to decrease the low-frequency response. The "0" position produces a flat response. b) TREBLE Turn this control clockwise to increase or counterclockwise to decrease the high-frequency response. The "0" position produces a flat response. c) BALANCE Turn this control clockwise to increase or counterclockwise to decrease the high-frequency response. The "0" position produces a flat response. The current station frequency and band (FM or AM) also appear when the tuner is selected as the input source.

0 AUTO indicator This lights up when the unit is in the automatic tuning mode. q PTY HOLD indicator This lights up while searching for stations in the PTY SEEK mode. 4 Input source indicators One of the arrows for these indicators lights up depending on which source is selected. w EON indicator This lights up when an RDS station that offers the EON data service is being received. e effect speakers (center and rear) in the following cases: . When the selector dial is set to the DSP/TUN position.

. While the indicator is lit for about three seconds after pressing DSP. B 1 2 Set the selector dial to the DSP/TUN position. You can select a DSP program directly with the numeric buttons (1 to 8) and turn on or off the effect speakers (center and rear) by pressing EFFECT. Description of the Numeric Buttons The Numeric buttons function in various ways depending on the position of the selector dial or the combination of other instructions. s When selecting a preset station number s When selecting an input source 1 2 1 2 Press INPUT regardless of the position of the selector dial.

The indicator lights up for about three seconds. You can select an input source with the numeric buttons while the indicator is lit. Set code number "0023" in the AMP/TUN (or DSP/TUN) position. Refer to page 51 for setting the code. Set the selector dial to the AMP/TUN (or DSP/TUN) position. You can select a preset station number directly with the numeric buttons (1 to 8). Refer to page 29. 3 8 PREPARATION SPEAKER SETUP Speakers to Be Used This unit is designed to provide the best sound-field quality with a 5-speaker system, using main speakers, rear speakers and a center speaker. If you use different brands of speakers (with different tonal qualities) in your system, the tone of a moving human voice and other types of sound may not shift smoothly. We recommend that you use speakers from the same manufacture or speakers with the same tonal quality.

The main speakers are used for the main source sound plus the effect sounds. They will probably be the speakers from your present stereo system. The rear speakers are used for the effect and surround sounds, and the center speaker is for the center sounds (dialog, vocals, etc.). If for some reason it is not practical to use a center speaker, you can do without it. Best results, however, are obtained with the full system. The main speakers should be high-performance models and have enough power-handling capacity to accept the maximum output of your audio system. The other speakers do not have to be equal to the main speakers. For precise sound localization, however, it is ideal to use highperformance models that can reproduce sounds over the full range for the center speaker and the rear speakers. Speaker Placement Refer to the following diagram when you place the speakers.

Main speaker (R) Rear speaker (R) Subwoofer Main speaker (L) 1.8 m INTRODUCTION PREPARATION Center speaker Rear speaker (L) s Main speakers Place the right and left main speakers an equal distance from the ideal listening position.



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The distance of each speaker from each side of the TV monitor should be the same. BASIC OPERATION s Rear speakers Place these speakers behind your listening position, facing slightly inwards, nearly 1.8 m (approx.

6 feet) above the floor. s Use of a subwoofer expands your sound field It is also possible to further expand your system with the addition of a subwoofer. The use of a subwoofer is effective not only for reinforcing bass frequencies from any or all channels, but also for reproducing the LFE (low frequency effect) channel with high fidelity when playing back a source encoded with Dolby Digital or DTS. The YAMAHA Active Servo Processing Subwoofer System is ideal for natural and lively bass reproduction. s Center speaker ADVANCED OPERATION Align the front face of the center speaker with the front face of your TV monitor.

Place the speaker as close to the monitor as possible, such as directly over or under the monitor and centrally between the main speakers. Note · If the center speaker is not used, the center channel sound will be heard from the right and left main speakers. In that case, "CENTER SP" on the SET MENU is set to the NONE position. (Refer to page 39 for details.) s Subwoofer The position of the subwoofer is not so critical, because low bass sounds are not highly directional. But it is better to place the subwoofer near the main speakers. Turn it slightly toward the center of the room to reduce the wall reflections. APPENDIX CAUTION Some types of speakers interfere with a TV monitor. If this problem occurs, move the speakers away from the monitor. If you cannot avoid installing the center speaker or subwoofer near the TV monitor, use magnetically shielded speakers.

English 9 CONNECTIONS Before Connecting Components CAUTION Never connect this unit and other components to mains power until all connections between components have been completed. Be sure all connections are made correctly, that is to say L (left) to L, R (right) to R, "+" to "+" and "" to "". Some components require different connection methods and have different terminal names. Refer to the instructions for each component to be connected to this unit. When you connect other YAMAHA audio components (such as a tape deck, MD recorder and CD player or changer), connect it to the terminals with the same number labels as !, #, \$ etc. YAMAHA applies this labeling system to all its products. Use RCA-type pin plug cables for connecting audio/video components with the exception described later. The input and output terminals for pin plugs can be distinguished as follows: Yellow White Red video signals (composite) analog audio signals for the left channel analog audio signals for the right channel coaxial digital signals V V L R C L R C After completing all connections, check them again to make sure they are correct. Connecting the Antenna Connecting to an External (pages 11 and 12) Decoder (page 15) Connecting the Speakers (pages 16 and 17) Connecting the Power Supply Cords (page 18) (Europe model) A B Connecting an Audio Component (page 13) Connecting a Video Component (pages 14 and 15) IMPEDANCE SELECTOR switch (page 18) 10 CONNECTIONS Connecting the Antennas Both AM and FM indoor antennas are included with this unit. In general, these antennas should provide sufficient signal strength.

However, a properly installed outdoor antenna provides clearer reception than an indoor one. If you experience poor reception quality, an outdoor antenna may improve the quality. Connect each antenna correctly to the designated terminals. INTRODUCTION s Indoor FM antenna (included) Indoor FM antenna Firmly insert the connector into the FM ANT terminal. The indoor FM antenna is only a simple antenna.

For reception with better sound quality, installing the outdoor FM antenna (commercially available) is recommended. Note · Do not connect an outdoor FM antenna and the indoor FM antenna at the same time. PREPARATION s Outdoor FM antenna 75-ohm/300-ohm antenna adapter (included for U.K. model) 75-ohm coaxial cable 75-ohm/300-ohm antenna adapter (included for U.

K. model) You may be unable to obtain good FM radio reception depending on your local conditions (distance from the broadcasting station, interposing buildings and mountains, etc.). Consult your dealer or authorized service center and be sure to install an antenna that suits your local conditions. Install the outdoor FM antenna (commercially available) in a high place as far away from any roads as possible to avoid being affected by automobile ignition noise. BASIC OPERATION s Connecting a coaxial cable to the included 75-ohm/300-ohm antenna adapter (U.K. model only) 1 Cover ADVANCED OPERATION 2 1 11 (7/16) 8 (5/16) 6 (1/4) Open the cover of the included 75-ohm/ 300-ohm antenna adapter. Cut the external sleeve of the 75-ohm coaxial cable and prepare it for connection. Cut the lead wire and remove it.

Insert the cable wire into the slot, and clamp it with pliers. Snap the cover into place. Unit: mm (inch) 2 3 4 3 Lead wire 5 4 Clamp with pliers. Clamp with pliers. APPENDIX 5 Insert the wire into the slot. English 11 CONNECTIONS s AM loop antenna (included) AM loop antenna The AM loop antenna can be removed from the stand and attached to a wall, etc. However, note that the reception sensitivity may deteriorate if the antenna is attached to a metal or steel reinforced wall. Notes · The AM loop antenna should be placed away from this unit. · The AM loop antenna should always be connected, even if an outdoor AM antenna is connected to this unit. s Connecting the AM loop antenna 2 4 1 3 5 1 2 3 4 5 Press the tab and unlock the terminal hole.

Insert the AM loop antenna lead wires into the AM ANT and GND terminals. Return the tab to its original position to lock the lead wires. Lightly pull the lead wires to confirm a good connection. Attach the loop antenna to the antenna stand. Orient the AM loop antenna so that the best reception is obtained.

Antenna stand s Outdoor AM antenna Vinyl covered wire (5 m to 10 m) If you cannot obtain good reception with the AM loop antenna, connect 5 m to 10 m of vinyl covered wire to the AM ANT terminal and extend it outdoors from a window. s Ground (GND terminal) For maximum safety and minimum interference, connect the antenna GND terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth. 12 CONNECTIONS Connecting an Audio Component Turntable INTRODUCTION OUTPUT GND L R (Europe model) PREPARATION L R L R L R L R Analog signal BASIC OPERATION OUTPUT LINE OUT LINE IN Signal flow CD player Tape deck or MD recorder Be sure to connect the right channel (R), left channel (L), input (IN) and output (OUT) properly. s PHONO terminals These terminals are used to connect a turntable with an MM or high-output MC cartridge.



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If you have a turntable with a low-output MC cartridge, use an inline boosting transformer or MC head amplifier when connecting to these terminals. ADVANCED OPERATION y Connecting the ground (earth) wire of the turntable to the GND terminal will normally minimize hum, but in some cases, better results may be obtained with the ground wire disconnected. APPENDIX English 13 CONNECTIONS Connecting a Video Component TV monitor DVD/LD player Cable TV/satellite tuner S VIDEO ANALOG IN AUDIO OUT S VIDEO OUT COAXIAL DIGITAL OUT OPTICAL DIGITAL OUT COAXIAL DIGITAL OUT OPTICAL DIGITAL OUT S VIDEO OUT ANALOG AUDIO OUT L R C O C O L R S S S L Analog signal S L R L R S R S S Video signal Digital signal (optical) Digital signal (coaxial) Signal flow AUDIO IN AUDIO OUT S VIDEO OUT S VIDEO IN O (Europe model) S L R O VCR C S VIDEO OUT ANALOG AUDIO OUT OPTICAL DIGITAL OUT TV/digital TV s Audio signal terminals Be sure to connect the right channel (R), left channel (L), input (IN) and output (OUT) properly. Notes · Be sure to attach the covers when the OPTICAL terminals are not being used in order to protect them from dust. · If your LD player has a Dolby Digital RF signal output terminal, be sure to use the RF demodulator (separately purchased). · No sound will be heard when connecting your LD player's Dolby Digital RF signal output terminal directly to this unit's COAXIAL DVD/LD digital signal input terminal. s S Video signal terminals Use a special S VIDEO cable (commercially available) for the S VIDEO connection. s Digital audio signal terminals If your DVD/LD player, TV/digital TV or cable TV/satellite tuner, etc. has coaxial or optical digital signal output terminals, they can be connected to this unit's COAXIAL and/or OPTICAL digital signal input terminals. To make a connection between the optical digital signal terminals, remove the cover from each terminal, and then connect them by using a commercially available optical fiber cable that conforms to EIA standards.

Other cables might not function correctly. When making connections between the digital signal terminals, you should connect the components to the samenamed analog audio signal terminals of this unit, because a digital signal cannot be recorded by a tape deck, MD recorder or VCR connected to this unit. y · The input signal from the DVD/LD or CBL/SAT input terminals is selected in the following order of priority with the input mode set to AUTO:

COAXIAL terminal OPTICAL terminal Analog terminal. Refer to page 23 for details. · All digital signal input terminals are applicable to sampling frequencies of 32 kHz, 44.1 kHz, 48 kHz and 96 kHz. (Refer to page 24 about 96-kHz sampling 24-bit digital signals.) 14 CONNECTIONS s VIDEO terminals (composite) DVD/LD player VIDEO OUT V V Cable TV/satellite tuner VIDEO OUT If your video components do not have "S" video terminals, they can be connected to this unit's VIDEO terminals. Be sure to connect the input (IN) and output (OUT) properly. INTRODUCTION Note · If video signals are input from both the S VIDEO input and composite input terminals, the signals will be directed to their respective output terminals.

No connection L R V V V V V SCARTplug VIDEO IN VIDEO OUT VIDEO OUT VIDEO IN PREPARATION TV monitor TV/digital TV V VCR Video signal Signal flow s TV monitor with a 21-pin connector Make a connection as shown above with a commercially available SCART-plug connector cable. BASIC OPERATION s VIDEO AUX terminals (on the front panel) These terminals are used to connect any video input source such as a camcorder to this unit. S V L R AUDIO OUT R AUDIO OUT L VIDEO OUT S VIDEO OUT Camcorder ADVANCED OPERATION Connecting to an External Decoder External decoder SURROUND MAIN OUT OUT CENTER OUT SUBWOOFER OUT L R L R (Europe model) This unit has additional 6-channel audio signal input terminals for connecting an external decoder to this unit. Connect the 6-channel audio signal output terminals of the decoder to the EXTERNAL DECODER INPUT terminals of this unit. Notes · When a source connected to these terminals is selected, the digital sound field processor cannot be used. · The settings of "CENTER SP", "REAR SP", "MAIN SP" and "BASS OUT" on the SET MENU have no effect on a source connected to these terminals. The setting of "MAIN LVL" is effective. (Refer to pages 39 and 40 for details.) · Adjustment of the output level of the center speaker, rear speakers and subwoofer is effective when a source connected to these terminals is selected as the input source. (Refer to page 42 for details.)

) APPENDIX English 15 CONNECTIONS Connecting the Speakers Main speakers A Main speakers B Right Left Right Left (Europe model) Subwoofer connection When using a subwoofer with builtin amplifier, including the YAMAHA Active Servo Processing Subwoofer System, connect the input terminal of the subwoofer system to the SUBWOOFER OUTPUT terminal of this unit. Low bass signals distributed from the main, center and/or rear channels are directed to this terminal. (The cut-off frequency of this terminals is 90 Hz.) The LFE (low frequency effect) signals generated when Dolby Digital or DTS is decoded are also directed if they are assigned to this terminal. L R Right Subwoofer system Center speaker Rear speakers Left Be sure to connect the right channel (R), left channel (L), "+" (red) and "" (black) properly. If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound will be unnatural and lack bass. s MAIN SPEAKERS terminals One or two speaker systems can be connected to these terminals. If you use only one speaker system, connect it to either of the SPEAKERS A or B terminals. s REAR SPEAKERS terminals A rear speaker system can be connected to these terminals. CAUTIONS · Use speakers with the specified impedance shown on the rear panel of this unit.

· Do not let the bare speaker wires touch each other and do not let them touch any metal part of this unit. This could damage the unit and/or speakers. s CENTER SPEAKER terminals A center speaker can be connected to these terminals. 16 CONNECTIONS s Speaker cables 1 10 mm (3/8") Remove approx. 10 mm (3/8") of insulation from each of the speaker cables. Twist the exposed wires of the cable together to prevent short circuits. INTRODUCTION 2 1 2 s Connecting to the MAIN SPEAKERS terminals Red: positive (+) Black: negative (-) 1 2 3 1 2 3 Unscrew the knob. Insert one bare wire into the hole in the side of each terminal.



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Tighten the knob to secure the wire. PREPARATION s Connecting to the REAR and CENTER SPEAKERS terminals Red: positive (+) Black: negative (-) 3 2 1  
1 2 3 Open the tab.

Insert one bare wire into the hole of each terminal. BASIC OPERATION Return the tab to secure the wire. s Connecting to an external amplifier The speaker connections described on page 16 are fine for most applications. If you wish to drive your existing amplifier, the following terminals are available for connecting an external amplifier(s) to this unit. ADVANCED OPERATION Note · Output signals from these terminals are affected by the use of VOLUME, BASS, TREBLE and BALANCE.

1 (Europe model) 1 MAIN OUTPUT terminals These terminals are for the main channel line output. Connect the input terminals of the external amplifier to these terminals. 2 CENTER OUTPUT terminals These terminals are for the center channel line output. Connect the input terminals of the external amplifier to these terminals. APPENDIX 3 REAR (SURROUND) OUTPUT terminals These terminals are for the rear channel line output.

Connect the input terminals of the external amplifier to these terminals. 2 3 Note English · If an external amplifier is connected to the MAIN, CENTER or REAR OUTPUT terminals, disconnect the corresponding speakers (main, center or rear) from the SPEAKERS terminals. 17 CONNECTIONS IMPEDANCE SELECTOR Switch WARNING Do not change the IMPEDANCE SELECTOR switch setting while the power of this unit is on, otherwise the unit may be damaged. If this unit fails to turn on when STANDBY/ON (or POWER) is pressed, the IMPEDANCE SELECTOR switch may not be fully slide to either position. If so, slide the switch to either position fully when this unit is in the standby mode. Select the right or left position according to the impedance of speakers in your system. Be sure to move this switch only when this unit is in the standby mode. (Europe model) If you use left position If you use one pair of main speakers, the impedance of each speaker must be 4 or higher. If you use two pairs of main speakers, the impedance of each speaker must be 8 or higher. right position If you use one pair of main speakers, the impedance of each speaker must be 8 or higher.

If you use two pairs of main speakers, the impedance of each speaker must be 16 or higher. The impedance of each speaker must be 8 or higher. The impedance must be 8 or higher. IMPEDANCE SELECTOR Main speakers Rear speakers The impedance of each speaker must be 6 or higher. Center speaker The impedance must be 6 or higher. Connecting the Power Supply Cords After completing all connections, connect the AC power cord to an AC power outlet. Disconnect the AC power cord if you will not use this unit for a long period of time. s AC OUTLETS (SWITCHED) (Europe model) Europe model ...



..... 1 OUTLET Use these outlets to connect the power cords from your components to this unit.

The power to the AC OUTLET(S) is controlled by this unit's STANDBY/ON (or POWER and STANDBY). These outlets will supply power to any connected component whenever this unit is turned on. The maximum power (total power consumption of components) that can be connected to the AC OUTLET(S) is 100 W. To AC outlet SWITCHED 18 ADJUSTING THE SPEAKER BALANCE This procedure lets you adjust the sound output level balance between the main, center and rear speakers by using the built-in test tone generator. When this adjustment is performed, the sound output level heard at the listening position will be the same from each speaker. This is important for the best performance of the digital sound field processor, the Dolby Pro Logic decoder, Dolby Digital decoder and DTS decoder. Using the Test Tone The adjustment of each speaker sound output level should be performed at your listening position with the remote control. After completing the adjustments, use VOLUME (+/-) at your listening position to check if the adjustments are satisfactory. INTRODUCTION 2,7 1 6 5 3 PREPARATION Before You Start Adjusting 2 1 + + L R 1 3 4 Set the selector dial to the AMP/TUN (or DSP/TUN) position.

Press TEST.

"TEST LEFT" appears on the display. BASIC OPERATION 1 Set VOLUME to the "m" position. 2 2 3 Turn the power on. 3 Press SPEAKERS A or B to select the main speakers to be used. If you use two main speaker systems, press both A and B.

Set BASS, TREBLE and BALANCE to the "0" position. Turn up the volume. You will hear a test tone (like pink noise) from each speaker for about two seconds in the following order: left main speaker, center speaker, right main speaker, right rear speaker and left rear speaker. The display changes as shown below.

TEST LEFT TEST RIGHT ADVANCED OPERATION 4 TEST CENTER + + L R APPENDIX TEST L SUR.

TEST R SUR. Notes · If the test tone cannot be heard, turn down the volume, set the unit in the standby mode and check the speaker connections. · If the test tone cannot be heard from the center speaker, check the setting of "CENTER SP" on the SET MENU. English 19 ADJUSTING THE SPEAKER BALANCE 4

Adjust BALANCE on the front panel so that the sound output level of the right main speaker and the left main speaker is the same. Press TIME/LEVEL repeatedly to select the speaker to be adjusted. "CENTER", "R SUR." or "L SUR." appears on the display. 7 L R Front panel When the adjustment is complete, press TEST. "TEST OFF" appears on the display and the test tone stops.

5 Note · If "CENTER SP" on the SET MENU is set to the NONE position, the sound output level of the center speaker cannot be adjusted in step 6. The center channel sound is automatically output from the right and left main speakers. y · Once you have completed the adjustments, you can only adjust the overall volume level of your audio system by using VOLUME (or VOLUME (+/-)). · If you use external amplifiers, you may also use their volume controls to achieve the proper balance. · If there is insufficient sound output from the center and rear speakers, you may decrease the main speaker output level by setting "MAIN LVL" on the SET MENU to "10 dB". (Refer to page 40 for details.) y After pressing TIME/LEVEL once, you can also select the item by pressing d. (Pressing u changes the selection in the reverse order.) 6 Press i to raise and j to lower the level. Adjust the sound output levels of the center speaker and the rear

*speakers so that they become almost the same as that of the main speakers.*

*While adjusting, the test tone is heard from the selected speaker. Note · You cannot adjust the delay time while the test tone is being heard even if "DELAY" appears on the display.*



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20 BASIC OPERATION PLAYING A SOURCE When using the remote control, set the selector dial to the AMP/TUN position. 4 1,6 2 4 + + L R Select the desired input source with INPUT SELECTOR (or the input selector buttons). (Turn on the TV monitor for video sources.)

) The name of the selected input source appears for a moment and the arrow for the selected input source indicator lights up on the display. INTRODUCTION Front panel or PREPARATION Remote control 37 7 6 Input source a. 4 2 6 b. 1 Set VOLUME to the "m" position. To select a tape or an MD source Press TAPE/MD MON / EXT. DECODER (or TAPE/MD) so Front panel that the "TAPE/MD MONITOR" indicator lights up on the display. To select a source connected to the EXTERNAL DECODER INPUT terminals Press TAPE/MD MON / EXT. DECODER repeatedly (or EXT. DEC.) until "EXT. DECODER" appears on the display. BASIC OPERATION ADVANCED OPERATION Notes Front panel 2 Turn the power on. or Front panel Remote control 3 Press SPEAKERS A or B to select the main speakers to be used. If you use two main speaker systems, press both A and B. Front panel · If the "TAPE/MD MONITOR" indicator lights up or "EXT. DECODER" is shown on the display, no other audio source except a tape/MD source and a source connected to the EXTERNAL DECODER INPUT terminals can be played. To select another input source with INPUT SELECTOR (or the input selector buttons): Press TAPE/MD MON / EXT. DECODER twice (or TAPE/MD once) to turn off the "TAPE/MD MONITOR" indicator. Press TAPE/MD MON / EXT. DECODER once (or EXT. DEC.) to turn off "EXT. DECODER". · If you select and play a video source when the "TAPE/MD MONITOR" indicator lights up, the play back result will be a video image from the video source and the sound from the audio source connected to the TAPE/MD IN (PLAY) terminals. · A video source cannot be selected when "EXT. DECODER" is shown on the display. If you want to enjoy an audio source connected to the EXTERNAL DECODER INPUT terminals together with a video source, first select the video source and then select the source connected to the EXTERNAL DECODER INPUT terminals. APPENDIX English y For the DVD/LD, TV/digital TV and cable TV/satellite tuner sources, the current input mode is also shown. Refer to page 23 for details about the input mode. 21 PLAYING A SOURCE 5 Play the source.

Refer to the instructions for the source component (and page 27 for details about tuning). s To mute the sound Press MUTE on the remote control. To cancel mute, press MUTE. Note · When controlling an audio/video component (tape deck, MD recorder, CD player, DVD/LD player, etc.) with the remote control, set the selector dial to the appropriate position (TAPE/ MD, CD, DVD/LD, etc.)

), corresponding to the component you want to control. Refer to "PRESET REMOTE CONTROL" on page 45. Note · During muting, "MUTE ON" appears on the display. s When you have finished using this unit Press STANDBY/ON (or STANDBY) to set this unit in the standby mode. 6 Adjust the volume to the desired output level. If desired, adjust BASS, TREBLE, BALANCE, etc. These controls are only effective for sound from the main speakers. · BASS controls the low-frequency response. · TREBLE controls the high-frequency response. · BALANCE adjusts the balance of the output volume from the right and left main speakers.

s BGV (background video) function The BGV function allows you to combine a video image from a video source with a sound from an audio source. (For example, you can listen to classical music while you are watching a video.) This function can only be controlled with the remote control. Play a video source, and then select an audio source with the input selector buttons on the remote control. The BGV function does not work if you select the audio source with INPUT SELECTOR on the front panel. or Front panel Remote control + + L R Front panel 7 Use the digital sound field processor. Refer to page 25. or Front panel Remote control 22 PLAYING A SOURCE Input Mode (for the DVD/LD, TV/ digital TV and cable TV/satellite tuner sources) This unit allows you to switch the input mode for sources that send both digital and analog signals to this unit. The AUTO, DTS and ANALOG input modes are provided. When you turn on the power of this unit, the input mode for the DVD/LD source is always set to AUTO and for TV/ digital TV or cable TV/satellite tuner source is set according to "TV INPUT" and "CBL INPUT" on the SET MENU.

(Refer to page 41 for details.) s Switching the input mode Press INPUT MODE (or the input selector button that you have pressed to select the input source on the remote control) repeatedly until the desired input mode is shown on the display. or INTRODUCTION Front panel Remote control PREPARATION s AUTO In this mode, the input signal is selected in the following order of priority: 1. Digital signal encoded with Dolby Digital or DTS 2. Normal digital signal (PCM) 3.

Analog signal (ANALOG) Notes · Set the input mode to AUTO to play a DVD/LD source encoded with Dolby Digital. · The sound output may be interrupted for some LD and DVD players in the following situation: The input mode is set to AUTO. A search is performed while playing the disc encoded with Dolby Digital or DTS, and then disc playing is restored. The sound output is interrupted for a moment because the digital signal was selected again. · The input mode cannot be changed for the CD, TUNER, TAPE/ MD, VCR, PHONO and VIDEO AUX sources because only analog signals are used for these. · The current input mode appears on the display when the DVD/ LD, TV/digital TV or cable TV/satellite tuner source is selected, or the input mode is changed. Note · If digital signals are input from both the OPTICAL and COAXIAL terminals, the digital signal from the COAXIAL terminal is selected. BASIC OPERATION s DTS In this mode, only a digital signal encoded with DTS is selected, even if other signals are being input at the same time. s ANALOG In this mode, only an analog signal is selected, even if a digital signal is being input at the same time. Select this mode when you want to use an analog signal instead of a digital signal. ADVANCED OPERATION APPENDIX English 23 PLAYING A SOURCE s Notes on playing a source encoded with DTS · If "DATA ERROR" appears on the display while playing an LD source encoded with DTS, stop playback and turn the player off and then on again. · If the digital output data of the player has been processed in any way, you may not be able to perform DTS decoding even if you make a digital connection between this unit and the player.



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· If you play an LD source encoded with DTS and set the input mode to ANALOG, there will be the noise of an unprocessed DTS signal. When you want to play a DTS source, be sure to connect the source to the digital input terminal and set the input mode to AUTO or DTS. · If you switch the input mode to ANALOG while playing a source encoded with a DTS signal, this unit reproduces no sound.

· If you play a source encoded with DTS and set the input mode to AUTO, there will be a short noise at first while the unit recognizes the DTS signal and turns on the DTS decoder. This is not a malfunction, and can be avoided by setting the input mode to DTS beforehand. In addition, if you continue to play a source encoded with DTS with the input mode setting left to AUTO, this unit automatically switches to the "DTS-decoding" mode to prevent noise from being generated during subsequent operation. (The "t" indicator lights up on the display.) The "t" indicator will flash immediately after playback of a source encoded with DTS has finished. Only a source encoded with DTS can be played back while this indicator is flashing. If you want to play a normal PCM source soon, set the input mode back to AUTO. s Notes on playing an LD source · Some audio/video components, such as an LD player, output different audio signals through their analog and digital terminals. Change the input mode as necessary. · If the input mode is set to AUTO for the LD source, this unit automatically determines which type of signal the LD source contains.

If this unit detects a Dolby Digital or DTS signal, the decoder automatically switches to the appropriate setting and reproduces 5.1 channel sound. · If the LD player is transmitting signals by a non-normal method, this unit cannot detect the Dolby Digital or DTS signal. In this case, the decoder automatically switches to PCM or analog. · If the LD source does not contain a digital soundtrack, connect the LD player to the analog terminals and set the input mode to AUTO or ANALOG.

· While you are operating the LD player and playing a disc encoded with Dolby Digital, if you switch from the pause or chapter forwarding function to normal playback, you may hear the PCM or analog sound an instant before the Dolby Digital sound is played. s Notes on the digital signal The digital input terminal of this unit can also handle 96-kHz sampling 24-bit digital signals. (To utilize this, use a source that supports 96-kHz sampling 24-bit digital signals and set the player for digital output. Refer to the instructions for the player.) Note the following when a 96-kHz sampling 24-bit digital signal is input to this unit.

1. The following indicator will appear on the display. 2. DSP programs cannot be selected. Sound will be output as normal 2-channel stereo sound using only the right and left main speakers. 3. Delay time and speaker output level cannot be adjusted. 24 DIGITAL SOUND FIELD PROCESSOR (DSP) EFFECT  
Selecting a DSP Program You can enhance your listening experience by selecting a DSP program. Refer to pages 35 to 37 for details about each program. s On the remote control INTRODUCTION 1 2 3 Make sure that the effect speakers (center and rear) and subwoofer are turned on.

Press DSP. The indicator lights up for about three seconds. Use the numeric buttons (1 to 8) to select the desired program before the indicator goes off. The name of the selected program appears on the display. + + L R PREPARATION 2 2 DSP program name 3 If the selector dial is set to the DSP/TUN position, you can select a DSP program directly with the numeric buttons. BASIC OPERATION y If desired, adjust the delay time and the sound output level of each speaker. (Refer to pages 42 and 43 for details.) s On the front panel Notes · You can select a DSP program for each of the input sources. Once you select a program, it is linked with the input source selected at that time. So, when you select the input source next time, the same program is automatically selected. · When a monaural source is being played with PRO LOGIC/Normal or PRO LOGIC/ENHANCED, no sound will be heard from the main speakers and the rear speakers. Sound can only be heard from the center speaker. However, if "CENTER SP" on the SET MENU is set to the NONE position, the center channel sound is output from the main speakers. · When a source connected to the EXTERNAL DECODER INPUT terminals of this unit is selected, the digital sound field processor cannot be used. · When high-rate 96-kHz sampling 24-bit digital signals are input to this unit, no DSP program can be selected and the sound is only output from right and left main speakers as a normal 2-channel stereo sound.

1 2 Make sure that the effect speakers (center and rear) and subwoofer are turned on. Press PROGRAM h or l repeatedly to select the desired program. The name of the selected program appears on the display. ADVANCED OPERATION DSP program name APPENDIX English 25 DIGITAL SOUND FIELD PROCESSOR (DSP) EFFECT Canceling the Sound Effect (turning off the effect speakers) Press EFFECT to cancel the sound effect and monitor only the main sound. Press EFFECT again to turn the sound effect back on.

Front panel or Remote control y If the selector dial is set to a position other than the DSP/TUN position, first press DSP and then EFFECT on the remote control. Notes · If you turn off the sound effect when Dolby Digital or DTS is decoding, the sounds of the center and rear channels are mixed and output from the main speakers. · If you turn off the sound effect when Dolby Digital or DTS is decoding, it may happen that the sound is output faintly or not output normally, depending on the source. In this case, turn sound effect back on. 26 TUNING Automatic tuning is effective when station signals are strong and there is no interference. However, if the signal from the station you want to select is weak, you must tune in to it manually (manual tuning). 5 1 y Press PRESET/TUNING h once to tune in to a higher frequency or l once to tune in to a lower frequency. Press the button again if the tuning search does not stop at the desired station. INTRODUCTION PREPARATION + + L R 5 4 2 3 · Use the manual tuning method if the tuning search does not stop at the desired station (because the signal from the station is weak). · When tuned in to a station, the frequency of the received station is shown on the display.

If an RDS station that offers the PS data service is being received, the station name is shown instead of the frequency on the display. Automatic Tuning 1 Use INPUT SELECTOR to select the tuner as the input source. Press FM/AM to select the reception band (FM or AM). "FM" or "AM" appears on the display. or Manual Tuning 1 Use INPUT SELECTOR to select the tuner as the input source.



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Press FM/AM to select the reception band (FM or AM). "FM" or "AM" appears on the display. or BASIC OPERATION 2 2 3 3 Press TUNING MODE so that the "AUTO" indicator lights up on the display. Lights up Press TUNING MODE so that the "AUTO" indicator goes off. ADVANCED OPERATION Goes off 4 Press PRESET/TUNING (EDIT) to turn "z" off.

4 Press PRESET/TUNING (EDIT) to turn "z" off. Turn "z" off 5 Turn "z" off Press PRESET/TUNING h or l to tune in to the desired station. To continue the tuning search, hold down the button. APPENDIX Note · If you tune in manually to an FM station, it will be automatically received in monaural mode to increase the signal quality. English 27 TUNING Automatic Preset Tuning (for RDS stations only) You can make use of the automatic preset tuning function for RDS stations only.

This function enables the unit to automatically tune in with strong signals and to sequentially store up to 40 RDS stations (5 groups x 8 stations). (Refer to pages 31 to 33 for details on RDS stations.) s Automatic preset tuning options You can select the preset number from which the unit will store RDS stations and/or begin tuning toward lower frequencies. Before automatic preset tuning begins (after pressing MEMORY in step 3): 1. Press A/B/C/D/E and PRESET/TUNING h or l to select the preset number with which the first station will be stored.

The automatic preset tuning will stop when stations have all been stored up to E8. 2. Press PRESET/TUNING (EDIT) to turn "z" off and then press PRESET/TUNING l to begin tuning toward lower frequencies. + + L R s When automatic preset tuning is completed 13 2 The display shows the frequency of the last preset station. Check the contents and the number of preset stations by following the procedure in the section "To Recall a Preset Station" on page 29.

1 Press FM/AM to select the FM band. Notes · A new setting can be stored in place of the former one. · You can manually replace a preset station with another FM or AM station by simply using the manual preset tuning method. · Automatic preset tuning will be performed for all RDS network stations until all have been stored up to E8. Even if the number of received stations is not enough to be stored up to E8, automatic preset tuning is automatically ended after searching for all stations.

· Only RDS stations with sufficient signal strength are stored by automatic preset tuning. If the station you want to store is weak in signal strength, tune in to it manually in monaural mode and store it by using the manual preset tuning method. (There may be a case that this unit cannot receive a station which could be received by using the automatic tuning method. This is because this unit receives a large amount of PI (Program Identification) data along with the station.) 2 Press TUNING MODE so that the "AUTO" indicator lights up on the display. Lights up 3 Hold down MEMORY for about three seconds. The preset number, the "MEMORY" and "AUTO" indicators flash. After about five seconds, automatic preset tuning begins from the frequency currently displayed toward the higher frequencies. Flashes Received stations are sequentially stored as A1, A2 ..

· A8. If more than 8 stations have been tuned, they are stored as preset station numbers in other groups (B, C, D and E) in that order. Memory back-up The memory back-up circuit prevents the stored data from being lost when this unit is set in the standby mode. If, however, the power cord is disconnected from the AC power outlet or the power is cut for more than one week, the memory will be erased.

If so, store the stations again by using preset tuning methods. 28 TUNING Manual Preset Tuning You can also store up to 40 stations (5 groups x 8 stations) manually. To Recall a Preset Station You can recall any desired station simply by selecting the preset station number with which it was stored.

INTRODUCTION You can also recall a preset station with the remote control. Set the selector dial to the AMP/TUN position and press TUNER (number 2) to select the tuner as the input source.

+ + L R 3 4 2,5 + + L R PREPARATION 1 2 Tune in to the desired station. Refer to page 27 for the tuning procedure. Press MEMORY. The "MEMORY" indicator flashes for about five seconds. 1 2 Flashes BASIC OPERATION 3 Press A/B/C/D/E repeatedly to select the desired group (A to E) of preset stations before the "MEMORY" indicator goes off. Make sure that "z" appears on the display. The selected group appears on the display. 1 2 1 Press A/B/C/D/E to select the required group of preset stations. Make sure that "z" appears on the display. or Front panel Remote control ADVANCED OPERATION 4 Press PRESET/TUNING h or l to select a preset station number (1 to 8) with which you want to store the station before the "MEMORY" indicator goes off.

Press h to select a higher preset station number and l to select a lower preset station number. Press MEMORY before the "MEMORY" indicator goes off. The displayed station has been stored as the preset group and number you have selected, and the reception band and frequency appear on the display. 2 5 Press PRESET/TUNING h or l (or PRESET +/) to select a preset station number (1 to 8). The preset group and number appear on the display along with the reception band, frequency and signal strength information. or APPENDIX Front panel Remote control 6 Repeat steps 1 to 5 to store other stations. y English Notes · A new setting can be stored in place of the former one. · The reception mode (stereo or monaural) is stored along with the station frequency. You can select the preset station number with the numeric buttons (1 to 8) on the remote control if code number "0023" has been set in the AMP/TUN (or DSP/TUN) position. 29 TUNING Exchanging Preset Stations You can exchange the assignment of two preset stations with each other.

s Example: If you want to exchange preset station "E1" with "A5" 2,4 + + L R 1 2 Recall preset station "E1". Refer to the procedure in the section "To Recall a Preset Station" on page 29. Hold down (PRESET/TUNING) EDIT for about three second. "E1" and the "MEMORY" indicator flash. Flashes 3 Recall preset station "A5" by using the buttons on the front panel.

"A5" and the "MEMORY" indicator flash. Flashes 4 Press (PRESET/TUNING) EDIT again. The display shows the exchange of stations has been completed. 30 RECEIVING RDS STATIONS RDS (Radio Data System) is a data transmission system by FM stations in many countries.



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Stations using this system transmit an inaudible stream of data in addition to the normal radio signal.

RDS data contains various information such as PI (Program Identification), PS (Program Service name), PTY (Program Type), RT (Radio Text), CT (Clock Time), EON (Enhanced Other Networks), etc. The RDS function is carried out among the network stations. Changing the RDS Mode The four modes are available in this unit for displaying RDS data. When an RDS station is being received, PS, PTY, RT and/or CT mode indicators that correspond to the RDS data services offered by the station light up on the display. Press RDS MODE/FREQ repeatedly to change the display mode among the RDS data offered by the transmitting station in the order shown below. Illumination of the red indicator next to the RDS mode indicator shows that the corresponding RDS mode is now selected. INTRODUCTION PREPARATION Description of RDS Data This unit can receive PI, PS, PTY, RT, CT, and EON data when receiving RDS broadcasting stations. Notes · When an RDS station is being received, do not press RDS MODE/FREQ until one or more RDS mode indicators light up on the display. If you press the button before the indicators light up on the display, the mode cannot be changed. This is because the unit has not yet received all of the RDS data on the station.

· RDS data not offered by the station cannot be selected. · The RDS data service cannot be utilized by this unit if the received signal is not strong enough. In particular, the RT mode requires a large amount of data to be received, so it is possible that the RT mode may not be displayed even if other RDS modes (PS, PTY, etc.) are displayed. · RDS data cannot sometimes be received under poor reception conditions. If so, press TUNING MODE so that the "AUTO" indicator goes off from the display. Although the reception mode is changed to monaural by this operation, when you change the display to RDS mode, RDS data may be displayed. · If the signal strength is weakened by external interference during the reception of an RDS station, the RDS data service may be cut off suddenly and "...

WAIT" will appear on the display. PS mode s PS (Program Service name) mode: The name of the RDS station being received is displayed. s PTY (Program Type) mode: The program type on the RDS station being received is displayed. There are 15 program types to classify RDS stations. @@@@The selected program type name indicator lights up on the display.

INTRODUCTION Note · This function can only be used when an RDS station that offers the EON data service is being received. When such a station is being received, the "EON" indicator lights up on the display. Lights up · If a preset RDS station of the selected program type starts broadcasting, the unit will automatically switch from the program being currently received to that program. The program type name indicator flashes. PREPARATION + + L R Flashes 2 1 Make sure that the "EON" indicator lights up on the display.

If the "EON" indicator does not light up, tune in to another RDS station so that the "EON" indicator lights up. · When broadcasting of the required program ends, the previously received station (or another program on the same station) is recalled. BASIC OPERATION s To cancel this function Lights up Press EON repeatedly until no program type name lights up on the display. ADVANCED OPERATION APPENDIX English 33 RECORDING A SOURCE ON TAPE, MD OR VIDEO CASSETTE Recording adjustments and other operations are performed from the tape deck, MD recorder or VCR. Refer to the instructions for these components. y If a tape deck or MD recorder is being used for recording, you can monitor the sounds being recorded by pressing TAPE/MD MON / EXT. @@@@1 to No. 5: CINEMA DSP programs) No. @@@@It precisely reproduces the source sound in detail, giving both the video and the sound field incredible reality. It is ideal for any kind of video source encoded with Dolby Surround, Dolby Digital or DTS (especially large-scale movie productions).

Clearly reproduces dialog and sound effects in the latest sound form of science fiction films, thus creating a broad and expansive cinematic space amid the silence. You can enjoy science fiction films in a virtual-space sound field that includes Dolby Surround, Dolby Digital and DTS-encoded software employing the most advanced techniques. 3 MOVIE THEATER 2 [1] 70 mm ADVENTURE (ox) Dolby Surround 2-ch Dolby Digital · Output channel: 3 channels · DSP: 2 (presence & surround) [2] DGTL ADVENTURE (gx) · Input source: Dolby Digital · Output channel: 5.1 channels · DSP: 3 (presence & surround L, R) [3] DTS ADVENTURE (tx) · Input source: DTS · Output channel: 5.1 channels · DSP: 3 (presence & surround L, R) [4] 70 mm GENERAL (ox) Dolby Surround 2-ch Dolby Digital · Output channel: 3 channels · DSP: 2 (presence & surround) [5] DGTL GENERAL (gx) · Input source: Dolby Digital · Output channel: 5.1 channels · DSP: 3 (presence & surround L, R) [6] DTS GENERAL (tx) · Input source: DTS · Output channel: 5.1 channels · DSP: 3 (presence & surround L, R) · Input source: · Input source: Ideal for precisely reproducing the sound of the newest multi-track films. The sound field is made to be similar to that of the newest movie theaters, so the reverberations of the sound field itself are restrained as much as possible. The data for the sound field of an opera house are used for the front presence, so the three-dimensional feeling of the sound field is emphasized, and dialog is precisely oriented on the screen. By using the data for the sound field of a concert hall on the surround sound field, powerful reverberations are generated.

You can enjoy watching action, adventure movies, etc. with strong presence. This program is for reproducing sounds on a multi-track film, and is characterized by a soft and extensive sound field. The front presence of the sound field is relatively narrow. It spatially spreads all around and toward the screen, restraining echo effect of conversations without losing clarity.

For the surround sound field, the harmony of music or chorus sounds beautifully in a wide space at the rear of the sound field. 36 SOUND FIELD PROGRAM No. 4 PROGRAM MONO MOVIE (x) · Input source: · Output channel: · DSP: Monaural 1 channel 1 FEATURES This program is designed specifically to enhance monaural sources. Compared to a strictly mono setting, the sound image is wider and slightly forward of the speaker pair, lending an immediacy to the overall sound. It is particularly effective for old mono movie, news broadcasts and dialog.



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