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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVR-1306. You'll find the answers to all your questions on the DENON AVR-1306 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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## DENON

AV SURROUND RECEIVER

### AVR-1306

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OPERATING INSTRUCTIONS  
BEDIENUNGSANLEITUNG  
MODE D'EMPLOI  
ISTRUZIONI PER L'USO  
INSTRUCCIONES DE OPERACION  
GEBRUIKSAANWIJZING  
BRUKSANVISNING



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**Manual abstract:**

@@@Allow for sufficient heat dispersion when installed in a rack. @@Do not let foreign objects into the apparatus. @@Do not let insecticides, benzene, and thinner come in contact with the apparatus. Never disassemble or modify the apparatus in any way. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. No naked flame sources, such as lighted candles, should be placed on the apparatus. This remarkable component has been engineered to provide superb surround sound listening with home theater sources, such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources. @@@@ Noise or disturbance tends to occur particularly when using indoor antennas or 300 /ohm feeder wires. Pay attention to the following before using this unit: · Moving the unit To prevent short-circuits or damaged wires in the connection cables, always unplug the power supply cord and disconnect the connection cables between all other audio components when moving the unit. Before turning the power switch on Check once again that all connections are correct and that there are not problems with the connection cables.

Always set the power switch to the standby position before connecting and disconnecting connection cables. Store these instructions in a safe place. After reading, store this instructions along with the warranty card in a safe place. Note that the illustrations in these instructions may differ from the actual unit for explanation purposes. AUX terminals The AVR-1306's front panel is equipped with V.

aUX terminals. Remove the cap covering the terminals when you want to use them. Note: For heat dispersal, do not install this unit in a confined space such as a bookcase or similar enclosure. Switching the input source when input terminals are not connected. A clicking noise may be produced if the input source is switched when nothing is connected to the input terminals.

If this happens, either turn down the MASTER VOLUME control knob or connect components to the input terminals. Because of this, the output signals are greatly attenuated for several seconds after the power switch is turned on or the input source, surround mode or any other set-up is changed. If the volume is turned up during this time, the output will be very high after the muting circuit stops functioning. Always wait until the muting circuit turns off before adjusting the volume. Whenever the power switch is in the STANDBY state, the unit is still connected to AC line voltage. Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation. A NOTE ABOUT RECYCLING: This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations. When discarding the unit, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning chemical waste.

This product and the accessories packed together constitute the applicable product according to the WEEE directive except batteries. The included remote control unit (RC-1014) can be used to operate not only the AVR-1306 but other remote control compatible DENON components as well. In addition, the memory contains control signals for other remote control units, so it can be used to operate non-DENON remote control compatible products. Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the unit. When inserting the batteries, be sure to do so in the proper direction, following the "<" and ">" marks in the battery compartment. Do not use a new battery together with an old one. Do not use two different types of batteries. Do not short-circuit, disassemble, heat or dispose of batteries in flames. If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries. When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

For details on the functions of these parts, refer to the pages given in parentheses ( ). Point the remote control unit at the remote sensor on the main unit as shown in the diagram. The remote control unit can be used from a straight distance of approximately 7 meters from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor. The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote sensor. nOTE: · It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.

Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction. Neon signs or other devices emitting pulsetype noise nearby may result in malfunction, so keep the set as far away from such devices as possible. For details on the functions of these parts, refer to the pages given in parentheses ( ). The following is an example of the basic layout for a system consisting of six speaker systems and a television monitor: Subwoofer Center speaker system The Dolby Surround Pro Logic II Cinema or Music mode can be chosen directly by pressing the CINEMA or MUSIC button on the remote control unit during playback in the Dolby Surround Pro Logic II mode.

The DTS NEO:6 Cinema or Music mode can be chosen directly by pressing the CINEMA or MUSIC button on the remote control unit during playback in the DTS NEO:6 mode. (18) Front speaker systems Set these at the sides of the TV or screen with their front surfaces as flush with the front of the screen as possible. Connect the speaker terminals with the speakers making sure that like polarities are matched (< with <, > with >). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the stereo image being impaired. When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel.

NOTE: NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks. When making connections, also refer to the operating instructions of the other components. The protector circuit may be activated if the unit is operated for long periods of time at high volumes when speakers with an impedance lower than the specified impedance (for example speakers with an impedance of less than 4 /ohms) are connected. if the protector circuit is activated , the speaker output is cut off.

Turn off the unit's power, wait for the unit to cool down, improve the ventilation around the unit, then turn the power back on.



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*This unit is equipped with a high-speed protection circuit. The purpose of this circuit is to protect the speakers under circumstances such as when the output of the power amplifier is inadvertently short-circuited and a large current flows, when the temperature surrounding the unit becomes unusually high, or when the unit is used at high output over a long period which results in an extreme temperature rise. When the protection circuit is activated, the speaker output is cut off and the power supply indicator flashes. Should this occur, please follow these steps: be sure to switch off the power of this unit, check whether there are any faults with the wiring of the speaker cables or input cables, and wait for the unit to cool down if it is very hot. Improve the ventilation condition around the unit and switch the power back on. If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center. When speaker systems A and B are used separately, speakers with an impedance of 6 to 16 /ohms can be connected for use as front speakers. Be careful when using two pairs of front speakers (A + B) at the same time, since speakers with an impedance of 12 to 16 /ohms in this case must be used. Speakers with an impedance of 6 to 16 /ohms can be connected for use as center and surround speakers.*

*The protector circuit may be activated if the unit is operated for long periods of time at high volumes when speakers with an impedance lower than the specified impedance are connected. Precautions when connecting speakers: If a speaker is placed near a TV or video monitor, the colors on the screen may be disturbed by the speaker's magnetism. If this should happen, move the speaker away to a position where it does not cause this effect. To connect the digital audio output from the DVD player, you can choose from either the coaxial or optical connections. If you choose to use the coaxial connection, it needs to be assigned.*

*For more information about Digital Input Assignment ( page 15). Connect a non-DVD video disc player (such as a laser disc, VCD/SVCD, or future high definition disc player) to the DVD/VDP terminals in the same way. 43 A)) The power to this outlet is turned on and off in conjunction with the POWER switch on the main unit, and when the power is switched between on and standby from the remote control unit. No power is supplied from this outlet when this unit's power is at standby. Never connect equipment whose total power consumption exceeds 100 W (0.*

*Never use it for hair driers, TVs or other electrical appliances. Audio signal flow is shown with white arrows; video signal flow is shown with gray arrows. To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. When setting up this product, make sure that the AC outlet you are using is easily acceptable. Turning on the power Turn on your subwoofer. Turn on your monitor (TV). Set the POWER switch to this position to turn the power on and off from the included remote control unit. The power turns off and the indicator is off. In this position, the power cannot be turned on and off from the remote control unit. To select the surround mode while adjusting the surround parameters, tone defeat or tone control, press the SURROUND MODE button and then operate the selector.*

*Set the MODE 1 switch to "AUDIO" (only when operating with the remote control unit). The volume level is displayed on the master volume level (Remote control unit) display. The hookup diagrams on the subsequent pages assume the use of the following optional connection cables (not supplied). Do not plug in the power supply cord until all connections have been completed. When making connections, also refer to the operating instructions of the other components. Be sure to connect the left and right channels properly (left with left, right with right). Note that binding pin-plug cables together with power supply cords or placing them near a power transformer will result in hum or other noise. To connect the digital audio output from the TV or DBS tuner, you can choose from either the coaxial or optical connections. If you choose to use the coaxial connection, it needs to be assigned. For more information about Digital Input Assignment ( page kers that do not have sufficient ability to reproduce bass sound below the frequency set for the crossover frequency mode.*

*When this is set, bass sound with a frequency below the frequency set for the crossover frequency mode is sent to the subwoofer. None: Select this when no speakers are installed. Yes / No: Select "Yes" when a subwoofer is installed, "No" when a subwoofer is not installed. If the subwoofer has sufficient low frequency playback capacity, good sound can be achieved even when "Small" is set for the front, center and surround speakers. Press the CURSOR F or G button to set the distance from the front L speaker to the l surround R channel level, then press the CURSOR H button to switch to the surround L channel level (manual mode).*

*Press the CURSOR F or G button to set the surround L channel level, then press the CURSOR H button to switch to the subwoofer channel level (manual mode). Press the CURSOR F or G button to set the subwoofer channel level, then press the ENTER button to finish the test tone. Before playing with the surround function, be sure to use the test tones to adjust the playback level from the different speakers. This adjustment can be performed with the system setup or from the remote control unit, as described below. Adjusting with the remote control unit using the test tones is only possible in the "Auto" mode and only effective in the STANDARD (DOLBY/DTS SURROUND) modes.*

*The adjusted levels for the different modes are automatically stored in the memory. Test tones are output from the different speakers. Auto: Adjust the level while listening to the test tones produced automatically from the different speakers. Manual: Select the speaker from which you want to produce the test tone to adjust the level. Press the CURSOR F or G button to set the front L channel level, then press the CURSOR H button to switch to the center channel level (manual mode). When adjusting the level of an active subwoofer system, you may also need to adjust the subwoofer's own volume control. When you adjust the channel levels while in the system setup channel level mode, the channel level adjustments made will affect all surround modes. Consider this mode a master channel level adjustment mode. After you have completed the system setup channel level adjustments, you can then activate the individual surround modes and adjust channel levels that will be remembered for each of those modes. Then, whenever you activate a particular surround sound mode, your preferred channel level adjustments for just that mode will be recalled.*

*This setting assigns the digital input terminals of the AVR-1306 for the different input sources.*



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One of 7 preset surround modes can be selected according to the program source and the parameters can be adjusted according to the conditions in the listening room to achieve a more realistic, powerful sound. Use this mode to enjoy stereo sound. This mode gives jazz a very vivid realism. Use this to enjoy video game sources. Obtain a "Y" adapter cable to split the mono output to two outputs, and connect to the L and R inputs. This set is equipped with a personal memorize function that automatically memorizes the surround modes and input modes selected for the different sources. When the input source is switched, the modes set for that source last time it was used are automatically recalled.

The surround parameters, tone control settings and playback level balance for the different output channels are memorized for each surround mode. DSP surround simulation 2 To operate the surround mode and the surround parameters from the remote control unit The surround parameter switches in the following order each time the SURROUND PARAMETER button is pressed for the different surround modes. The surround mode switches in the following order each time the DSP SIMULATION button is pressed: This parameter is displayed during DOLBY DIGITAL playback. This parameter is displayed during DOLBY DIGITAL and DTS playback. ROOM SIZE: This sets the size of the sound field.

"small" recreates a small sound field, "large" a large sound field. EFFECT LEVEL: This sets the strength of the surround effect. The level can be set in 15 steps from 1 to 15. Lower the level if the sound seems distorted. DELAY TIME: The delay time can be set within the range of 0 to 110 ms only in the matrix mode.

TONE CONTROL: This can be set individually for each surround mode except DIRECT. To select the surround mode while adjusting the surround parameters, tone defeat or tone control, press the SURROUND MODE button, then operate the selector. The parameters which can be set differ for the different surround modes are displayed. Display the parameter you want to adjust, then turn the SELECT knob to set it. You can adjust the channel level either according to the playback sources or to suit your taste, as described below. Press the CH VOL button on the main unit or CH SELECT button on the remote control unit to select the speaker whose level you want to adjust. Turn the SELECT knob to adjust the level of the bass or treble. (The bass or treble sound can be decreased down to 12 dB in steps of 2 dB. Turn the SELECT knob, and press the CURSOR F or G button to adjust the level of the selected speaker. If you do not want the bass and treble to be adjusted, turn on the tone defeat mode.

The level of the selected speaker can be adjusted within the range of +12 to 12 dB by pressing the CURSOR buttons. The SW channel level can be turned off by decreasing it one step from 12 dB. The signals do not pass through the bass and treble adjustment circuits, thus resulting in higher quality sound. Listening to the radio Auto preset memory This unit is equipped with a function for automatically searching for FM broadcast stations and storing them in the preset memory. When the first FM broadcast station is found, that station is stored in the preset memory at channel A1. Subsequent stations are automatically stored in order at preset channels A1 to A8, B1 to B8, C1 to C8, D1 to D8, E1 to E8, F1 to F8 and G1 to G8 for a maximum of 56 stations. Channel A1 is tuned in after the auto preset memory operation is completed. Automatic searching begins, then stops when a station is tuned in. When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcast is tuned in. At open frequencies, the noise is muted and the "TUNED" and "STEREO" indicators turn off.

If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation. RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal. The following three types of RDS information can be received with this unit: The program types and their displays are as follows: The frequency changes continuously when the button is held in. When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off. To preset other channels, repeat steps 1 to 4.

A total of 56 broadcast stations can be preset -- 8 stations (channels 1 to 8) in each of blocks A to G. TP identifies programs that carry traffic announcements. This allows you to easily find out the latest traffic conditions in your area before leaving home. NOTE: The operations described below using the RDS, PTY and RT buttons will not function in areas in which there are no RDS broadcasts. Watching the display, press the SHIFT button to select the preset memory block.

If no RDS stations are found with the above operation, all the reception bands are searched. When a broadcast station is found, that station's name appears on the display. Watching the display, press the PTY button to call out the desired program type. If no TP station is found with the above operation, all the reception bands are searched. If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched. If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed. While receiving an RDS broadcast station, the text data broadcast from the station is displayed. To turn the display off, press the RT button again. Manual search (forward and reverse) Stop Play Auto search (cue) Pause Switch discs (for CD changers only) Switch preset channel range Preset channel up/down Frequency up/down Switch between the AM and FM bands Switch between auto and mono Preset memory TUNER can be operated when the switch is at "AUDIO" position. Rewind Fast-forward Stop Forward play Reverse play Switch between decks A and B While this remote control is compatible with a wide range of infrared controlled components, it may be the case that some component models cannot be operated with this remote control.

DENON and other makes of components can be operated by setting the preset memory. This remote control unit can be used to operate components of other manufacturers without using the learning function by registering the manufacturer of the component as shown in the list of preset codes ( End of this manual). Operation is not possible for some models. The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit's transmitting window while setting the preset memory. Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed in the list of preset codes.



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1" channels front left, front right, center, surround left, surround right, and an additional channel exclusively reserved for additional deep bass sound effects (the Low Frequency Effects LFE channel, also called the ". 1" channel , containing bass frequencies of up to 120 Hz). Unlike the analog Dolby Pro Logic format, Dolby Digital's main channels can all contain full range sound information, from the lowest bass, up to the highest frequencies 22 kHz. The signals within each channel are distinct from the others, allowing pinpoint sound imaging, and Dolby Digital offers tremendous dynamic range from the most powerful sound effects to the quietest, softest sounds, free from noise and distortion. In addition, the surround channels were monaural (the surround left and right channels were the same) with previous Dolby Pro Logic, but with Dolby Pro Logic II they are played as stereo signals. Various parameters can be set according to the type of source and the contents, so it is possible to achieve optimum decoding ( page 40). sources recorded in Dolby Surround . These are sources in which three or more channels of surround have been recorded as two channels of signals using Dolby Surround encoding technology.

Dolby Surround is used for the sound tracks of movies recorded on DVDs, LDs and video cassette tapes, as well as for stereo broadcast signals from FM radio, TV, satellite broadcasts and cable TV. @@@@In some cases players are equipped with both "bit stream + PCM" and "PCM only" digital outputs. 2 Sources recorded in Dolby Surround are indicated with the logo symbol shown below Dolby Pro Logic II is a new multi-channel playback format developed by Dolby Laboratories using feedback logic steering technology and offering improvements over conventional Dolby Pro Logic circuits. Dolby Pro Logic II can be used to decode not only sources recorded in Dolby Surround ( ) but also regular stereo sources into five channels (front left, front right, center, surround left and surround right) to achieve surround sound. 1" playback channels as Dolby Digital (front left, front right, center, surround left and surround right) as well as the stereo 2-channel mode.

The signals for the different channels are fully independent, eliminating the risk of deterioration of sound quality due to interference between signals, crosstalk, etc. @@@@There are also music CDs recorded in DTS. @@DTS surround track playback offers the same intricate, grand sound as in a movie theater, right in your own listening room. This mode applies conventional 2-channel signals to the high precision digital matrix decoder used for DTS-ES Matrix 6. 1 channels, and separation between the different channels is improved to the same level as that of a digital discrete system.

@@ 1-channel sources. This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB) channels. Changes in the sound quality are reduced by decoding with emphasis on the front channel signals (FL and FR), and a natural sense of expansion is given to the sound field by the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels. 1: DTS signals are recorded in the same way on CDs and LDs as PCM signals. Because of this, the un-decoded DTS signals are output as random "hissing" noise from the CD or LD player's analog outputs. If this noise is played with the amplifier set at a very high volume, it may possibly cause damage to the speakers. To avoid this, be sure to switch the input mode to "AUTO" or "DTS" before playing CDs or LDs recorded in DTS. Also, never switch the input mode to "ANALOG" or "PCM" during playback. The same holds true when playing CDs or LDs on a DVD player or LD/DVD compatible player. For DVDs, the DTS signals are recorded in a special way so this problem does not occur.

2: The signals provided at the digital outputs of a CD or LD player may undergo some sort of internal signal processing (output level adjustment, sampling frequency conversion, etc. ). In this case the DTS-encoded signals may be processed erroneously, in which case they cannot be decoded by the AVR-1306, or may only produce noise. Before playing DTS signals for the first time, turn down the master volume to a low level, start playing the DTS disc, then check whether the DTS indicator on the AVR-1306 ( page 23) lights before turning up the master volume. 3: A DVD player with DTS-compatible digital output is required to play DTS DVDs. Signals and adjustability in the different modes Channel output Mode FRONT L/R DIRECT STEREO EXTERNAL INPUT

DOLBY PRO LOGIC II DTS NEO:6 DOLBY DIGITAL DTS SURROUND 5CH STEREO ROCK ARENA JAZZ CLUB VIDEO GAME MONO MOVIE MATRIX VIRTUAL C C C C C C C C C C C C C C C C CENTER E E B B B B B B B B B B SURROUND L/R E E B B B B B B B B B B SUBWOOFER B B B B B B B B B B B B B B B B When playing Dolby Digital signals C C E C \* C \* C E C C C C C C C C : Able E : Unable \* : Only for 2 ch contents When playing DTS signals C C E C \* C \* E C C C C C C C C C C C When playing PCM signals C C E C C C E E C C C C C C C C C C When playing ANALOG signals C C C C C E E C C C C C C C C D. Signals and adjustability in the different modes Surround parameter PRO LOGIC II only EFFECT LEVEL DELAY TIME E E E E E E E E C (10) C (10) C (10) C (10) E E E E E E E E E E E E E E C (30 msec) E SUBWOOFER ON/OFF C (OFF) E E E E E E E E E E E E PANORAMA E E E C (OFF) E E E E E E E E E E DIMENSION E E E C (3) E E E E E E E E E E CENTER WIDTH E E E C (3) E E E E E E E E E E Power amplifier Rated output: Front: 75 W +75 W (8 /ohms, 20 Hz ~ 20 kHz with 0. \* For purposes of improvement, specifications and design are subject to change without notice. \*[ ] : Preset codes set upon shipment from the factory. .



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