

DENON

DTS-ES and Dolby Digital EX A/V Receiver

AVR-485

TENTATIVE

DTS-ES Discrete 6.1 and Dolby Digital EX with Power Amps for 6 Channels



- **High-Quality Sound Reproduction**
- NEW High Resolution 32bit Floating Point DSP
- 96 kHz Processing Circuit
- 24 bit, 96 kHz High Resolution D/A Conversion

■ 3 Sets of Component Video Inputs

The AVR-485 is equipped with 3 sets of assignable, component video inputs and 1 set of monitor outputs (all RCA terminals). In addition, this model has 3 sets of S-Video inputs.

■ Fully Discrete, Equal Power Six Amplifier Channels, 75 Watts Each

Front	110 W + 110 W	(6 ohms, 1kHz, 0.7 % THD)
Center	110 W	(6 ohms, 1kHz, 0.7 % THD)
Surround	110 W + 110 W	(6 ohms, 1kHz, 0.7 % THD)
Surr. Back	110 W	(6 ohms, 1kHz, 0.7 % THD)

For optimum Dolby Digital and DTS reproduction, the AVR-485 features high quality, wideband audio amplification, providing 75 watts power output for each of the six main channels. A large capacity power supply which includes a high current power transformer along with discrete power output devices on all six amplifier channels for highest dynamic range and superb reproduction clarity.

■ Wide-Range Play Capability for DVD-Audio and Super Audio CD

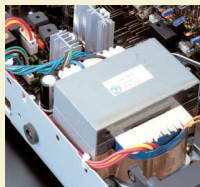
The power amp circuits of the AVR-485 have been meticulously designed to reproduce exceptionally high sound quality with a wide frequency response from 10 Hz to 100 kHz.

■ DENON's Basic Design for High-Quality Sound Reproduction

• Power Transformer for High Power Driven

The chassis that supports the large transformer has been designed to absorb vibration, and the transformer is housed inside a highly rigid frame to secure it more solidly to the chassis. In addition, a cushioning material has been placed around the core of the transformer to minimize interference on the signal and enable more faithful reproduction of the original sound.

The AVR-485 inherits these low-noise design from higher-end models, like the highly acclaimed AVR-3805.

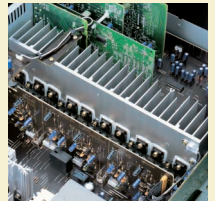


• Twin Drive Rectifier

DENON's Twin Drive Rectifier design uses two rectifying diodes in parallel to bring out the maximum potential of the large transformer. Since the rectifiers recharge the large block capacitors at low impedance, they are able to supply ample current to accurately reproduce deep bass as well as sudden bursts of sound from percussion or other musical instruments.

• Large Aluminum Extruded Heatsink

DENON uses large heatsink made of extruded aluminum. They have been placed in a design that ensures mostly uniform temperatures throughout the heatsink so that the output transistors for all channels can be driven under uniform conditions. This in turn ensures that all channels respond with equal performance to the demands of the audio signals.



■ Cinema Equalizer

The sound from movie sources recorded in Dolby Digital, DTS or other formats emphasize higher frequencies due to a theater's front speakers being placed behind the movie screen. If this sound is reproduced in the home theater without correction, the high-frequency range is too strong. The AVR-485 features a Cinema Equalizer to correct these high-frequency components so that the sound is clearer and easier to listen to. (For Dolby Digital, Dolby Pro Logic IIx, and DTS surround modes)

■ Personal Memory Plus, for Easy Operation

The AVR-485 includes the Personal Memory Plus function that automatically remembers the surround mode you last used for each program source, so that you do not need to select the mode again for that program.

■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V receivers, the AVR-485 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-485 to suit your own home theater and enhance operating ease. The adjustments are easy to make via a dialog format on the fluorescent display on the front panel. These customized features are then stored, for each source input and surround mode, in Personal Memory Plus so constant readjustments are not required.

Multi-Function Preset Memory Remote Controller with Glo-keys

The supplied system remote controller features a large selection of remote control codes to operate other components in your home theater system, including codes for selected DENON models, along with remote control codes from other manufacturers*. The most frequently used buttons are laid out separately for TV, VCR and DVD, for maximum ease-of-use.

* Some Remote control codes may not be available for all products of other manufacturers and some DENON products.

DENON's Latest Surround Technology Faithfully Recreates the Surround Sound Produced at the Dubbing Stage.

- DTS 96/24 Decoding for DVD-Video
- DTS-ES Discrete 6.1 and Matrix 6.1
- DTS NEO:6
- Dolby Digital EX
- Dolby Pro Logic IIx

6 Channel Stereo Mode

DENON's popular 6 Channel Stereo mode transforms your favorite 2-channel sources such as CD, tape, stereo radio and stereo video sources into exciting surround sound, free of delay effects and unnatural artifacts, from all six speakers. This 6 Channel Stereo mode was originally developed by DENON to enhance music lovers' enjoyment of home theater ambience, but it now can be enjoyed with any source material.

Virtual Surround Mode

Surround yourself with sensational 3D soundfield envelopment using just one pair of speakers. The AVR-485's Virtual Surround mode provides a dramatic psychoacoustic surround sound effect, using two speakers with Dolby Digital 5.1 encoded sources.

DENON DSP Surround Modes Add Listening Excitement

Put yourself in the middle of your favorite concert hall and music environments with DENON's DSP acoustic environment simulation modes. These DSP modes add spacious surround sound enhancements to your favorite music and video sources, and include these distinctly different sounding effects:

- | | |
|---------------------|---------------|
| 1. 6 Channel Stereo | 5. Video Game |
| 2. Virtual Surround | 6. Matrix |
| 3. Rock Arena | 7. Mono Movie |
| 4. Jazz Club | |

Adjustable Cross-Over Switching

The AVR-485 supports subwoofer cross-over switching with a choice of 8 cross-over frequencies: 40/60/80/100/120/150/200/250Hz. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

- Front Panel Inputs
- Front A/B Speaker Terminals
- High-grade Speaker Terminals (All ch)

Frequency Synthesis Tuning

- 56-Station AM/FM Random Preset Memory Tuning
- Auto Preset Memory

Specifications

Input/Output Terminals For Every A/V System

Audio Inputs

- 8 Analog Inputs CD, (TUNER), DVD/VDP, TV/DBS, AUX, VCR, CDR/TAPE, V.AUX(FRONT)
- 6 Analog EXT. Input..... FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
- 1 Digital (Optical) Input OPTICAL X 1
- 1 Digital (Coaxial) Input..... COAXIAL X 1

Audio Outputs

- 1 Analog PRE OUT Terminals SUBWOOFER
- 2 Analog REC OUT Terminals..... VCR, CDR/TAPE

Video Inputs

- 3 Component Video Input DVD/VDP, TV/DBS, VCR
- 4 Composite Inputs DVD/VDP, TV/DBS, VCR, V.AUX(FRONT)
- 3 S-Video Inputs DVD/VDP, TV/DBS, VCR

Video Outputs

- 1 Component Video Output MONITOR
- 2 Composite Outputs VCR, MONITOR
- 2 S-Video Outputs..... VCR, MONITOR

Power Amplifier Section

Rated output	*THD figures are power amp stage values.	
Front	75 W + 75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W + 110 W	(6 ohms, 1 kHz, 0.7 % THD)
Center	75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround	75 W + 75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W + 110 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround Back	75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W	(6 ohms, 1 kHz, 0.7 % THD)

Preamplifier Section

- Input sensitivity/Impedance
CD, DVD/VDP, TV/DBS, VCR, CDR/TAPE, AUX, V.AUX(FRONT)..... 200 mV/47 kohms
- Output level/Load impedance
SUBWOOFER..... 1.2 V/10 kohms
CDR/TAPE, VCR..... 200 mV/47 kohms
- Frequency response..... 10 Hz - 100 kHz (+1, -3 dB) (Tone Defeat On)
- Signal-to-noise ratio..... 98 dB (IHF-A weighted) (Tone Defeat On)
- Tone control..... Treble: ±10 dB at 10 kHz
Bass: ±10 dB at 100 Hz

FM Section

- Tuning frequency range..... 87.5 - 107.9 MHz
- Usable sensitivity..... 1.0 µV (11.2 dBf)

AM Section

- Tuning frequency range..... 520 - 1710 kHz
- Usable sensitivity..... 18 µV

General

- Power supply AC 120 V, 60 Hz
- Power consumption 3.8 A
- Dimensions 434 (W) x 147 (H) x 417 (D) mm
17.1" (W) x 5.8" (H) x 1.4" (D)
- Weight 10.3 kg, 22.7 lbs



*Design and specifications are subject to change without notice.
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