

DENON

NEW MODEL INFORMATION

AVR-2800

Dolby Digital and DTS AV Receiver



Outstanding surround sound an affordable price, with Dolby Digital and DTS decoding.

Featuring the latest in Dolby Digital and DTS decoding technology, the AVR-2800 provides outstanding home theater surround sound performance. The heart of the AVR-2800 is Denon's Dynamic Discrete Surround Circuit-Digital technology, incorporating high performance dual DSP chips and superior A/D and D/A conversion devices. This provides superb listening results, with virtually any home theater or music source. Prepared for the future, the AVR-2800 features 6-Channel external input, for connection to future multi-channel surround formats. A high quality, discrete power output section provides a total system power of 425 watts RMS into 8 ohms. Full 24 bit, 96 kHz digital-to-analog D/A converters on all 6 channels (3 stereo pairs) provide transparent reproduction of multi-channel music and motion picture soundtracks with outstanding dynamic range and superb low level resolution. Outstanding surround sound an affordable price, with Dolby Digital and DTS decoding. The AVR-2800's remote controller features an easy-to-use layout where most frequently used buttons are provided in different colors and shapes for easy recognition, even while keeping your eyes on the screen. The buttons also feature "Self-illuminated GLO-KEY" for easy operation in the dark.

■ Equal Power Discrete Power Amplifier

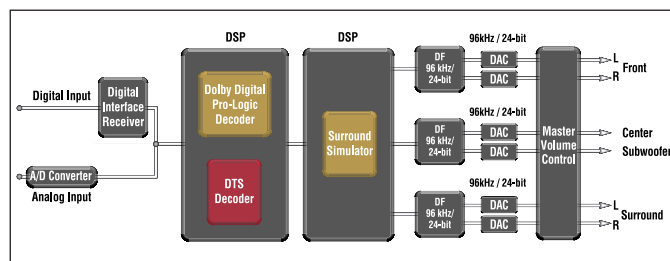
Front 85 W + 85 W (8 ohms, 20Hz - 20kHz, 0.05% THD)
Center 85 W (8 ohms, 20Hz - 20kHz, 0.05% THD)
Surround 85 W + 85 W (8 ohms, 20Hz - 20kHz, 0.05% THD)

All five power amplifier channels feature discrete power output devices, and all five amplifier channels provide equal power with lowest distortion. Each channel is rated at 85 watts, into 8 ohms, from 20 Hz - 20 kHz, with no more than 0.05% THD. A hallmark of Denon A/V component design, the equal power amplifier provides outstandingly accurate reproduction of motion picture soundtracks and multi-channel music programs.



■ DDSC-Digital (Dynamic Discrete Surround Circuit-Digital)

Since surround signals are all processed in the digital domain, the AVR-2800 is equipped with a newly-developed, sophisticated, high-performance dual DSP circuit for the Dolby Digital, Dolby Pro Logic, dts decoders, and Surround Simulator. The D/A converters feature high resolution designs for all the Front L/R, Center, Surround L/R, and Subwoofer channels. This combination of DSP and D/A converters works to bring out the tremendous potential of Dolby Digital and dts sound. In addition, high resolution A/D converters have been incorporated for the Dolby Pro Logic decoder. The high sound quality of New DDSC-Digital is due in part to the high-grade signal processing of the 24-bit, 96-kHz Digital Interface Receiver (DIR). The AVR-2800 not only allows digital signals input from DVD and other advanced media to pass directly to the DIR, it also processes them while preserving their integrity so that even the most delicate nuances of the music, reflecting the emotions of the artists, are passed unfettered to the dual digital signal processors (DSP).



Dynamic Discrete Surround Circuit-Digital Block Diagram

■ Dolby Digital

Dolby Digital and Dolby Pro Logic decoding functions are performed in the digital domain for excellent dynamic range and crystal clear reproduction.

■ DTS

Digital Theater Systems decoding provides thrilling movie and music multi-channel surround sound.

■ 96kHz, 24-bit Audio D/A Converters

■ 6-Channel External Input For Future Multi-Channel Formats

■ Separate Current Supplies for Circuits

The AVR-2800 is equipped with a main transformer featuring independent 5-winding outputs, and a dedicated transformer for the microprocessor, to completely separate the power amplifier, audio, digital, video, and display circuits. This construction reduces noise interference among the circuits and ensures a clean, transparent sound.

■ Hefty Power Transformer for Stable Supply of Power

A power transformer has been connected in the power section where it is combined with a rectifier diode and a large block capacitor to ensure a large, stable supply of electrical current. Accordingly, the AVR-2800 boasts high output power of 85 W for each of the 5 channels.

■ Stable Speaker Drive

In the AVR-2800, the circuitry through which current flows to drive the speakers has been incorporated onto a single board between the rectifier circuit of the power source and the speaker terminals. A new phase correction circuit has also been adopted, eliminating the need for an output coil. Since this configuration allows the power transistor to drive the speakers directly, there is no loss of power to any of the channels. The sound that you hear is thus extremely stable as well as powerful.

■ Pre Outputs for System Upgrading

The pre-out terminals on the AVR-2800 is offered for Front L/R, Center and Mono (Subwoofer) channels. A separate power amp can be connected to these terminals to upgrade your system.

■ Video Select Switch

This function lets you select video sources independently of the audio sources.

■ All-channel Level Control

■ Binding Post Speaker Terminals for All Channels

■ Icon-based On-Screen Display

The AVR-2800 provides an On-Screen Display (OSD) featuring icons (pictorial representations) to let you easily monitor the current operating status.

■ Personal Memory Plus

The handy Personal Memory Plus function allows you to store the surround mode, the level settings for all speakers, as well as the delay time, to further customize the sound source. Simply push any source button and it will instantly display the settings stored for that source.

■ Multi-function Remote Controller

- Self-illuminated GLO-KEY Remote Controller with Easy Recognition Layout
- System Call Function to execute up to 10 successive pre-assigned commands at the single touch of a button
- Pre-Memory and Programming Function for non-DENON components

■ Frequency Synthesis Tuning

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

■ Other Features

- Cinema Equalizer
- Music Surround Modes Including 5-channel Stereo
- "S" and Composite Video Switching
- Front A/B Speaker Switching
Connect another pair of stereo speakers in another room.
- Tone Control
- 2 Switched AC Outlets

■ Input/Output Terminals For Every A/V System

● Audio Inputs

3 Digital (Optical) Input	OPTICAL x 3
1 Digital (Coaxial) Input	COAXIAL x 1
9 Analog Inputs	PHONO, CD, TUNER, DVD, VDP, TV/DBS, VCR-1, VCR-2/V-AUX, MD/TAPE
6 Analog EXT. Inputs	FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER

● Audio Outputs

4 Analog Pre Outputs	FRONT L/R, CENTER, SUBWOOFER
3 Analog Rec Outputs	VCR-1, VCR-2/V-AUX, MD/TAPE

● Video Inputs

5 S-Video Inputs	DVD, VDP, TV/DBS, VCR-1, VCR-2/V-AUX
5 Composite Inputs	DVD, VDP, TV/DBS, VCR-1, VCR-2/V-AUX

● Video Outputs

3 S-Video Outputs	VCR-1, VCR-2/V-AUX, MONITOR
3 Composite Outputs	VCR-1, VCR-2/V-AUX, MONITOR

Specifications

■ Power Amplifier Section

Rated output	*THD figures are power amp stage values.
Front	85 W + 85 W (8 ohms, 20Hz - 20kHz, 0.05% THD)
Center	85 W (8 ohms, 20Hz - 20kHz, 0.05% THD)
Surround	85 W + 85 W (8 ohms, 20Hz - 20kHz, 0.05% THD)

■ Preamplifier Section

Input sensitivity/Impedance	
PHONO(MM)	2.5 mV/47 kohms
CD, DVD, VDP, TV/DBS, VCR-1 VCR-2/V-AUX, MD/TAPE, FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER	200 mV/47 kohms
Output level/Load Impedance	
FRONT L/R, CENTER, SUBWOOFER	1.2 V/10 kohms
VCR, MD/TAPE, MONITOR	200 mV/47 kohms
RIAA deviation	±1 dB (20 Hz - 20 kHz)
Tone control	Treble: ±10 dB at 10 kHz Bass: ±10 dB at 100 Hz

■ FM Section

Tuning frequency range ...	87.50 - 107.90 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	5.0 A
Dimensions	434 (W) x 171 (H) x 416 (D) mm 17.1" (W) x 6.7" (H) x 16.4" (D)
Weight	11.5 kg, 25.4 lbs

*Design and specifications are subject to change without notice.

*"Dolby", "Dolby Digital", "Pro Logic", and the double-D device are registered trademarks of Dolby Laboratories Licensing Corporation.

*DTS is registered trademarks of DTS Technology.

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