

DENON

A/V Surround Receiver

AVR-2802

DTS-ES Discrete 6.1 and Dolby Pro Logic II with Power Amps for 6 Channels

The AVR-2802 is equipped with 6 amplifiers of equal power, one for each channel, in a discrete configuration for total accuracy when reproducing sound from demanding DTS-ES Discrete 6.1, Dolby Digital, DVD-Audio, and SACD sources. The Dolby Pro Logic II feature lets you hear 2-channel stereo sources in realistic 5.1-channel surround sound. For multi-room versatility, the AVR-2802's Multi Source Tuning lets you enjoy audio, for instance, in one room while another program source is playing in the main room.



Personal Memory Plus

■ Fully Discrete, Equal Power Six Amplifier Channels

Front	90 W + 90 W	(8 ohms, 20Hz - 20kHz, 0.05% THD)
Center	90 W	(8 ohms, 20Hz - 20kHz, 0.05% THD)
Surround	90 W + 90 W	(8 ohms, 20Hz - 20kHz, 0.05% THD)
Surround Back....	90 W	(8 ohms, 20Hz - 20kHz, 0.05% THD)

All six power amplifier channels feature discrete power output devices, and all six amplifier channels provide equal power with lowest distortion. Each channel is rated at 90 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.

■ Single-Channel Surround Back Power AMP for 6.1 Surround and 2-channel Pre-output for 7.1 Surround

The AVR-2802 is equipped with a total of 6 power amps including one for the Surround Back speaker to give you more clearly defined sound localization at the rear for 6.1-channel surround sources such as DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, Dolby Digital EX, and DTS-ES NEO:6. The AVR-2802 also provides you with 2 PRE OUT terminals for the Surround Back channels, allowing for the ultimate home theater experience in amazing 7.1-channel Surround, when a second power amplifier is added.

■ High Power Custom Transistor

When temperatures rise or fall inside the unit, bias current values supplied to the power transistor tend to fluctuate, causing sound quality to deteriorate. The high power custom transistor used in the AVR-2802 ensures that the bias current is constantly uniform so that the sound you hear is of consistently stable, high quality.

■ High-quality DSP

A high-quality 24-bit fixed point DSP processor has been used in the DSP processor, placing the AVR-2802 at a higher rank than other models of this class in its ability to accurately decode and reproduce the superior quality of DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS NEO:6, Dolby Digital, and Dolby Pro Logic II.

■ Featuring DTS-ES Discrete 6.1 Decoding

The AVR-2802 is equipped with the DTS-ES (true discrete) 6.1 decoder, developed by DTS to provide dramatically improved surround sound panoramic reproduction and superior surround sound localization.

■ Supports DTS-ES Matrix 6.1 Decoding

■ Supports DTS NEO:6 Surround Decoding

■ Featuring Dolby Pro Logic II Decoding

Enjoy 2-channel stereo recordings in stunning 5.1-channel surround playback. The Dolby Pro Logic II decoder reproduces dynamic 5.1-channel surround sound not only from normal 5.1-channel DVD but from 2-channel sources such as videos and CDs, too. Dolby Pro Logic II uses matrix decoding technology that has been dramatically improved over Pro Logic. With Pro Logic II, for instance, the Surround (Rear) channels are in stereo (only mono with Pro Logic) and playback covers the full frequency range (only up to 7 kHz with Pro Logic). These improvements let you enjoy a wide variety of 2-channel sources with the exciting effects of 5.1-channel surround sound. In Dolby Pro Logic II, there is a Movie mode (*) that creates a sound space suitable for movies, a Music mode (*) that does the same for music, and a Pro Logic emulation feature that reproduces sound effects in the way that conventional Pro Logic does.

■ Dolby Digital Decoding

■ 5-CH/6-CH Stereo Mode

Denon's popular 5-CH/6-CH 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 five, or six, speakers. This 5-CH/6-CH Stereo mode was originally developed by DENON to enhance music lovers' enjoyment of home theater ambience.

■ 96 kHz, 24-bit Audio D/A Converters

Adjustable Cross-Over Switching

The AVR-2802 supports subwoofer cross-over switching with a choice of 3 cross-over frequencies: 80, 100, and 120. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

Multi Source Function

The AVR-2802 provides a Multi OUT terminal. The Multi Source function lets you enjoy one program source in a second room, or area, while another source is playing in the main room.

High-quality Component Video In/Out Terminals

The AVR-2802's Component Video terminals allow you to connect, and switch, up to 2 sources utilizing these high resolution video outputs. These terminals are especially useful if your display device has only one set of Component Video inputs.

Wide-Range Play Capability for DVD-Audio or SACD

6-Channel Input For DVD-Audio or SACD

Front (L,R) A/B Speaker Switching

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-2802 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 Learning Function for non-DENON components

Frequency Synthesis Tuning

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

Other Features

- Cinema Equalizer
- "S" and Composite Video Switching
- Tone Control

Input/Output Terminals For Every A/V System

Audio Inputs

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

Audio Outputs

- 8 Sets Analog PRE Output FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER SURROUND BACK L/R
- 3 Sets Analog REC Output VCR-1, VCR-2/V.AUX, CDR/TAPE
- 1 Set Analog Multi Zone Output..... L/R
- 1 Set Digital (Optical) Output OPTICAL x 1

Video Inputs

- 2 Sets Component Video Input DVD, TV/DBS
- 5 Sets S-Video Input DVD, VDP, TV/DBS, VCR-1, VCR-2/V.AUX
- 5 Sets Composite Input DVD, VDP, TV/DBS, VCR-1, VCR-2/V.AUX

Video Outputs

- 1 Set Component Video Output MONITOR
- 3 Sets S-Video Output VCR-1, VCR-2/V.AUX, MONITOR
- 3 Sets Composite Output VCR-1, VCR-2/V.AUX, MONITOR

Specifications

Power Amplifier Section

Rated output	*THD figures are power amp stage values.	
Front.....	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	135 W + 135 W	(6 ohms, 1 kHz, 0.7 % THD)
Center.....	90 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	135 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround.....	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	135 W + 135 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround Back.....	90 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	135 W	(6 ohms, 1 kHz, 0.7 % THD)

Preamplifier Section

Input sensitivity/Impedance	
PHONO(MM).....	2.5 mV/47 kohms
CD, DVD, VDP, TV/DBS, VCR-1, VCR-2/V.AUX, CDR/TAPE	200 mV/47 kohms
Output level/Load Impedance	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK SUBWOOFER.....	1.2 V/10 kohms
VCR-1, VCR-2/V.AUX, CDR/TAPE, MULTI ZONE L/R.....	200 mV/47 kohms
Frequency response.....	10 Hz - 100 kHz (+1, -3 dB)
Signal-to-noise ratio	102 dB
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	87.5 - 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.....	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



(1) Note on Movie mode:
On DENON A/V receivers, this Movie mode is displayed as "MODE CINEMA".

*Design and specifications are subject to change without notice.
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"DTS", "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater System, Inc.

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