

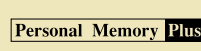
A/V Surround Receiver

DENON**AVR-3801****High Power, 7 Channels, and Full Support for DTS-ES and Multi-zone Set-up**

The AVR-3801 is a high-performance A/V surround receiver supporting DTS-ES with 105 watts of power with equal response to each of 7 channels. A 32-bit floating point DSP forms the heart of surround playback, performing high-speed processing on a level normally found in higher-end A/V components. DENON has harnessed its world-renowned audio technology to fully support DTS-ES, one of the features of which is to produce a sound that envelops the listener and moves in all directions.

The AVR-3801 also provides a multi-zone function that lets you enjoy a different entertainment source in another room while other people are using the AVR-3801 in the main room.

This versatile, easy-to-operate A/V receiver with superior sound quality could well be the component that meets your home entertainment requirements.

**■ Fully Discrete, Equal Power Seven Amplifier Channels**

Front	105 W + 105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Center	105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround	105 W + 105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround back ...	105 W + 105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)

The AVR-3801 features an equal power 7-channel amplifier section, with identical amplifier design on all 7 channels, with high current discrete output devices on all channels. Each of the 7 amplifier channels is rated at 105 watts, into 8 ohms, from 20 Hz - 20 kHz with no more than 0.05% THD.

**■ DDSC-Digital, for High-quality Sound Reproduction**

Featuring the Analog Devices SHARC 32-bit floating point DSP processor, DENON's DDSC-D circuitry faithfully recreates all the nuances of the original performance. Compared to ordinary 24-bit fixed point DSP processors, the SHARC 32-bit floating point DSP processor features greatly increased computational dynamic range for superior reproduction of stereo and multi-channel digital program sources.

■ DENON's latest surround technology faithfully recreates the surround sound produced at the dubbing stage.**1. DTS (Digital Theater System)****1) Featuring DTS-ES Extended Surround Discrete 6.1 Decoding**

The AVR-3801 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.

Like DTS 5.1-channel sound, the sound from the Surround Back channel of DTS-ES is also provided in a discrete configuration. The addition of a Surround Back channel to the 5.1-channel sound enables more faithful reproduction of the sound originally designed by film and music producers.

When a 6.1-channel DTS-ES discrete recording is played, the AVR-3801 automatically detects the signal and plays the source in 6.1 discrete mode.

2) Supports DTS-ES Extended Surround Matrix 6.1 Decoding

ES Matrix processing, developed by DTS, recreates the original 6.1 channel soundfield by extracting the Surround Back information from the encoded Surround Left and Surround Right channels, and is superior to generic "logic" decoding as the ES Matrix function utilizes the professional DTS ES decoding algorithm as found in DTS ES-equipped movie theaters.

3) DTS Neo:6 Surround Decoding

Featuring the newest DTS matrix processing technology, the DTS Neo:6 function provides up to 6.1 channel surround sound from conventional stereo sources, and can be used with virtually any 2 channel stereo source, analog or digital, such as CD, tape, FM, TV, stereo VCR, etc. Two modes are provided: Neo:6 Cinema is optimized for surround encoded stereo movie soundtracks, while Neo:6 Music mode is optimized for superior surround sound with stereo music sources.

2. Dolby Digital Decoding

In addition to Dolby Digital 5.1 decoding, the AVR-3801 also features a 6.1 Matrix mode, which provides 6.1 channel decoding from 6.1 channel encoded Dolby Digital sources.

3. Widescreen 7.1 Channel Playback of Conventional Sources - A Denon Original Technology

Denon's new Widescreen 7.1 function provides thrilling 7 speakers (plus subwoofer) reproduction of conventional stereo, matrix encoded, and discrete 5.1 program sources. This proprietary Denon DSP function provides full panoramic surround presentation, utilizing the three front loudspeakers, the two surround loudspeakers, and if configured, the surround back loudspeakers. Enjoy total 360 degree surround immersion, with movie soundtracks and your favorite musical performances also.

■ 96 kHz, 24-bit Audio D/A Converters

■ Wide-Range Play Capability for DVD-Audio or SACD

■ Surround A/B Speaker Switching

■ 8-Channel Input For DVD-Audio or SACD

■ Separate Current Supplies for Circuits

The AVR-3801 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, and video, 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 huge 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-3801 boasts high output power of 105 W for each of the 7 channels.

■ Support for Multi Zone Configurations

The AVR-3801 provides a Multi Zone Output function and a Select function that let you output different sources to multiple zones. Sources can be selected for output to up to 1 additional zone, in addition to the main room. Multi-room Zone can have variable pre-amp output.

The AVR-3801's Power Amplifier Assign function lets you assign the 2 Surround Back (SB L/R) amplifier channels to instead drive the Multi-room Zone powered speaker outputs, with 105 Watts per channel power output capability, while still providing 5 full amplifier channels to drive the main and surround speakers in the home theater room.

■ Easy Operation with Programmable Remote Controller

• Dot Matrix LCD (10 characters)

Since the LC display on the remote controller is a dot matrix type, the characters are easier to read, and up to 10 characters can be displayed at any one time.

• System Call

System Call function to execute up to 29 successive pre-assigned commands at the single touch of a button.

• Preset Memory (Over 100 Built-in Codes)

Since the remote controller is preprogrammed with more than 100 remote control codes, you can use the AVR-3801's remote controller to operate not only DENON equipment but components made by other manufacturers as well. (Some components may not be supported by Preset Memory.)

• Back light

■ Frequency Synthesis Tuning

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

■ Other Features

- Component Video Switching (2 inputs, 1 output)
- Music Surround Modes Including 7/5-Channel Stereo

■ 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 8-ch Analog EXT. Input	FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
3 Sets Digital (Optical) Input	OPTICAL X 3
1 Set Digital (Coaxial) Input	COAXIAL

Audio Outputs

8-ch Analog PRE Output	FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
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

Video Inputs

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

Video Outputs

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

Specifications

■ Power Amplifier Section

Rated output	*THD figures are power amp stage values.	
Front	105 W + 105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	140 W + 140 W	(6 ohms, 1kHz, 0.7 % THD)
Center	105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	140 W	(6 ohms, 1kHz, 0.7 % THD)
Surround.....	105 W + 105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	140 W + 140 W	(6 ohms, 1kHz, 0.7 % THD)
Surround back.....	105 W + 105 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	140 W + 140 W	(6 ohms, 1kHz, 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	
FRONT L/R, CENTER, SURROUND L/R,	
SURROUND BACK.....	200 mV/47 kohms
SUBWOOFER.....	200 mV/15 kohms
Output level/Load impedance	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R,	
SUBWOOFER.....	1.2 V/10 kohms
VCR-1 VCR-2/V-AUX,	
CDR/TAPE	200 mV/47 kohms
Frequency response.....	10 Hz - 100 kHz; +0, -3 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.....	7.0 A
Dimensions.....	434 (W) x 171 (H) x 416 (D) mm
	17.1" (W) x 6.7"(H) x 16.4"(D)
Weight	17.0 kg, 37.5 lbs



*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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