

A/V Surround Receiver

DENON

AVR-4802

**World's First 7-channel A/V Surround Receiver with DTS-ES Discrete 6.1 + THX Post Processing**

The AVR-4802 is the first 7-channel A/V surround receiver in the world to offer both DTS-ES Discrete 6.1 and THX Post Processing as well as high-quality DTS 96/24 5.1 decoding for DVD-Video in a single unit. In another world's first, the AVR-4802 lets you enjoy 96/24 PCM, and Dolby Digital 2-channel sources in Dolby Pro Logic II mode or DTS NEO:6 mode. Now, you can truly surround yourself with multi-channel sound in the mode you like best. The AVR-4802 owes much of its chassis design to its more technologically advanced, critically acclaimed sibling, the AVR-5800. This high-end approach virtually eliminates the mutual interference from the various circuits to ensure that you experience all the delicate nuances of pure audio sound, as well as the clearest and most dynamic realism that is Denon home theater entertainment.

**■ THX Ultra Certified 7-channel High Power Amplifier**

Front ..... 125 W + 125 W (8 ohms, 20Hz - 20kHz, 0.05 % THD)  
 Center ..... 125 W (8 ohms, 20Hz - 20kHz, 0.05 % THD)  
 Surround ..... 125 W + 125 W (8 ohms, 20Hz - 20kHz, 0.05 % THD)  
 Surround back. 125 W + 125 W (8 ohms, 20Hz - 20kHz, 0.05 % THD)

The AVR-4802 proudly bears the THX Ultra logo, certifying that it satisfies the strict standards of Lucasfilm, Inc., governing performance, features, sound quality, power, stability into low-impedance speaker loads (3.2 ohms and higher), and ease of operation.

**■ High-quality Pure Audio Chassis Construction**

Unwanted vibration is minimized by placing the power transformer near the center of the unit, the digital circuitry beneath the center, and the power amp circuits on the left and right sides. By also separating the analog circuit and video circuit sections, mutual interference among all the circuits is eliminated. This chassis design is well suited to the faithful reproduction of all types of sources, from the delicate purity of 2-channel stereo music recordings to the high-quality multi-channel soundtracks of DVD-Audio and the dynamic realism of sound and picture signals from DVD-Video programs.

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

DDSC-Digital is a circuit configuration specially designed by DENON in which all the elements of the surround processor are optimized by the use of selected high performance discrete elements, including separate A/D and D/A conversion, with sophisticated dual DSP surround decoding.

**1. 24-bit Analog To Digital Conversion****2. Analog Devices SHARC Dual 32-bit Floating Point DSPs****3. 24-bit, 96 kHz D/A Converters****■ DENON's latest surround technology faithfully recreates the complex sound effects produced at the dubbing stage.****1. World's first DTS-ES Discrete 6.1 + THX Post Processing**

By adding THX Post Processing to the localized sound and spatial expression of DTS-ES Discrete 6.1, your listening room is almost completely transformed into a full-featured cinema.

**2. DTS-ES Matrix 6.1 decoding****3. DTS NEO:6 decoding**

DTS NEO:6 lets you enjoy 2-channel analog, PCM, and Dolby Digital 2-channel sources in full 6.1-channel surround sound.

**4. Dolby Digital decoding****5. Dolby Pro Logic II decoding**

With the AVR-4802, you can use Dolby Pro Logic II to do more than just enjoy your 2-channel analog, PCM, and Dolby Digital 2-channel sources in surround sound ambiance. For the first time in the world, you can also add the soundfield effects of THX Post Processing to Dolby Pro Logic II in Movie mode (\*) to brilliantly enhance the excitement of 2-channel A/V sources.

**6. THX Surround EX decoding****■ World's first DTS 96/24 5.1 Decoding for DVD-Video**

High-quality 96-kHz, 24-bit (96/24) sound playback from ordinary DVD-Video recordings is limited to only two channels and there are also limitations on the picture. DVD-Video recorded in DTS 96/24, however, allows high-quality 5.1-channel sound playback in full-quality, full-motion video. DTS 96/24 lets you enjoy both digital output and video output from your existing DVD player. Denon's AVR-4802 A/V receiver is the first in the world to come equipped with a DTS 96/24 decoder.

**■ AL 24 Processing**

The AVR-4802 includes Denon's renowned 24-bit ALPHA processing technology that reproduces digital signals in a waveform with the smoothness of analog signals. This technology thoroughly suppresses annoying quantization distortion and faithfully reproduces the delicate musical details of low-level signals. AL 24 processing works in 2-channel Stereo, Direct, Pure Direct modes.

**■ Pure Direct Mode, to Deliver Pure Audio Quality**

In addition to surround sound playback, the AVR-4802 lets you enjoy pure 2-channel stereo sound as well through its Pure Direct mode. In Pure Direct Mode, while listening to digital sources, power to the video circuitry and the front panel display is turned off, and with analog source inputs, power to the digital circuitry is also automatically turned off.

**■ Digital-to-Analog Recording**

The AVR-4802 lets you make analog recordings from digital signal sources.

**■ Adjustable Cross-Over Switching**

The AVR-4802 supports subwoofer cross-over switching with a choice of 5 cross-over frequencies: 40, 60, 80, 100, and 120. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

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

**■ 8-Channel Input For DVD-Audio or SACD**

**■ Surround A/B Speaker Switching**

**■ Support for Multi Zone Configurations**

With the AVR-4802's Multi Zone Output and Select functions, you can output different program sources to multiple zones. Sources can be selected for output to 1 additional zone besides the main room (or home theater). This zone, Multiroom Zone 1, can have variable pre-amp output along with 1 set audio(L/R) feed. In addition, the remote controller can be used to select the source and adjust the volume.

With the AVR-4802's Power Amplifier Assign function, you can assign the 2 Surround Back amplifier channels to instead drive 2 powered speakers in Multiroom Zone 2 with 125 watts per channel while still providing full 5-channel output to the main room.

**■ Personal Memory Plus**

**■ On Screen Display**

**■ RS-232C Port (Third-party system controls only)**

**■ Includes RC-8000 remote controller with large LCD touch panel**

The AVR-4802's RC-8000 remote controller lets you control not only the AVR-4802 but also other gear such as your TV and DVD player. You can even use it to control your home theater video screen and lights. If you find the RC-8000's infrared (IR) capabilities too limiting, you can purchase the optional RC-8001ST charger base station to switch to radio frequency (RF) transmission and control systems out of reach of the IR signals.

**■ Frequency Synthesis Tuning**

**• 40-station AM/FM Random Preset Memory Tuning**

**• Auto Preset Memory**

**■ Other Features**

**• Cinema Equalizer**

**• Music Surround Modes Including 7/5-Channel Stereo**

**• "S" and Composite Video Switching**

**• Component Video Switching, 50 MHz Bandwidth (3 inputs, 1 output)**

**• Tone Control**

**Input/Output Terminals For Every A/V System**

**■ Audio Inputs**

- 12 Sets Analog Input ..... PHONO, CD, TUNER, DVD, VDP, TV, DBS/SAT, VCR-1, VCR-2, VCR-3, V.AUX, CDR/TAPE
- 1 Set 8-ch Analog EXT. Input..... FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
- 5 Sets Digital (Optical) Input ..... OPTICAL x 5
- 3 Sets Digital (Coaxial) Input ..... COAXIAL x 3

**■ Audio Outputs**

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

**■ Video Inputs**

- 3 Sets Component Video Input..... DVD, TV, DBS/SAT
- 8 Sets Composite Input ..... DVD, VDP, TV, DBS/SAT, VCR-1, VCR-2, VCR-3, V.AUX
- 8 Sets S-Video Input ..... DVD, VDP, TV, DBS/SAT, VCR-1, VCR-2, VCR-3, V.AUX

**■ Video Outputs**

- 1 Set Component Video Output ..... MONITOR
- 5 Sets Composite Output ..... VCR-1, VCR-2, VCR-3, MONITOR-1, MONITOR-2
- 5 Sets S-Video Output ..... VCR-1, VCR-2, VCR-3, MONITOR-1, MONITOR-2

**Specifications**

**■ Power Amplifier Section**

Rated output	*THD figures are power amp stage values.	
Front .....	125 W + 125 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	150 W + 150 W	(6 ohms, 20Hz - 20kHz, 0.05 % THD)
Center .....	125 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	150 W	(6 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround.....	125 W + 125 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	150 W + 150 W	(6 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround back.....	125 W + 125 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
	150 W + 150 W	(6 ohms, 20Hz - 20kHz, 0.05 % THD)

**■ Preamplifier Section**

Input sensitivity/impedance	
PHONO(MM).....	2.5 mV/47 kohms
CD, DVD, VDP, TV, DBS/SAT, VCR-1, VCR-2, VCR-3, V.AUX, CDR/TAPE	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK	
SUBWOOFER.....	200 mV/47 kohms
Output level/Load impedance	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER	
MULTI ZONE L/R.....	1.2 V/10 kohms
VCR-1, VCR-2, VCR-3, V.AUX, CDR/TAPE .....	200 mV/47 kohms
Frequency response.....	10 Hz - 100 kHz; +0, -3 dB (DIRECT MODE)
Signal-to-noise ratio .....	105 dB (DIRECT MODE)
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, 50 Hz
Power consumption.....	10.5 A
Dimensions.....	434 (W) x 179 (H) x 485 (D) mm
	17.1" (W) x 7.0" (H) x 19.1" (D)
Weight .....	20.5 kg, 45.2 lbs



\*Trap door opened.

(\*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 96/24", "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater System, Inc.

DENON ELECTRONICS  
DIVISION OF DENON CORPORATION (USA)  
19 CHAPIN ROAD, P.O. BOX 867, PINE BROOK, NJ 07058-9777 USA  
TEL: 973-396-0810 www.denon.com

DENON CANADA INC.  
17 DENISON STREET, MARKHAM ONTARIO, CANADA L3R 1B5  
TEL: 905-475-4085 www.denon.ca

NIPPON COLUMBIA CO., LTD.  
3-16-11, YUSHIMA, BUNKYO-KU, TOKYO 113-0034, JAPAN