

A/V Surround Receiver

DENON

## AVR-4802R

## THX Ultra2 Certified 7-channel A/V Surround Receiver

The AVR-4802R is a new and enhanced version of the AVR-4802, featuring THX Ultra2 certification and processing, as well as the full suite of technologies from DTS-ES, including the latest high-quality DTS 96/24 5.1 decoding for DVD-Video. Adding to its decoding flexibility, the AVR-4802R 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 multichannel sound in the mode you like best. The AVR-4802R owes much of its chassis design to its more technologically advanced, critically acclaimed sibling, the AVR-5803. 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 Ultra2 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-4802R proudly bears the THX Ultra2 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 multichannel soundtracks of DVD-Audio, Super Audio CD 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.

DTS-ES Discrete/ DTS-ES Matrix 6.1/ DTS Neo:6/ DTS 96/24/ Dolby Digital/ Dolby Digital EX/ Dolby Pro Logic II/ THX Surround EX/ THX Cinema/ THX Ultra2 Cinema and Music

#### 1. THX Post-processing available for all decoded formats

#### 2. 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.

#### 3. Dolby Pro Logic II Decoding

With the AVR-4802R, 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 (\*1) to brilliantly enhance the excitement of 2-channel A/V sources.

#### 4. 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.

#### ■ AL 24 Processing

The AVR-4802R 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.

**■ Audio Delay Function**

The AVR-4802R features an Audio Delay function, that corrects for slight lags between sound and picture (Lip Synch) that can occur when a video signal is processed, such as in a Progressive Scan DVD Player or outboard video processor.

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

In addition to surround sound playback, the AVR-4802R 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.

**■ Adjustable Cross-Over Switching**

The AVR-4802R 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.

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

**■ Surround A/B Speaker Switching**

**■ Support for Multi Zone Configurations**

With the AVR-4802R'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-4802R's Power Amplifier Assign function, you can assign the 2 Surround Back amplifier channels to instead drive 2 speakers in Multiroom Zone 1 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)**

**■ Newly designed pre-programmed/learning remote controller**

The AVR-4802R comes with a newly-developed remote controller with the most frequently used keys layed out in the center and an easy-togrip size and shape. It also features a small liquid crystal display that lets you quickly identify which devices you are controlling at a glance

- Preset Memory
- Learning Functions
- System Call (Macros)
- All keys backlit
- Supports independent/discrete Power On/Off Commands

**■ 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
- 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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