

The AVR-2807 is Denon's latest addition of versatile A/V Receivers, which incorporate all current surround formats and enhanced installation flexibility, all with great simplicity of setup and operation.



Audio section

■ Full discrete 7-channel high power amplifier

Front	110 W + 110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Center	110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround	110 W + 110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround back	110 W + 110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)

■ Latest 32-bit floating point DSP for the decoder

- 24-bit/192-kHz D/A converter
- 96kHz A/D converter

■ 'AL24 Processing Plus,' for high sound quality

■ Digital interface receiver supporting 24-bit/192-kHz signals

■ Large-output power amp section and power supply configuration, for stable high-power output

■ Stable power supply for high-quality sound and picture playback

■ Pure Direct mode, for the pure enjoyment of music in high-quality sound

■ Supports the most advanced surround playback formats

- Dolby Digital EX • Dolby Digital • Dolby Pro Logic IIx
- DTS-ES • DTS 96/24 • DTS Neo:6 • DTS

■ Configurable surround back amplifiers

- Multi-zone system: a 5.1-channel theater in the main room and a stereo environment in a second room.
- "Bi-amp" system: Front (L/R) channels are bi-wired in a 5.1-channel theater to improve playback quality in the front for enhanced listening enjoyment.

Video section

■ HDMI digital video interface supporting high-quality video of 1080p (*1)

The AVR-2807 has HDMI digital video interface terminals (2 inputs and 1 output) that can be switched for high-resolution 1080p video signal transmission. These HDMI terminals also support digital input of multi-channel audio signals.

*1) Version 1.1 compliant. Since HDCP is also supported, video cannot be viewed on a non-HDCP display connected to the AVR-2807; please connect a HDCP-compliant display when viewing video material.

■ Video Up/Down conversion capable of output to HDMI

The AVR-2807 includes a video up/down conversion function that allows the unit to be connected to the video monitor via a single cable regardless of the video input signal's format as follows:

- 1) Composite video signals are converted to HDMI (*2), component video, & S-video;
- 2) S-video signals are converted to HDMI (*2), component video, & composite video;
- 3) Component video signals are converted to HDMI (*2), composite video (*3), & S-video (*3).

*2. I/P conversion from 480i/576i to 480p/576p

*3. Down-conversion from component video to composite or S-video applies only to 480i input signals.

■ High-speed, high-accuracy 12-bit/216-MHz Video DAC

■ I/P conversion from 480i to 480p (When a 480i/576i signal is input from a Composite Video, S-Video, or Component terminal, it should be output from the HDMI terminal.)

■ 3 Sets of Component Video Inputs

■ High Definition Quality Video Switching

■ Composite and S-video signal processing

The AVR-2807 uses a time base corrector (TBC) in converting composite video & S-video signals to component video to suppress jitter in the video signal during playback.

Connectivity/ Expandability

■ Variable subwoofer crossover switching

(40/60/80/90/100/110/120/150/200/250Hz)

■ ASD-1R iPod® Control Dock (option): Supports iPod playback when connected to the AVR-2807

iPod (*4) playback can be enjoyed through the AVR-2807 when the ASD-1R, Denon's original iPod Control Dock (sold separately), is connected to the dedicated control terminal of the AVR-2807. The iPod can also be controlled via the remote controller supplied with the AVR-2807.

*4) Supports 3rd-generation and later iPods equipped with a Dock connector. Some functions may not work depending on the generation of the iPod and the version of the software..

■ New Auto Set-up and Room EQ, featuring MultEQ from Audyssey, for overall listening area support using supplied microphone

■ Room EQ Memory



Black version is also available.

AVR-2807

- Assignable Room EQ
- Auto Surround Back Channels ON function, for auto-detection of supporting sources
- Auto Surround mode
The AVR-2807 can automatically store the surround mode for any of three inputs signals: (1) Analog and PCM 2 channel, (2) Bit stream 2-channel (Dolby Digital, DTS) and (3) Bit stream multi-channel. If the type of input signal changes, the most appropriate surround mode is automatically selected for the signal.
- Audio Delay function (max. 6 frames or 200 msec)
The Audio Delay function corrects slight lags between sound and picture that can occur when a video signal is processed, such as in a Progressive Scan DVD player or outboard video processor.
- 3 User Mode Buttons
- Night Mode for not disturbing others
- XM Satellite Radio Ready with optional 'Connect and Play' antenna*
*Subscription to XM services also required.
- 8ch Analog EXT IN terminal

- A/B switching between front speakers
- ### Other Functions
- RS-232C terminal, for external 3rd party control systems and possible future upgrades
 - Remote IN/OUT ports
 - +12 V Trigger Output x 2 (Assignable)
 - Muting level settings (∞/-40dB/-20dB)
 - Personal Memory Plus
 - Audio Level Memory, for correcting different signal levels from each input device
 - Volume Level Limiter, for limiting the maximum volume value
 - Power-ON Volume Level Memory
 - On-screen Display
 - Function Rename
 - Setup Lock, for locking the system setup
 - Pre-programmed learning remote controller with GLO-key
 - Detachable AC Power Cord
 - Frequency Synthesis Tuning
 - 56-Station AM/FM Random Preset Memory Tuning
 - Auto Preset Memory

Input/Output Terminals For Every A/V System

Audio Inputs

- 11 Sets Analog Inputs
PHONO, CD, (TUNER), DVD, VDP, TV, DBS, VCR-1, VCR-2, CDR/TAPE, V.AUX (FRONT)
- 1 Set 8-ch Analog EXT. Input
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
- 7 Sets Digital Input
OPTICAL x 5 (including FRONT x 1) (Assignable)
COAXIAL x 2 (Assignable)

Audio Outputs

- 1 Set 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, CDR/TAPE
- 1 Set Analog Multi Zone LINE Output
ZONE2 L/R
- 2 Digital Output
OPTICAL x 2

Video Inputs

- 3 Sets Component Video Input
VIDEO-1, VIDEO-2, VIDEO-3
- 7 Sets S-Video Input
DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX (FRONT)
- 7 Sets Composite Input
DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX (FRONT)

Video Outputs

- 2 Sets Component Video Output
MONITOR1, MONITOR2
- 4 Sets S-Video Output
VCR-1, VCR-2, ZONE2, MONITOR
- 3 Sets Composite Output
VCR-1, VCR-2, ZONE2, MONITOR

Specifications

Power Amplifier Section

Rated output *THD figures are power amp stage values.

Front	110 W + 110 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
Center	110 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
Surround	110 W + 110 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
Surround Back	110 W + 110 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)

Preamplifier Section

Analog

Input sensitivity / impedance	200mV/47kohms
Frequency response	10Hz-100kHz (+0, -3dB direct mode)
S/N	102dB (direct mode)
Rated output	1.2V

Digital

D/A output	2.0V
Input sensitivity / impedance	2.5mV
RIAA deviation	+/-1dB (20Hz to 20kHz)
Rated output	150mV

Video Section

Frequency response	5Hz-10MHz (+0, -3dB)
Composite video/S-video	5Hz-100MHz (+0, -3dB)
Component video	5Hz-100MHz (+0, -3dB)

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	AC120V, 60Hz
Power consumption	6.0 A (1W max. at standby mode)
Dimensions	434 (W) x 171 (H) x 429 (D) mm 17.1" (W) x 6.7" (H) x 16.9" (D)

Weight

14.0 kg, 30 lbs 14oz



* Design and specifications are subject to change without notice.
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 * "DTS", "DTS-ES" and "NEO:6" are trademarks of Digital Theater System, Inc.
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 * NSV and Sub Alias Filter are registered trademarks of Analog Devices, Inc.
 * iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.