

DENON

NEW MODEL INFORMATION

AVR-97

Dolby Digital and DTS A/V Receiver



Outstanding surround sound an affordable price, with Dolby Digital and DTS decoding.

Featuring the latest in Dolby Digital and DTS decoding technology, the AVR-97 provides outstanding home theater surround sound performance. The heart of the AVR-97 is Denon's Dynamic Discrete Surround Circuit-Digital technology, incorporating high performance dual DSP chips and superior A/D and D/A conversion devices. This provides superb listening results, with virtually any home theater or music source. Prepared for the future, the AVR-97 features 6-Channel external input, for connection to future multi-channel surround formats. A high quality, discrete power output section provides a total system power of 500 watts. Full 24-bit, 96 kHz digital-to-analog D/A converters on all 6 channels provide transparent reproduction of multi-channel music and motion picture soundtracks with outstanding dynamic range and superb low level resolution. Outstanding surround sound an affordable price, with Dolby Digital and DTS decoding. The AVR-97's remote controller features an easy-to-use layout where most frequently used buttons are provided in different colors and shapes for easy recognition, even while keeping your eyes on the screen. The buttons also feature "Self-illuminated GLO-KEY" for easy operation in the dark.

■ Equal Power Discrete Power Amplifier

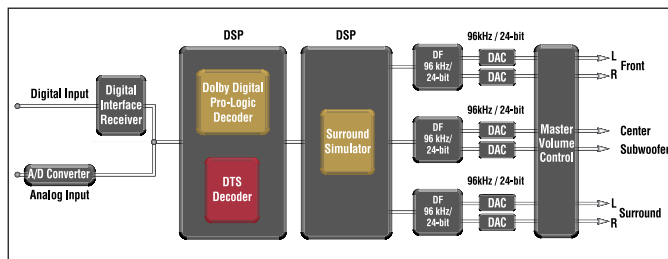
Front 100 W + 100 W (8 ohms, 1 kHz, 0.07 % THD)
 Center 100 W (8 ohms, 1 kHz, 0.07 % THD)
 Surround 100 W + 100 W (8 ohms, 1 kHz, 0.07 % THD)

All five power amplifier channels feature discrete power output devices, and all five amplifier channels provide equal power with lowest distortion. Each channel is rated at 100 watts, into 8 ohms, 1 kHz, with no more than 0.07% 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.



■ DDSC-Digital (Dynamic Discrete Surround Circuit-Digital)

Since surround signals are all processed in the digital domain, the AVR-97 is equipped with a newly-developed, sophisticated, high-performance dual DSP circuit for the Dolby Digital, Dolby Pro Logic, dts decoders, and Surround Simulator. The D/A converters feature high resolution designs for all the Front L/R, Center, Surround L/R, and Subwoofer channels. This combination of DSP and D/A converters works to bring out the tremendous potential of Dolby Digital and dts sound. In addition, high resolution A/D converters have been incorporated for the Dolby Pro Logic decoder. The high sound quality of New DDSC-Digital is due in part to the high-grade signal processing of the 24-bit, 96-kHz Digital Interface Receiver (DIR). The AVR-3300 not only allows digital signals input from DVD and other advanced media to pass directly to the DIR, it also processes them while preserving their integrity so that even the most delicate nuances of the music, reflecting the emotions of the artists, are passed unfettered to the dual digital signal processor (DSP).



Dynamic Discrete Surround Circuit-Digital Block Diagram

■ Dolby Digital

Dolby Digital and Dolby Pro Logic decoding functions are performed in the digital domain for excellent dynamic range and crystal clear reproduction.

■ DTS

Digital Theater Systems decoding provides thrilling movie and music multi-channel surround sound.

■ 96kHz, 24-bit Audio D/A Converters

■ 6-Channel External Input For Future Multi-Channel Formats

■ Separate Current Supplies for Circuits

The AVR-97 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, video, and 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 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-97 boasts high output power of 100 W for each of the 5 channels.

■ Stable Speaker Drive

In the AVR-97, the circuitry through which current flows to drive the speakers has been incorporated onto a single board between the rectifier circuit of the power source and the speaker terminals. A new phase correction circuit has also been adopted, eliminating the need for an output coil. Since this configuration allows the power transistor to drive the speakers directly, there is no loss of power to any of the channels. The sound that you hear is thus extremely stable as well as powerful.

■ Pre Outputs for System Upgrading

The pre-out terminals on the AVR-97 is offered for Front L/R, Center and Mono (Subwoofer) channels. A separate power amp can be connected to these terminals to upgrade your system.

■ 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-97 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 Programming Function for non-DENON components

*Design and specifications are subject to change without notice.

**"Dolby", "Dolby Digital", "Pro Logic", and the double-D device are registered trademarks of Dolby Laboratories Licensing Corporation.

*DTS is registered trademarks of DTS Technology.

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■ Frequency Synthesis Tuning

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

■ Other Features

- Cinema Equalizer
- Music Surround Modes Including 5-channel Stereo
- "S" and Composite Video Switching
- Front A/B Speaker Switching
Connect another pair of stereo speakers in another room.
- Tone Control
- 2 Switched AC Outlets

■ Input/Output Terminals For Every A/V System

● Audio Inputs

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

● Audio Outputs

- 4 Analog Pre Outputs FRONT L/R, CENTER, SUBWOOFER
- 3 Analog Rec Outputs VCR-1, VCR-2/V-AUX, MD/TAPE

● Video Inputs

- 5 S-Video Inputs DVD, VDP, TV/DBS, VCR-1,
VCR-2/V-AUX
- 5 Composite Inputs DVD, VDP, TV/DBS, VCR-1,
VCR-2/V-AUX

● Video Outputs

- 3 S-Video Outputs VCR-1, VCR-2/V-AUX, MONITOR
- 3 Composite Outputs VCR-1, VCR-2/V-AUX, MONITOR

Specifications

■ Power Amplifier Section

| | |
|----------------|---|
| Rated output | *THD figures are power amp stage values. |
| Front..... | 100 W + 100 W (8 ohms, 1 kHz, 0.07 % THD) |
| Center | 100 W (8 ohms, 1 kHz, 0.07 % THD) |
| Surround | 100 W + 100 W (8 ohms, 1 kHz, 0.07 % THD) |

■ Preamplifier Section

| | |
|---|--|
| Input sensitivity/Impedance | |
| PHONO(MM) | 2.5 mV/47 kohms |
| CD, DVD, VDP, TV/DBS, VCR-1, VCR-2/V-AUX, MD/TAPE, FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER | 200 mV/47 kohms |
| Output level/Load Impedance | |
| FRONT L/R, CENTER, SUBWOOFER | 1.2 V/10 kohms |
| VCR, MD/TAPE, MONITOR | 200 mV/47 kohms |
| 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 |

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