



Eminently Affordable, High-Quality Ambiance For Your Home Theater.

The AVR-87 is an A/V surround receiver that lets you enjoy Dolby Digital and dts surround sound with maximum ease. To ensure that all channels deliver an identical response—a vital requirement of both Dolby Digital and dts—the AVR-87 is equipped with fully discrete, equal power amplifiers. Sound effects linked with the action in a movie will thus move in the listening space around you and greatly heighten the sense of realism.

The remote controller that comes with the AVR-87 is equipped with an LCD that displays up to 10 characters of text. This lets you easily make settings for System Call and Preset Memory following the prompts.

■ Fully Discrete, Equal Response and Power of 75 W for Each Channel

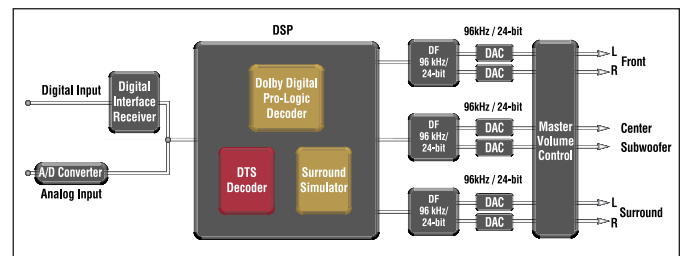
Front 90 W + 90 W (8 ohms, 1 kHz, 0.07% THD)
 Center 90 W (8 ohms, 1 kHz, 0.07% THD)
 Surround 90 W + 90 W (8 ohms, 1 kHz, 0.07% THD)

The AVR-87 uses a high-capacity power transformer in the power circuit to support not only stable reproduction of 5.1-channel Dolby Digital / dts sound sources but also high-quality pure audio recordings. The fully discrete configuration of the power amp section delivers equal power to the Front Left and Right, Center, and Surround (Rear) Left and Right speakers to ensure that they all respond at identical levels. During surround sound reproduction, the AVR-87 taps its powerful reserves of 75 W for each of the 5 channels to surround you with a refreshingly clean, realistic sound.



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

Since surround signals are all processed in the digital domain, the AVR-87 is equipped with a newly-developed, sophisticated, high-performance 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-87 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 digital signal processor (DSP).



Dynamic Discrete Surround Circuit-Digital Block Diagram

■ Affordable, High-Performance Dolby Digital and DTS

The AVR-87 gives you high-performance Dolby Digital and dts at a price you can afford. With a fully discrete configuration for each of the unit's five channels, the AVR-87's Dolby Digital and dts decoder recreates the sound space of a video program in real-life 3D perspective, with an exciting sense of motion that accompanies the images on the screen.

■ 96 kHz, 24-bit Audio D/A Converters

■ 6-Channel External Input, for Future Multi-Channel Formats

■ Separate Current Supplies for Circuits

The AVR-87 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-87 boasts high output power of 75 W for each of the 5 channels.

■ Stable Speaker Drive

In the AVR-87, 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.

■ Video Select Switch

■ All-channel Level Control

■ Binding Post Speaker Terminals for All Channels

■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V amplifiers, the AVR-87 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-87 to suit your own home theater and enhance operating ease. The adjustments are easy to make via a dialog format on the fluorescent display.

■ Personal Memory Plus, for Easy Operation

The AVR-87 includes the Personal Memory Plus function that automatically remembers the surround mode you last used for each program source, so that you do not need to select the mode again for that program.

■ Easy Operation with New 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 20 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-87'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.)

■ 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

● Front A/B Speaker Switching

Connect another pair of stereo speakers in another room.

● Operating Status at a Glance on Easy-to-Read FL Display

● 2 Switched AC Outlets

● Tone Control

■ Input/Output Terminals For Every A/V System

● Audio Inputs

2 Digital (Optical) Input OPTICAL x 2

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

● Video Outputs

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

Specifications

■ Power Amplifier Section

Rated output *THD figures are power amp stage values.

Front 75 W + 75 W (8 ohms, 20Hz - 20kHz, 0.05% THD)

Center 75 W (8 ohms, 20Hz - 20kHz, 0.05% THD)

Surround 75 W + 75 W (8 ohms, 20Hz - 20kHz, 0.05% 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 4.5 A

Dimensions 434 (W) x 171 (H) x 416 (D) mm

17.1" (W) x 6.7"(H) x 16.4"(D)

Weight 11.4 kg, 25.1 lbs

*Design and specifications are subject to change without notice.

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