

Dolby Digital and DTS A/V Receiver

**DENON****AVR-981****Outstanding surround sound, with Dolby Digital and DTS decoding**

Featuring the latest in Dolby Digital and DTS decoding technology, the AVR-981 provides outstanding home theater surround sound performance. At the heart of the AVR-981 is Denon's Dynamic Discrete Surround Circuit - Digital technology, incorporating high-performance DSP chip and advanced A/D and D/A converters. This configuration provides superior listening results with virtually any home theater or music source.

The AVR-981 also features 6-Channel external input, for connection to DVD-Audio and SACD formats. A high quality, discrete power output section provides a total system power of 675 watts. Full 24-bit, 96-kHz 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 with Dolby Digital and DTS decoding is finally possible at an affordable price.

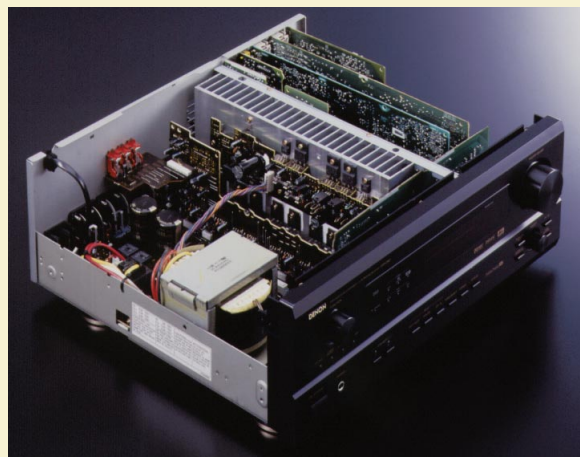
The AVR-981's remote controller features an easy-to-use layout where most frequently used buttons are provided in different colors and shapes for easy recognition while your eyes are focused on the screen. The buttons also employ Self-illuminated GLO-KEY technology for easy operation in the dark.



#### ■ Equal Power Discrete Power Amplifier

Front	135 W + 135 W (6 ohms, 1 kHz, 0.7 % THD)
Center	135 W (6 ohms, 1 kHz, 0.7 % THD)
Surround	135 W + 135 W (6 ohms, 1 kHz, 0.7 % THD)

All five power amplifier channels feature discrete power output devices, and all five amplifier channels provide equal power. Each channel is rated at 135 watts, into 8 ohms, from 1 kHz, with no more than 0.7 % 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-981 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-981 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).

#### ■ Dolby Digital and DTS Decoder

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

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

#### ■ Separate Current Supplies for Circuits

The AVR-981 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-981 boasts high output power of 135 W for each of the 5 channels.

### ■ Stable Speaker Drive

In the AVR-981, 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.

### ■ Front (L,R) A/B Speaker Switching

### ■ 96kHz, 24-bit Audio D/A Converters

### ■ 6-Channel External Input For DVD-Audio and SACD

### ■ Outputs for System Upgrading

(Front L/R, Center, Surround L/R, Subwoofer)

### ■ 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-981 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

### ■ 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
- Tone Control
- 2 Switched AC Outlets

### ■ Input/Output Terminals For Every A/V System

#### • Audio Inputs

3 Digital (Optical) Input .....	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, CDR/TAPE
6 Analog EXT. Inputs .....	FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER

#### • Audio Outputs

6 Analog Pre Outputs .....	FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
3 Analog Rec Outputs .....	VCR-1, VCR-2/V-AUX, CDR/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.....	135 W + 135 W (6 ohms, 1 kHz, 0.7 % THD)	
	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, 0.05 % THD)	
Center.....	135 W (6 ohms, 1 kHz, 0.7 % THD)	
	90 W (8 ohms, 20 Hz - 20 kHz, 0.05 % THD)	
Surround.....	135 W + 135 W (6 ohms, 1 kHz, 0.7 % THD)	
	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, 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, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER.....	200 mV/47 kohms
Output level/Load Impedance	
FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER.....	1.2 V/10 kohms
VCR-1, VCR-2/V.AUX, CDR/TAPE, .....	200 mV/47 kohms
Frequency response.....	10 Hz - 100 kHz (+1, -3 dB)
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 .....	87.50 - 107.90 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

\*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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