

# DENON

NEW MODEL INFORMATION

# AVR-1600

Dolby Digital A/V Receiver



## ***Dolby Digital with Fully-discrete 300 watt Amplifiers***

The AVR-1600 is equipped with a fully discrete configuration for each channel that supports not only Dolby Digital but lets you use the unit as a high-quality pure audio amplifier as well. The AVR-1600 also provides an external input terminal for a 6-channel to support the multi-channel format. With its rich array of input and output terminals, a Personal Memory Plus function that enhances ease of operation, and overall superior performance, the AVR-1600 gives you everything you need in a Dolby Digital A/V surround receiver at an affordable price.

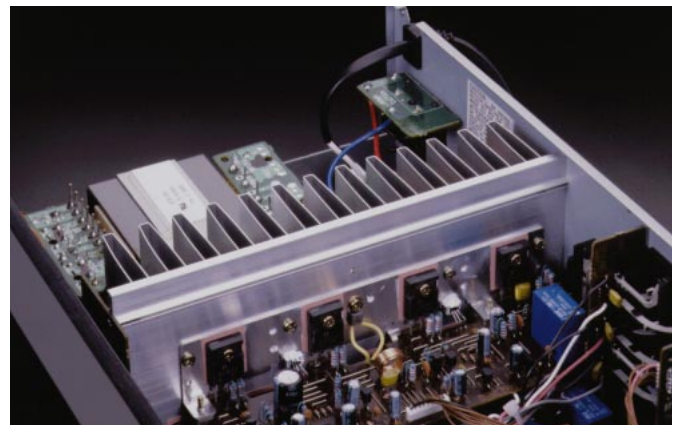
### ■ **Fully Discrete, Equal Response and Power of 60 W for Each Channel**

Front	60 W + 60 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Center	60 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround	60 W + 60 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)

The AVR-1600 uses a high-capacity power transformer in the power circuit to support not only stable reproduction of 5.1-channel Dolby Digital 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 Left and Right speakers to ensure that they all respond at identical levels. During surround sound reproduction, the AVR-1600 taps its powerful reserves of 60 W for each of the 5 channels to surround you with a refreshingly clean, realistic sound.

### ■ **High-Performance Dolby Digital**

The AVR-1600 gives you high-performance Dolby Digital at a price you can afford. With a fully discrete configuration for each of the unit's five channels, the AVR-1600's Dolby Digital 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.



## ■ 6-Channel External Input, for Multi-Channel Sound

The AVR-1600 provides an external terminal for a 6-channel to support 5.1-channel playback of dts, DVD-Audio, and other multi-channel sources. 5.1-channel audio sources recorded in the dts format can be enjoyed when a dts decoder is connected to the AVR-1600. You might just want to enjoy Dolby Digital programs at first, but the AVR-1600 offers you the ability to easily upgrade your system so that you can dive into the excitement of fully discrete 5.1-channel dts digital sources as well if you wish.

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

### ● Audio Inputs

1 Digital (Optical) Input.. OPTICAL  
1 Digital (Coaxial) Input.. COAXIAL  
7 Analog Inputs ..... PHONO, CD, TUNER, DVD/VDP,  
TV/DBS, VCR, 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  
2 Analog Rec Outputs... VCR, MD/TAPE

### ● Video Inputs

3 Composite Inputs ..... DVD/VDP, TV/DBS, VCR

### ● Video Outputs

2 Composite Outputs..... VCR, MONITOR

### ● Video Select Switch

This function lets you select video sources independently of the audio sources.

## ■ Pre Outputs for System Upgrading

The pre-out terminals on the AVR-1600 is offered for Front, Center and Mono (Subwoofer) channels. A separate power amp can be connected to these terminals to upgrade your system.

## ■ 11 Surround Playback Modes

The AVR-1600 is equipped with 11 surround modes to help you obtain the optimum effects for the program sources you are playing. The Dolby Pro Logic modes are Normal, Phantom, Wide, and 3-Channel; and the additional modes are 6-Channel EXT.IN, 5-Channel Stereo, Rock Arena, Jazz Club, Mono Movie, Video Game, and Matrix.



\*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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## ■ Personal Memory Plus, for Easy Operation

The AVR-1600 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.

## ■ Versatile Speaker Terminals

The Binding Posts are used for the Front L/R and Center speaker terminals.

## ■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V amplifiers, the AVR-1600 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-1600 to suit your own home theater and enhance operating ease. The adjustments are easy to make via a dialog format on the fluorescent display on the front panel.

## ■ Frequency Synthesis Tuning

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

## ■ Other Features

- Tone Control
- Two Switched AC Outlets
- All Channel Level Control

## Specifications

### ■ Power Amplifier Section

Rated output \*THD figures are power amp stage values.  
Front..... 60 W + 60 W (8 ohms, 20 Hz - 20 kHz, 0.08 % THD)  
Center..... 60 W (8 ohms, 20 Hz - 20 kHz, 0.08 % THD)  
Surround ..... 60 W + 60 W (8 ohms, 20 Hz - 20 kHz, 0.08 % THD)

### ■ Preamplifier Section

Input sensitivity/Impedance  
PHONO(MM)..... 2.5 mV/47 kohms  
CD, DVD/VDP, TV/DBS, VCR, 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)  
Signal-to noise ratio..... 92 dB (A-weighting)  
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 ..... 3.0 A  
Dimensions ..... 434 (W) x 161 (H) x 315 (D) mm  
17.1" (W) x 6.3" (H) x 12.4" (D)  
Weight..... 7.0 kg, 15.4 lbs

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