

A/V Home Theater Receiver with 3D Video Connectivity

The AVR-391 sets new standards for performance and affordability, and is packed with great features that assures a superb surround sound experience. The latest audio decoders, including Dolby TrueHD and DTS-HD Master Audio are included, and there's even Dolby Pro Logic IIx, which for the first time provides front channel height effects, for a dramatically expanded front soundstage. It's also equipped with the latest HDMI 1.4a technology, which for the first time provides for 3D pass-through (Broadcast and Blu-ray) capability, delivering thrilling 3D high definition viewing with 3D-compatible HDTVs. With 4 HDMI inputs, the AVR-391 can easily accommodate a wide variety of HD sources, including cable or satellite set-top box, HD game console, Blu-ray disc player, even an HD camcorder. The remote features discrete input selector buttons for quick source selection and includes dedicated buttons for iPod control with an optional Denon iPod dock.



Features

New Features

- Featuring 3D pass-through technology
- Supports HDMI 1.4a with 3D, Deep Color, "x.v.Color"
- 4 x HDMI in / 1 x HDMI out (Repeater)
- Stereo Mini Jack on front panel lets you connect any portable audio player

State-of-the-art Denon Solutions for Maximizing Content Quality

- Fully discrete, identical quality and power for all 5 channels (110 W x 5 ch)
- Stable power supply for high-quality sound and picture playback
- High definition audio support, Dolby TrueHD and DTS-HD Master Audio
- Minimum Signal Path for clear audio and video signal
- Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance
- Compressed Audio Restorer to enhance digital music files

Connectivity & Future-ready Expandability

- Dock connectivity for iPod* and network streaming

Ease-of-Use

- Comes with simple, easy-to-use remote control handset
- Three Quick Select buttons
- Sleep timer function
- Auto surround mode
- Audio level memory, capable of correcting different signal levels for each input device

Others

- Audio Delay function (max. 6 frames or 200 mSec)
- Muting level settings (Full/-40dB/-20dB)
- Variable subwoofer crossover switching
- Lower power consumption at stand-by 0.5 W (Standby)

State-of-the-art Denon Solutions for Maximizing Content Quality

- Fully discrete, identical quality and power for all 5 channels (75 W x 5 ch)

To faithfully reproduce the original surround sound, each of the AVR-391's 5 channels is equipped with the same power amp of equal power. Since these power amps also use discrete circuits configured with parts strictly selected for their contribution to high sound quality, rather than with low-cost integrated circuits (ICs), the surround sound playback is of impeccably high quality.

- Featuring 3D pass-through technology

By connecting a 3D-compliant Blue-ray disc player and 3D-compliant TV to the AVR-391, you will have a 3D home theater where you can enjoy high-definition sound and video on a level you've never experienced before.

- Supports HDMI 1.4a with 3D, Deep Color, "x.v.Color"

- High-definition audio support

The AVR-391 has a decoder that supports Dolby TrueHD and DTS-HD Master Audio, the high resolution audio formats found on many Blu-ray titles.

- Minimum Signal Path for clear audio and video signal

The "simple and straight" design concept has been thoroughly implemented in the signal paths to contribute to immaculately clean audio and video playback. Signal paths are as short as possible to keep signal degradation in the audio and video circuitry to an absolute minimum.

- Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance

Vibration-resistant construction has been reviewed to thoroughly suppress the adverse influences of vibration on sound quality. The power transformers, a source of vibration, have been securely mounted on the highly rigid bottom chassis. Direct mounting of cast-iron feet to the radiator in near proximity to each other serves to suppress mutual vibration with the power transformers and other sources of vibration.

- Compressed Audio Restorer to enhance digital music files

Connectivity & Future-ready Expandability

- 4 x HDMI in / 1 x HDMI out (Repeater)

The AVR-391 provides 4 HDMI inputs that let you simultaneously connect a variety of HDMI-equipped devices such as a game console and HD video camera as well as Blu-ray disc player.

- Stereo Mini Jack on front panel lets you connect any portable audio player

Compressed Audio Restorer is a Denon technology that restores compressed music sources to their original pre-compressed quality to give you a lively sonic ambience with greater detail and depth.



- Dock connectivity for iPod and network streaming

Network music can be enjoyed via the Denon Networked Control Dock. (Requires optional ASD-51W or ASD-51N dock)



Main Specifications

Power amplifier section		Preamplifier section	
Rated output	*THD figures are power amp stage values. 75 W + 75 W	Input sensitivity/impedance	200 mV / 47 kΩ/kohms
Front L/R	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 110 W + 110 W	Frequency response	10 Hz - 100 kHz — +1, -3 dB (DIRECT mode)
Center	(6 ohms, 1 kHz, THD 0.7%) 75 W	S/N Ratio	98 dB (IHF-A weighted, DIRECT mode)
Surround L/R	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 110 W + 110 W	FM section	
	(6 ohms, 1 kHz, THD 0.7%)	Tuning frequency range	87.5 - 107.9 MHz
		Usable sensitivity	1.2 μV (12.8 dBf)
		AM section	
		Tuning frequency range	520 - 1710 kHz
		Usable sensitivity	18 μV
General			
		Power supply	AC 120 V, 60 Hz
		Power consumption	330 W (Standby 0.5 W)
		Dimensions (W x H x D)	17-3/16" x 6-1/2" x 15"
			434 x 166 x 381 mm
		Weight	20 lbs 4.5 oz, 9.2 kg

Ports

In		Out	
HDMI	x 4	HDMI Monitor	x 1
S-Video	x 1	Composite Monitor	x 1
Composite (Video)	x 3	Audio Preout (Surround Back L/R, SW)	x 2
Analog Audio (Tuner included)	x 6	Phones	x 1
Digital Optical	x 1	Other	
Digital Coaxial	x 1	Dock Control Port	x 1
		FM Tuner Antenna	x 1
		AM Tuner Antenna	x 1



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