

AVR-1612

AV Surround Receiver

100th
Anniversary
since 1910

DENON

Surround Your 3D Video with Powerful, Realistic Sound

Connect the AVR-1612 5.1 channel HD-Audio receiver to a TV and Blu-ray disc player supporting 3D video and you'll be able to experience an exciting 3D theater with powerful surround sound. This receiver also has a USB port where you can connect an iPod®, iPhone®, or USB memory and directly play digital music tracks from those devices in the superior sound quality that Denon has become renowned for. Setup is extremely easy as the AVR-1612's Setup Wizard guides you through the procedures for setting the language, speakers connections and other items on your TV screen.



Features

New Features

- Direct play for iPod and iPhone via USB
- Setup Wizard, providing easy-to-follow setup instructions
- Easy operation, Graphical User Interface
- GUI overlay on HD Source
- Four quick select buttons, for easy operation

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

- Fully discrete, identical quality and power for all 5 channels (120 W x 5 ch)
- Stable power supply for high-quality sound and picture playback
- Featuring 3D pass-through technology
- 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

- Supports HDMI (V.1.4a with 3D, Audio Return Channel) Deep Color, "x.v.Color", Auto Lipsync and HDMI control function
- Dock connectivity for iPod and network streaming
- 4 x HDMI in / 1 x HDMI out

Ease-of-Use

- Audyssey Dynamic Volume®, for real-time volume adjustment
- Audyssey MultEQ® and Auto Setup
 - Tower type microphone for more accurate measuring
 - Up to six measurement points
 - High level resolution filters for satellite speakers and also subwoofer
- Comes with simple, easy-to-use remote control handset
- Sleep timer function
- Auto surround mode
- Audio level memory, capable of correcting different signal levels for each input device

Others

- Audio Delay function (0 to 200 msec)
- Muting level settings (Full/-40dB/-20dB)
- Variable subwoofer crossover switching
- Lower power consumption at stand-by 0.1 W (Standby)



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

- Fully discrete, identical quality and power for all 5 channels (120 W x 5 ch)

To faithfully reproduce the original surround sound, each of the AVR-1612'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 Blu-ray disc player and 3D-compliant TV to the AVR-1612, you will have a 3D home theater where you can enjoy high-definition sound and video on a level you've never experienced before.

High-definition audio support

The AVR-1612 has a decoder that supports Dolby TrueHD, the audio format of Blu-ray disc players, and DTS-HD Master Audio, another high-grade digital audio format.

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 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

- Supports HDMI (V.1.4a with 3D, Audio Return Channel) Deep Color, "x.v.Color", Auto Lipsync and HDMI control function

4 x HDMI in / 1 x HDMI out

The AVR-1612 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.

Dock connectivity for iPod and network streaming

Network music can be enjoyed via the Denon Networked Control Dock. (Requires separately-sold ASD-3N, ASD-51W or ASD-51N.)



Ease-of-use

Setup Wizard, providing easy-to-follow setup instructions

First select the language when prompted. Then simply follow the instructions displayed on the TV screen to set up the speakers and so on.



Easy operation, Graphical User Interface

GUI overlay on HD Source

You can easily make settings for your home theater system while viewing menus on the TV screen. These menu displays can also be output to the monitor over HDMI.

Easy operation via icon displays

The AVR-1612 includes one-touch Quick Selection buttons that let you instantly select frequently-used video/music sources and surround modes. Icon displays on the buttons make it easy to recognize the buttons' functions.



Main Specifications

Power amplifier section	
Rated output	*THD figures are power amp stage values.
Front L/R	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 120 W + 120 W (6 ohms, 1 kHz, THD 0.7%)
Center	75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 120 W (6 ohms, 1 kHz, THD 0.7%)
Surround L/R	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 120 W + 120 W (6 ohms, 1 kHz, THD 0.7%)

Preamplifier section

Input sensitivity/impedance	200 mV / 47 kΩ/kohms
Frequency response	10 Hz ~ 100 kHz - +1, -3 dB (DIRECT mode)
S/N Ratio	98 dB (IHF-A weighted, DIRECT mode)

FM section

Tuning frequency range	87.5 - 107.9 MHz
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AM section

Tuning frequency range	520 - 1710 kHz
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General

Power supply	AC 120 V , 60 Hz
Power consumption	360 W (Standby 0.1 W, CEC standby 3 W)
Dimensions (W x H x D)	17 1/8" x 6 3/8" x 15 3/64"
	434 x 162 x 382 mm
Weight	20 lbs 8.0 oz, 9.3 kg

Ports

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

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