

HD-Audio Receiver with 3D Video Connectivity

The AVR-591 is an A/V receiver with HDMI version 1.4a that can be connected to TVs and other devices such as Blu-ray disc players, game consoles, and set-top boxes, that support 3D video. Of course, it also supports HD Audio formats such as Dolby TrueHD and DTS-HD Master Audio to give you the powerful, dynamic surround sound you expect with the amazing 3D video images you're watching. In addition, the AVR-591 provides a wealth of features that you would want an A/V receiver to have, including HDMI conversion when connected to a TV via a single HDMI cable and a different type of video signal is being input to the AVR-591, convenient on-screen displays, and easy operation.



Features

New Features

- Featuring 3D pass-through technology
- Supports HDMI 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 (Repeater)
- Newly developed pre memory remote control handset with Glo-Key
- Remote Setup Guidance

One-cable HD solution

- Supports HDMI 1.4a with Audio Return Channel
- All sources are up-converted to HDMI
- 4 x HDMI in / 1 x HDMI out with On-Screen Display

State-of-the-art Denon Solutions for Maximising 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
- High definition audio support, Dolby TrueHD and DTS-HD Master Audio
- Supports Dolby Pro Logic IIz processing
- All sources are up-converted to HDMI

Connectivity & Future-ready Expandability

- Dock connectivity for iPod and network streaming

Ease-of-Use

- On-Screen Display
- 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

Others

- Lower power consumption at stand-by 0.1 W (Standby)

State-of-the-art Denon Solutions for Maximising 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-591'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-591, you will have a 3D home theatre where you can enjoy high-definition sound and video on a level you've never experienced before.

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

When you connect the AVR-591 to a TV with a single HDMI cable, it supports Audio Return Channel (ARC)^(*) that can play back the TV audio in surround sound. Until now, if you wanted to enjoy surround sound from a TV, you needed to use an optical digital cable or coaxial digital cable to bring sound from the TV to the A/V receiver. The AVR-591's ARC feature, however, helps you keep cable connections neat and out of the way as you build your home theatre.

*1: The TV must also support ARC.

• High-definition audio support

The AVR-591 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.

• Dolby Pro Logic IIz

To let you enjoy an even richer spatial expression, the AVR-591 is equipped with a Dolby Pro Logic IIz Processor. By adding a separate 2-channel power amp to the AVR-591's Preout port and connecting a pair of Front Height speakers, you will be able to enjoy surround sound in the vertical as well as horizontal direction.

• 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-591 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-51W or ASD-51N.)

Ease-of-use

• On-Screen Display

With the AVR-591's on-screen display, you can easily make settings for your home theatre system while viewing menus on the TV screen. You can check the status of each setting, such as the volume level when you're adjusting the volume, or the name of the input source when switching input sources.

• Newly developed pre memory remote control handset with Glo-Key

• Remote Setup Guidance

• Three Quick Select buttons

• Auto surround mode

• Sleep timer function

• Audio Delay function (max. 6 frames or 200 msec)

• Muting level settings (Full/-40dB/-20dB)

• Audio level memory, capable of correcting different signal levels for each input device

• Variable subwoofer crossover switching

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%)
Centre	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 (HF-A weighted, DIRECT mode)

FM section

Tuning frequency range	87.5 - 108 MHz
Usable sensitivity	1.2 μV (12.8 dBf)

AM section

Tuning frequency range	522 - 1611 kHz
Usable sensitivity	18 μV

General

Power supply	230 V, 50 Hz
Power consumption	360 W (Standby 0.1 W)
Dimensions (W x H x D)	434 x 171 x 381 mm
Weight	9.2 kg

Ports

In		
HDMI		x 4
Component		x 1
S-Video		x 1
Composite (Video)		x 3
Analog Audio (Tuner included)		x 5
Digital Optical		x 1
Digital Coaxial		x 1
Out		
HDMI Monitor		x 1
Composite Monitor		x 1
Audio Preout (Front hight L/R /Surround Back L/R, SW)		x 2
Phones		x 1
Other		
Microphone Port		x 1
Dock Control Port		x 1
FM Tuner Antenna		x 1
AM Tuner Antenna		x 1



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