

Experience the full ambience of 3D video and 3D sound

The AVR-2311 A/V receiver, with HDMI version 1.4a, can be connected to a TV and other video devices that support 3D video. This receiver supports not only Dolby TrueHD, DTS-HD Master Audio and other HD Audio formats but also Dolby Pro Logic IIz for enhanced vertical and horizontal spatial performance at the front, allowing you to experience the exciting ambience of 3D video and 3D acoustics. The AVR-2311 also provides numerous useful functions to enhance your viewing enjoyment, such as the ability to adjust contrast, brightness, chroma and other elements of picture quality, and a graphical user interface (GUI) that makes menu screens easy to understand.



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
- Direct play for iPod and iPhone via USB
- Newly developed pre memory remote control handset with Glo-Key
- iPod and iPhone playback for Zone 2
- Remote Setup Guidance
- Dual subwoofers preout

One-cable HD solution

- Supports HDMI 1.4a with Audio Return Channel
- All sources are up-scaled to 1080P
- 6 x HDMI in / 1 x HDMI out with GUI (Graphical User Interface)

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

- Fully discrete, identical quality and power for all 7 channels (135 W x 7ch)
- 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
- High-bit I/P Converter and Scaler up to 1080p
- Compressed Audio Restorer to enhance digital music files
- Denon's high picture quality circuitry
- Video digital noise reduction, to optimise effects for both SD and HD content

Connectivity & Future-ready Expandability

- Dock connectivity for iPod and network streaming
- Power Amp Assign function, for versatility in using the AVR-2311 for different purposes
- 2 source / 2 zone capability

Ease-of-Use

- On-Board GUI via HDMI output (up to 1080p)
- 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
- 2-line fluorescent display on front panel
- Sleep timer function

Others

- AMX, Crestron third party control support via RS-232C
- 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 7 channels (135 W x 7ch)

To faithfully reproduce the original surround sound, each of the AVR-2311's 7 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-2311, 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-2311 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-2311'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-2311 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-2311 is equipped with a Dolby Pro Logic IIz processor. By connecting Front Height speakers and using Dolby Pro Logic IIz playback, you will be able to enjoy surround sound in the vertical as well as horizontal direction.

• High-bit I/P Converter and Scaler up to 1080p

The AVR-2311 uses a high-performance video up-scaler to convert SD (standard definition) video material to HD (high definition) quality. This means that the 480i/480p (SD-quality) video signals of DVD programs and other material are converted to the high-quality 1080p signal of HD video, and output to the HDMI port. The fuzziness in the details of SD video is removed to produce a clear picture. Now you can enjoy not only your DVDs but also your VCR tapes and games with much greater clarity and detail.

• 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.

Connectivity & Future-ready Expandability

• 6 x HDMI in / 1 x HDMI out (Repeater)

• Direct play for iPod and iPhone via USB

You can also listen to music files from your iPod by simply connecting it to the AVR-2311's USB port with the USB cable that came with the iPod. To start play, just press the iPod Play button on the AVR-2311 or its remote control unit. Digital signals from the iPod are transmitted as is to the AVR-2311 where they pass through the compressed audio restorer and are processed by advanced audio circuitry to produce a clean, high-quality sound.

• 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.)

• Power Amp Assign function, for versatility in using the AVR-2311 for different purposes

The AVR-2311 supports up to 7.2 channels (FL/ FR/ C/ SL/ SR/ SBL/ SBR/ SW1/ SW2) for surround playback defined by the Blu-ray disc format. To enjoy surround playback with the AVR-2311's Dolby Pro Logic IIz, you can reassign the power amp from the two surround back channels (SBL/ SBR) to the two front high channels (FHL/FHR). Or by assigning the SBL/SBR power amp to Zone 2, you can enjoy multi-room audio playback, or to achieve higher-quality sound for 2-channel stereo playback, you can configure the AVR-2311 for front bi-amp operation. These are just some of the ways you can arrange the AVR-2311's amps to suit various listening styles.

Ease-of-use

• On-Board GUI via HDMI output (up to 1080p)

The AVR-2311 is equipped with an easy-to-view Graphical User Interface (GUI) featuring visual menu displays. These menu displays can also be output to the monitor over HDMI.

• 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

Others

- AMX, Crestron third party control support via RS-232C
- 150 mA Trigger output
- IR Remote in/out ports

Main Specifications

Power amplifier section

Rated output	*THD figures are power amp stage values.
Front L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%)
Centre	105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W (6 ohms, 1 kHz, THD 0.7%)
Surround L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%)
Surround Back L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W + 135 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	100 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	AC 230 V, 50 Hz
Power consumption	600 W (Standby 0.1 W)
Dimensions (W x H x D)	434 x 171 x 381 mm
Weight	11.0 kg

Ports

In	HDMI	x 6
	Component	x 2
	S-Video	x 2
	Composite (Video)	x 4
	Analog Audio (Tuner included)	x 8
	Digital Optical	x 2
Out	HDMI Monitor	x 1
	Component Monitor	x 1
	Composite Monitor	x 1
	Composite (DVR)	x 1
	Audio Preout (7ch)	x 1
	Audio Preout (SW)	x 2
	Audio Preout (Zone2 L/R)	x 1
	Audio REC out	x 1
	Phones	x 1
Digital Optical	x 1	
Other	USB port	x 1
	Microphone Port	x 1
	Dock Control Port	x 1
	FM Tuner Antenna	x 1
	AM Tuner Antenna	x 1
	Remote Control In/Out	In 1 / Out 1
	RS-232C	x 1
	DC12V 150mA MAX. trigger out	x 1



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