## **AVR-3311**

AV Surround Receiver



## DENON

# Immerse yourself in rich 3D video and 3D sound, plus on-line digital content

The AVR-3311 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 Audyssey DSX for a wide, highly realistic spatial expression at the left and right sides as well as the vertical and horizontal directions at the front, allowing you to experience a truly rich 3D ambience of video and sound. The AVR-3311 is also equipped with network functions that let you enjoy a variety of on-line content such as Napster, flickr, and Last.fm making this A/V receiver not only the heart of a home theatre but also the centre of how, at any time, you can enjoy your favourite music at home.



































AL 24 Processing Plus







flickr<sup>-</sup>

## 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
- Audyssey DSX Processing
- Enhance network capability
- -Internet Radio and network audio/photo streaming via Ethernet
- -flickr, Napster and Last.fm online support
- -FLAC HD, High-resolution audio format
- -Compatible with Windows® 7
- -web control
- Newly developed pre memory remote control handset with Glo-Key
- iPod and iPhone playback for Zone 2 / Zone 3
- 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 / 2 x HDMI out with GUI (Graphical User Interface)



## State-of-the-art Denon Solutions for Maximising Content Quality

- Fully discrete, identical quality and power for all 7 channels (165 W x 7ch)
- Stable power supply for high-quality sound and picture playback
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
- 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

## Connectivity & Future-ready Expandability

- Party Mode
- Power Amp Assign function, for versatility in using the AVR-3311 for different purposes
- 3 source / 3 zone capability

## Ease-of-Use

- On-Board GUI via HDMI output (up to 1080p)
- Audyssey Dynamic Volume, for real-time volume adjustment
- Audyssey MultEQ XT and Auto Setup
- 2-line fluorescent display on front panel
- Sleep timer function

## Others

- AMX, Crestron third party control support
- PC and iPhone setup via Ethernet (web control)
- 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 7 channels (165 W x 7ch)

To faithfully reproduce the original surround sound, each of the AVR-3311'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-3311, 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-3311 to a TV with a single HDMI cable, it supports Audio Return Channel (ARC)(\*1) 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-3311'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.

## • Dynamic Discrete Surround Circuit, D.D.S.C.-HD

- 32-bit floating point high precision DSP processor
- AL24 Processing Plus provides more real sound
- high-precision D/A converters

## · Clock jitter reducer available for all digital inputs

## • High-definition audio support, Dolby TrueHD and DTS-HD Master Audio

### Audyssey DSX processing

Auddysey DSX extends 5.1-channel and 7.1-channel sound sources to a wider and higher dimension. A sound that is wider to the left and right is achieved by adding a sound source (LW/RW) that is wider than the usual placement of the front (FL/FR) speakers, and a greater sense of height in sound space is achieved by adding a sound source (LH/RH) in the upper area between the FL (FR) and LW (RW) channels.

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

Multi cadence detection for SD and HD video signal The AVR-3311 uses a high-performance video up-scaler to convert SD (standard definition) video material to HD (high definition) quality.

## • 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 / 2 x HDMI out (Repeater)

## · Selectable 2 HDMI monitor outputs, (MONITOR 1 is ARC, HDMI CEC compatible)

For instance, you can connect your HDMI CEC compatible TV to MONITOR 1 and projector to MONITOR 2 terminal.

## • 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-3311's USB port with the USB cable that came with the iPod. To start play, just press the iPod Play button on the AVR-3311 or its remote control unit. Digital signals from the iPod are transmitted as is to the AVR-3311 where they pass through the compressed audio restorer and are processed by advanced audio circuitry to produce a clean, high-quality sound.

· Power Amp Assign function, for versatility in using the AVR-3311 for different purposes

### Ease-of-use

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

The AVR-3311 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

- Newly developed pre memory remote control handset with Glo-Key + zone remote control unit
- Remote Setup Guidance
- Three Quick Select buttons
- Auto surround mode
- Sleep timer function
- · Audio level memory, capable of correcting different signal levels for each input device

- Audio Delay function (max. 6 frames or 200 msec)
- Muting level settings (Full/-40dB/-20dB)
- · Variable subwoofer crossover switching
- AMX, Crestron third party control support
- 150 mA Trigger output
- web control
- Multi-Zone Management
- Remote Access & Maintenance
- IP Control
- IR Remote in/out ports

Power amplifier section		Preamplifier section	
Rated output	*THD figures are power amp stage values.	Input sensitivity/impedance	200 mV / 47 kΩ/kohms
Front L/R	125 W + 125 W	Frequency response	10 Hz ~ 100 kHz — +1, −3 dB (DIRECT mode
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 165 W + 165 W	S/N Ratio	102 dB (IHF-A weighted, DIRECT mode)
	(6 ohms, 1 kHz, THD 0.7%)	FM section	
Centre	125 W	Tuning frequency range	87.5 - 108 MHz
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 165 W	Usable sensitivity	1.2 μV, (12.8 dBf)
	(6 ohms, 1 kHz, THD 0.7%)	AM section	
Surround L/R	125 W + 125 W	Tuning frequency range	522 - 1611 kHz
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 165 W + 165 W	Usable sensitivity	18 μV
	(6 ohms, 1 kHz, THD 0.7%)	General	
Surround Back L/R	125 W + 125 W	Power supply	AC 230 V, 50 Hz
	(8 ohms, 20 Hz - 20 kHz, THD 0.05 %)	Power consumption	670 W (Standby 0.1 W)
	165 W + 165 W	Dimensions (W x H x D)	434 x 171 x 381 mm
	(6 ohms, 1 kHz, THD 0.7%)		12.2 kg



\*Premium silver version is also available.

Ports		
In	HDMI	x 6
	Component	x 2
	S-Video	x 2
	Composite (Video)	x 5
	Analog Audio (Tuner included)	x 9
	Digital Optical	x 2
	Digital Coaxial	x 2
Out	HDMI Monitor	x 2
	Component Monitor	x 1
	Composite Monitor	x 1
	Composite (DVR/ Zone2)	x 2
	Audio Preout (FL/ FR/ C/ SL/ SR/ SBL/ SBR)	7ch
	Audio Preout (SW)	x 2
	Audio Preout (Zone2 L/R, Zone3 L/R)	x 2
	Audio REC out	x 1
	Phones	x 1
	Digital Optical	x 1
Other	USB port	x 1
	Ethernet	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 2

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