

AVR-3310

A/V Surround Receiver

DENON

A/V Surround Receiver featuring Advanced Connectivity, Network Audio, Photo Streaming and an interface that enhances your level of entertainment pleasure

The AVR-3310 is a 7-channel A/V surround receiver that not only offers high-bit i/p conversion and scaling along with other acclaimed Denon audio and video technologies, but also lets users enjoy a wide variety of media such as Network Audio and Photo Streaming.



Premium silver



Black



Features

New Features

- Clock Jitter Reducer available for all digital inputs
- Dolby Pro Logic IIz processing
- High bit i/p converter and scaler up to 1080p
 - Multi-cadence detection for SD and HD video signal
 - Digital noise reduction and detail enhancer
- 5 x HDMI in / 1 x HDMI out (Repeater and Scaler)
- Enhance network capability
 - Napster online subscription based service support
- Sleep timer function

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

- Identical quality and power for all 7 channels, 160W x 7ch (6 ohms)
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
 - New 32-bit floating point high precision DSP processor
 - AL24 Processing Plus, to dramatically enhance the music listening experience
 - Differential D/A Converters
- Stable power supply for high-quality sound and picture playback
- Compressed Audio Restorer to enhance digital music files
- Dolby TrueHD and dts-HD Master Audio decoders
- DENON's high picture quality circuitry, to enhance enjoyment of existing DVDs
- Video digital noise reduction, to optimize effects for both SD and HD content
- Bi-amp capability

Connectivity & Future-ready Expandability

- Internet Radio and Network audio/photo streaming from PC/MAC, server
- USB mass storage support for audio and photo playback (MTP compatible)
- 3 source/3 zone capability
- Power amplifier, assign for zone 2 or 3
- Possible Software-Update via Internet

Ease-of-Use

- On-Board GUI, Superimposed on HDMI (up to 1080p)
- Audyssey Dynamic Volume, for real-time volume adjustment
- Audyssey Dynamic EQ selects the correct frequency response and surround volume levels on a moment by moment basis
- Audyssey MultEQ Auto setup and Room EQ
- 2-line fluorescent display on front panel
- Sleep timer function
- Three Quick Select Buttons
- Pre memory & learning remote control unit + zone remote control unit

Custom Integration

- Remote Installer Access via DPMS
- PC setup via Ethernet (Web setup)

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

Clock Jitter Reducer available for all digital inputs

The Clock Jitter Reducer thoroughly suppresses fluctuations on the clock waveform to remove distortion from the digital audio signal and minimize adverse influences on sound quality.

7ch Discrete Mono Amp Construction

New construction design (discrete amp construction for each channel) is adopted for more precise sound reproduction.

Support for new surround extension

By assigning 7 channels of power from the AVR-3310's built-in power amp to individual channels, you can create and enjoy your own custom surround mode.

Dolby Pro Logic IIz processing

Dolby Pro Logic IIz is a surround technology that adds front height channel sound sources above the front left and right speakers to enable 7.1-channel playback for 5.1-channel program sources. Since the dimension of height is being added to conventional surround sound, you can experience sound movements above you while watching movies or playing games. With music, the sound space of a concert hall is more realistically reproduced.

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

The AVR-3310 uses a high-performance video upscaler to convert SD (standard definition) video material to HD (high definition) quality. This means that the 480i/480p or 576i/576p (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 video noise 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.

Analogue video input signals (composite, S-video, component) are converted to digital video signals and transmitted to the HDMI output. Digital video signals are sent to HDMI output even when multiple HDMI devices such as a video camera or a games console are connected to the AVR-3310. One HDMI cable is all that's needed to connect the AVR-3310 to a TV (monitor).

- **Analogue to HDMI up-conversion, I/P converter and scaler on HDMI to HDMI**
- **Minimum Signal Path for clear audio and video signals**
- **Direct Mechanical Ground Construction, for thorough vibration resistance**
- **Digital/analogue separate windings**
- **Compressed Audio Restorer to enhance digital music files**
- **Pure Direct function**

Connectivity & Future-ready Expandability

Party Mode

The 'Party Mode' allow you to supply same music (iPod / Internet Radio / PC music / NAS) up to five rooms including its local music system at the same time among DENON 'Party Mode' compliant products on the network.

- **Audio/video playback and control for iPod with optional dock (ASD-11R)**
- **Includes dedicated zone remote control unit**

Ease-of-Use

On-Board GUI via HDMI output

The AVR-3310 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.

Audyssey Dynamic Volume, for real-time volume adjustment

Audyssey Dynamic Volume constantly monitors the sound sources and adjusts the volume to the optimum level for the particular source being heard without sacrificing dynamics. The AVR-3310 is also equipped with Audyssey MultEQ which measures the acoustic characteristics of the room to obtain the optimum acoustic effects, and Dynamic EQ which reproduces the high and low range with the optimum acoustic effect during low volume levels. Dynamic Volume combines these two functions to achieve maximum performance.

- **Auto surround mode**
- **Audio level memory, capable of correcting different signal levels for each input device**
- **Variable subwoofer crossover switching**
- **Support CEC**

Custom Integration

- **AMX, Crestron and third party control by IP and RS-232C port**
- **150mA Trigger output**
- **IR Remote in/out ports**

Ports

In		
HDMI		x 5
Component		x 3
S-Video		x 7
Composite (Video)		x 7
Analogue Audio (Tuner included)		x 10
Analogue EXT. Input		7.1ch
Digital Optical		x 3
Digital Coaxial		x 3
Out		
HDMI Monitor		x 1
Component Monitor		x 1
S-Video Monitor		x 1
S-Video		x 2
Composite Monitor		x 1
Composite (Zone2)		x 1
Analogue Audio REC		x 2
Audio Preout (Zone2 / Zone3 / 7.1ch)		x 3
Digital Optical		x 1
Phones		x 1
Other		
Microphone Port		x 1
Dock Control Port		x 1
FM Tuner Antenna		x 1
AM Tuner Antenna		x 1
Ethernet		x 1
USB		x 1
RS-232C		x 1
Remote Control In/Out		In 1 / Out 1
DC12V 150mA MAX. trigger out		x 2

Main Specifications

Power amplifier section

Rated output	*THD figures are power amp stage values.
Front L/R	160 W + 160 W (6 ohms, 1 kHz, THD 0.7%) 120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %)
Center	160 W (6 ohms, 1 kHz, THD 0.7%) 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %)
Surround L/R	160 W + 160 W (6 ohms, 1 kHz, THD 0.7%) 120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %)
Surround Back L/R	160 W + 160 W (6 ohms, 1 kHz, THD 0.7%) 120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %)

Preamplifier section

Input sensitivity/impedance	
PHONO (MM)	2.5 mV
Audio inputs	200 mV/47 kohms
Output level/Load impedance	
Audio outputs	1.2 V

FM section

Tuning frequency range	87.5 - 108 MHz
Usable sensitivity	1.0 µV (11.2 dBf)

AM section

Tuning frequency range	522 - 1611 kHz
Usable sensitivity	18 µV

General

Power supply	AC 230 V, 50 Hz
Power consumption	670 W (Standby 0.1 W)
Dimensions (W x H x D)	434 x 171 x 414 mm
Weight	12.9 kg



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