

AVR-2310

A/V Surround Receiver

DENON

A/V Surround Receiver featuring Dolby TrueHD, dts-HD Master Audio, new GUI, 1080p High bit Video processing and picture adjust to have your entertainment world under control.

The AVR-2310 is a 7.1-channel A/V surround receiver that brings out the full performance of HD audio and HD video. It also has a high-performance video processor that reproduces the usual SD picture quality of DVD and other sources in the high 1080p resolution of HD video. Moreover, you can adjust and fine-tune the picture using the highly appreciated video Noise Reduction and Enhancer. The highly versatile AVR-2310 even supports Dolby Pro Logic IIz that reproduces surround sound with a vertical dimension in the front. Its other features include an easy-to-use GUI, remote control unit and numerous DENON technologies such as Direct Mechanical Ground Construction and Minimum Signal Paths that ensure total fidelity in HD audio and video playback and the best possible experience in surround A/V entertainment for you.



Premium Silver



Black



Features

New Features

- **High bit i/p converter and scaler up to 1080p**
 - Multi-cadence detection for SD and HD video signal
 - Digital noise reduction and enhancer
- **Dolby Pro Logic IIz processing**
- **5 x HDMI in / 1 x HDMI out (Repeater and Scaler)**
- **Sleep timer function**
- **On-Board GUI via HDMI output**

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

- Identical quality and power for all 7 channels, 135W x 7ch (6 ohms)
- 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

Connectivity & Future-ready Expandability

Digital Media Connectivity

- Can be expanded with DENON ASD-3N or ASD-3W docks for media streaming

Multi-Zone Capability

- 2 source / 2 zone capability with fixed preamplifier output
- Assignable Surround Back amplifier for zone 2

Ease-of-Use

- On-Board GUI via HDMI output
- Audyssey Dynamic Volume, for real-time volume adjustment
- Audyssey MultEQ Auto setup and Room EQ
- HDMI and Component Video Conversion
- Three Quick Select Buttons
- Pre memory remote control unit

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

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

The AVR-2310 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 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 to HDMI up-conversion, I/P converter and scaler on HDMI to HDMI

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-2310. One HDMI cable is all that's needed to connect the AVR-2310 to a TV (monitor).

Dolby Pro Logic IIz processing

Dolby Pro Logic IIz introduces a new dimension to home theatre entertainment through the addition of a pair of front height channels. Compatible with stereo, 5.1 and 7.1 content, Dolby Pro Logic IIz provides enhanced spaciousness, depth and dimension to movies, concerts and video game playback while maintaining the full integrity of the source mix.

Minimum Signal Path for clear audio and video signals

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

The 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.

Digital/analogue separate windings

Compressed Audio Restorer to enhance digital music files

Connectivity & Future-ready Expandability

Power Amp Assign function, for versatility in using the AVR-2310 allows for different purposes

The AVR-2310 supports up to 7.1 channels (FL/ FR/ C/ SL/ SR/ SBL/ SBR/ SW) for surround playback defined by the Blu-ray disc format. To enjoy surround playback with the AVR-2310'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 (FLH/FRH). 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-2310 for front bi-amp operation. These are just some of the ways you can arrange the AVR-2310's amps to suit various listening styles.

Audio/video playback and control for iPod with optional dock (ASD-11R)

Ease-of-use

On-Board GUI via HDMI output

The AVR-2310 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-2310 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.

MultEQ Auto setup and Room EQ

- Tower type microphone for more accurate measuring
- Up to six measurement points
- High level resolution filters for satellite speakers and also subwoofer

- Auto surround mode
- 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 | | Preamplifier section | |
|-------------------------|---|-----------------------------|---|
| Rated output | *THD figures are power amp stage values. | Input sensitivity/impedance | 200 mV / 47 kΩ/kohms |
| Front L/R | 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%) | Frequency response | 10 Hz ~ 100 kHz -- +1, -3 dB (DIRECT mode) |
| | 105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) | S/N Ratio | 100 dB (IHF-A weighted, DIRECT mode) |
| Center | 135 W (6 ohms, 1 kHz, THD 0.7%) | | |
| | 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) | FM section | |
| Surround L/R | 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%) | Tuning frequency range | 87.5 - 108 MHz |
| | 105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) | Usable sensitivity | 1.0 μV (11.2 dBf) |
| Surround Back L/R | 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%) | AM section | |
| | 105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) | Tuning frequency range | 522 - 1611 kHz |
| | | Usable sensitivity | 18 μV |
| | | General | |
| | | Power supply | AC 230 V, 50 Hz |
| | | Power consumption | Standby 0.3 W |
| | | Dimensions (W x H x D) | 434 x 171 x 377 mm |
| | | Weight | 11.2 kg |

Ports

| In | | Out | |
|-------------------------------|--------|-----------------------------------|-------------------------|
| HDMI | x 5 | HDMI Monitor | x 1 |
| Component | x 2 | S-Video (Monitor / VCR) | x 1 |
| S-Video | x 3 | Component Monitor | x 1 |
| Composite (Video) | x 4 | Composite Monitor (Monitor / DVR) | x 2 |
| Analog Audio (Tuner included) | x 8 | Analog Audio REC | x 2 |
| Analog EXT. Input | 7.1 ch | Audio Preout (Zone2 / 7.1ch) | x 2 |
| Digital Optical | x 2 | Digital Optical | x 3 (incl. 1x Front) |
| Digital Coaxial | 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 |
| | | RS-232C | x 1 |
| | | Remote Control In/Out | In 1 / Out 1 |



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