

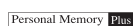
# AVR-890

AV Surround Receiver

# DENON

A/V Surround Receiver featuring Dolby TrueHD, DTS-HD Master Audio and Multi Room functionality that enhances your level of entertainment enjoyment.

The AVR-890 is a versatile A/V surround receiver with a 7.1-channel surround amp that supports Dolby TrueHD and DTS-HD Master Audio decoding. The AVR-890 provides a Graphical User Interface (GUI) that lets you check the unit's status in color for easier operation. The AVR-890 is also endowed with a variety of Denon technologies such as Direct Mechanical Ground Construction and Minimum Signal Paths for faithful reproduction of HD sound and HD picture quality.



## Features

### New features

- High bit i/p converter and scaler up to 1080p featuring Anchor Bay VRS processing
  - Multi cadence detection for SD and HD video signals
  - 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, 105 W x 7ch
- 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

- Sirius satellite radio ready
- Power amplifier assign for zone 2

### Ease-of-use

- Audyssey Dynamic Volume, for real-time volume adjustment
- Audyssey MultEQ Auto setup and Room EQ room acoustic correction system
- 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-890 features state-of-the-art Anchor Bay Technologies ABT-2010 VRS precision 12-bit video deinterlacing and upconversion that processes SD sources such as DVD and converts them to HD (high definition) quality for improved sharpness and clarity. Now you can enjoy not only your DVDs but also your VCR tapes and standard definition (480i/480p) games with much greater clarity and detail. And, the ABT VRS technology includes both SD as well as HD digital video noise reduction to minimize compression artifacts with noisy video sources.

• Analog to HDMI up-conversion, I/P converter and scaler on HDMI to HDMI

Analog video input signals (composite, S-video, component) are converted to digital video signals and transmitted to the HDMI output port. Digital video signals are sent to the HDMI output even when multiple HDMI devices such as a video camera or a game console are connected to the AVR-890. One HDMI cable is all that's needed to connect the AVR-890 to a TV (monitor).

• Dolby Pro Logic IIz processing

Dolby Pro Logic IIz introduces a new dimension to home theater 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, concert video and video game playback while maintaining the full integrity of the source mix.

• 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.

• Digital / analog separate transformer windings

• Compressed Audio Restorer to enhance digital music files

## Connectivity & Future-ready Expandability

• Power Amp Assign function, for versatility in using the AVR-890 for different purposes

The AVR-890 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-890's Dolby Pro Logic IIz, you can reassign the power amp from the two surround back channels (SBL/SBR) to the two front height 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-890 for front bi-amp operation. These are just some of the ways you can arrange the AVR-890's amps to suit various listening styles.

• Audio/video playback and control for iPod® with optional dock (ASD-11R/3N/3W)

## Ease-of-use

• On-Board GUI via HDMI output

The AVR-890 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 dynamic range. The AVR-890 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 room acoustic correction system

- 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

## Ports

In		
HDMI		x 5
Component		x 2
S-Video		x 3
Composite (Video)		x 4
Analog Audio (Tuner included)		x 8
Analog EXT. Input		7.1ch
Digital Optical		x 2
Digital Coaxial		x 2
Out		
HDMI Monitor		x 1
Component Monitor		x 1
Composite Monitor (Monitor / DVR)		x 2
Analog Audio REC		x 2
Analog Audio (Zone2)		x 1
Audio Preout (SW)		x 1
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
Sirius Connector		x 1
Remote Control In/Out		In 1 / Out 1

## 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	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%)	Frequency response	10 Hz ~ 100 kHz — +1, -3 dB (DIRECT mode)
Center	105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W (6 ohms, 1 kHz, THD 0.7%)	S/N Ratio	100 dB (IHF-A weighted, DIRECT mode)
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%)	FM section	
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%)	Tuning frequency range	87.5 - 107.9 MHz
		Usable sensitivity	1.0 μV (11.2 dBf)
		AM section	
		Tuning frequency range	520 - 1710 kHz
		Usable sensitivity	18 μV
		General	
		Power supply	AC 120 V, 60 Hz
		Power consumption	6.0 A (Standby 0.3 W)
		Dimensions (W x H x D)	434 x 171 x 377 mm 17-3/32" x 6-47/64" x 14-27/32"
		Weight	11.3 kg 24 lbs 14.6 oz



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