

AVR-589

AV Surround Receiver

DENON

A/V Surround Receiver featuring HD Video connectivity, that enhances your level of entertainment enjoyment.

The AVR-589 monitors the structural elements of sound sources and uses Audyssey Dynamic Volume to adjust volume without sacrificing dynamic range. This A/V receiver masterfully controls a variety of media for optimum playback of high-quality audio and video content.



HDMI

AUDYSSEY
MULTEQAUDYSSEY
DYNAMIC EQAUDYSSEY
DYNAMIC VOLUMESIRIUS
READY

Personal Memory Plus

auto setup
roomEQ5ch
EQUAL
POWER6ch
EXT.INPUTCINEMA
EQ

Features

New Features

- Audyssey Dynamic Volume and Dynamic EQ
- Sirius Satellite Radio ready
- State-of-the-art Denon Solutions for Maximizing Content Quality
 - Reproduce as perfect as a content producer intend to express (Denon Circuitry and Construction for Hi-Fi Sound Quality / Compressed Audio Restorer)
 - Easy to use (QUICK SELECT / Audyssey DYNAMIC EQ + DYNAMIC VOLUME)
 - Connectivity (HDMI / Dock control terminal (Network ready))

High quality Sound

- Identical quality and power for all 5 channels, 75W x 5ch
- Discrete devices for ultimate performance in each block
- New 32-bit floating point high precision DSP
- Minimum signal path design
- Direct Mechanical Ground for stable drive
- Dual power transformers
- Denon customized block capacitors
- Compressed Audio Restorer

High quality Video

- HDMI (ver. 1.3a supporting Deep Color (30/36-bit), "x.v.Color")
- 1080p video pass through

Connectivity & Future-ready Expandability

Digital Media Connectivity

- Optional Network Streaming iPod Dock (ASD-3N - wired, ASD-3W - wireless)
- Optional iPod Audio/Photo and Video Playback Dock (ASD-1R)
- Optional iPod/iPhone Audio/Photo and Video Playback Dock (ASD-11R)

Ease-of-Use

- Audyssey Dynamic Volume and Dynamic EQ
- Audyssey MultEQ Auto setup and Room EQ

State-of-the-art Denon Solutions for

Maximizing Content Quality

- Robust power source for each block, for stable supply of current

To produce a clear, stable power circuit that prevents unwanted noise from affecting the sound, the AVR-589 has a dedicated CPU transformer that are separate from the audio and video circuitry. The AVR-589 is endowed with a powerful rectifier circuit with 10,000µF block capacitors and a bridge diode of 8A capacity, surpassing typical models in this price range, to supply stable current with negligible noise.

- Minimum Signal Path

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

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.

- Compressed Audio Restorer

Denon's new audio technology for MP3/WMA/AAC

compressed audio formats restores higher frequency sounds, along with rich, deeper bass.

Ease-of-Use

- Audyssey Dynamic Volume, for real-time volume adjustment

Large changes in volume sometimes occur between documentaries where the sound is mainly narrative and movies which often contain loud sound effects. Viewers often raise the volume for documentaries to hear the narrative more easily but then turn it down again when a commercial with loud sound effects comes on. They do this numerous times during a program of this type. 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-589 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

Main Specifications:

Power amplifier section

Rated output *THD figures are power amp stage values.

Front L/R 75 W + 75 W
(8 ohms, 20Hz - 20kHz, THD 0.08 %)
110 W + 110 W

Center 75 W
(8 ohms, 20Hz - 20kHz, THD 0.08 %)
110 W

Surround L/R 75 W + 75 W
(8 ohms, 20Hz - 20kHz, THD 0.08 %)
110 W + 110 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 98 dB (IHF-A weighted, DIRECT mode)

FM section

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 3.9 A (Standby 0.3W)

Dimensions (W x H x D) 434 x 171 x 377 mm

17-3/32" x 6-47/64" x 14-27/32"

Weight 10.8 kg

23lbs 13oz

- Three Quick Select Buttons

- Auto setup, auto surround, auto signal detection

- Auto Surround mode

- Audio Delay function (max. 6 frames or 200 msec)

- Night Mode for neighbor friendly listening

- Muting level settings (Full/-40dB/-20dB)

- Audio Level Memory, capable of correcting

different signal levels for each input device

- Volume Level Limiter, for setting maximum volume levels

- Power-ON Volume Level Memory

- Variable subwoofer crossover switching

Input / Output Terminals:

IN		
HDMI		2
Component		2
S-Video		3
Composite		4
Analog Audio (Tuner included)		7
Analog EXT. Input		5.1ch
Digital OPTICAL		2
Digital COAXIAL		2

OUT		
HDMI Monitor		1
Component Monitor		1
S-Video Monitor		1
REC		1
Composite Monitor		1
REC		1
Analog Audio REC		2
Audio PRE out (Sub woofer)		1

Others		
Dock Control Port		1
Sirius Connector		1
FM Tuner Antenna		1
AM Tuner Antenna		1



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