New model information

# AVR-4308A

AV Surround Receiver

DENON

## A/V HD Surround Receiver featuring Advanced Connectivity, Network Audio Streaming and an interface that enhances your level of entertainment enjoyment.

Network




Silver



Black

### Features

#### New Features

**Ease-of-Use**

- Audyssey Dynamic Volume, Dynamic EQ
- CEC Protocol

#### The Latest HD Audio and Video Support

- New lossless audio formats: Dolby True HD and DTS-HD Master Audio decoders
- New advanced audio formats: Dolby Digital Plus and DTS-HD High Resolution Audio decoders
- Deep 30/36 bit colour depth and xvYCC broad colour space support.
- HDMI 1.3a inputs/ouputs allow high speed HD audio and video signal handling.

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

- **Identical quality and power for all 7 channels, 140W x 7ch**
- **Dynamic Discrete Surround Circuit, D.D.S.C.-HD**
  - Discrete Devices for ultimate performance in each block
  - Dual New 32bit floating point DSP
  - Master clock design for more accurate processing and less jitter noise.
  - Advanced AL24 processing provides more dynamic range and improves low level sound details.
- **Compressed Audio Restorer**
  DENON's new audio technology for MP3/WMA/AAC compressed audio formats restores higher frequency sounds as well as rich, deep bass.This new audio technology provides better sound for iPod, USB player and network streaming audio.
- **Latest version MultEQ XT**
  - New tower type microphone for more accurate measuring
  - Up to eight measurement points
  - New filtering ALFC(Adaptive Low Frequency Correction) for higher resolution processing in the low frequency band.
- **HD Video Circuit**
  - Discrete devices for ultimate HD video performance in each block.
  - Faroudja DCDi Processing up to 1080p
  - 12bit/216MHz video encoder and decoder with NSV
  - Analogue to HDMI up conversion and HDMI to HDMI up conversion
- **New Chassis Construction for clear audio and video signal**
  - Minimum signal path
  - Direct Mechanical Ground for stable drive
  - Separate unit design

#### Digital Media Connectivity

- **Network**
  - Playback music file from PC or DLNA server
  - AAC, WMA , MP3, FLAC, WAV file support
  - Playback over 7000 internet radio stations
  - JPEG Photo slideshow
  - Wired network or Wi-Fi IEEE 802.11 b and g
  - WEB system control via network
- **iPod® audio, photo and video playback**
  (optional ASD product family)
- **Mass storage support USB for audio and photo playback**
- **Built-in DAB**

#### Ease-of-Use

- **New Graphical User Interface**
  Newly developed user interface for easy operation, setup and digital media browsing.
  - Album art support for iPod/Network/USB
  - Title text for iPod/Network/USB and also DAB
  - Multi-language support
  - Available for 1080p HDMI signal
  - Zone 2 OSD with text/album art is also available
- **Multi-lingual support for GUI**
- **Auto set-up and Room EQ, featuring MultEQ XT from Audyssey**
- **Includes dedicated zone remote control unit**
- **Auto Lip Sync (HDMI 1.3a)**
- **New back panel layout**

## Multi Zone Capability

- Four Zone multi source capability
- Digital to analogue conversion for multi zone output
- Zone 2 OSD
- Dual HDMI output simultaneously
- Dual component outputs and independent zone component output
- Remote in/out
- RS-232C control
- IP control

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

- Digital / Analogue separate winding
- Large-output power amp section and power supply configuration, for stable high-power output
- Stable power supply for high-quality sound and picture playback
- 24-bit/192-kHz D/A converter for all channels
- DENON Link (3rd), for high-speed, high-grade digital signal transmission
- Pure Direct mode, for the enjoyment of music in high-quality sound
- Supports the most advanced surround playback formats

  Dolby Digital EX/ Dolby Digital / Dolby Pro Logic IIx / DTS-ES / DTS 96/24 / DTS Neo:6 / DTS / HDCD
- Variable subwoofer crossover switching
- Pre-amp with Variable Gain Volume

## Connectivity & Future-ready Expandability

- HDMI™ inputs with 1080p capability
- Video up conversion, capable of output to HDMI port
- 3 source / zone capability
- RS-232C terminal, for external 3rd party control systems and possible future upgrades
- Remote IN/OUT ports

## Ease-of-Use

**• Audyssey Dynamic Volume, Dynamic EQ**

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-4308A 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.

**• CEC Protocol**

When connected via HDMI cable to a TV or player that supports HDMI Control, it is possible to use the TV's remote control unit to perform such operations as turn power on or off, switch functions, or adjust the volume.
(Note: This may not work with some devices or settings.)

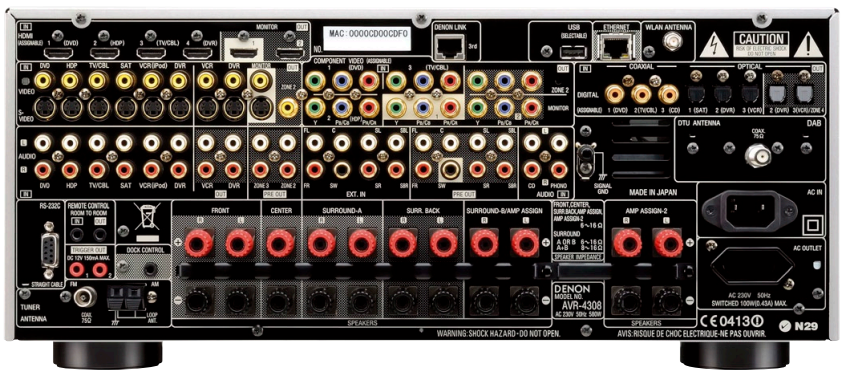
- 3 Quick Select Buttons
- Auto Surround Back Channels ON function, for auto-detection of supporting sources
- Auto Surround mode
- Audio Delay function (max. 6 frames or 200 msec)
- Night Mode for neighbour friendly listening
- Muting level settings (∞/-40dB/-20dB)
- Audio Level Memory, capable of correcting different signal levels for each input device
- Volume Level Limiter, for setting maximum volume levels
- Power-ON Volume Level Memory
- EL programmable remote control unit



## Input / Output terminals

| | | |
|---|---|---|
| **IN** | HDMI | 4 |
| | Component | 3 |
| | S-Video | 7 |
| | Composite | 7 |
| | Analog audio | 10 |
| | Digital OPT | 4 |
| | Digital COAX | 3 |
| | Ethernet | 1 |
| | USB | 2 (selectable) |
| | iPod ready | 1 |

| | | |
|---|---|---|
| **OUT** | HDMI | 2 |
| | Component | 2 |
| | S-Video | 3 |
| | Composite | 3 |
| | Analog audio | 2 |
| | Digital OPT | 2 |
| | Pre out | 7.1ch |
| **Others** | Zone Component out | 1 |
| | Zone Composite out | 1 |
| | Zone analog audio out | 2 |
| | Zone digital audio out | 1 |
| | Trigger +12V, 150mA | 2 |
| | RS-232C | 1 |
| | Remote In/Ou | 1/1 |




## Specifications

### Power amplifier section

| | |
|---|---|
| Rated output | *THD figures are power amp stage values. |
| Front L/R | 140 w + 140 w (8 ohms, 20Hz - 20kHz, THD 0.05%) |
| | 170 w + 170 w (6 ohms, 1 kHz, THD 0.7%) |
| Centre | 140 w (8 ohms, 20Hz - 20kHz, THD 0.05%) |
| | 170 w (6 ohms, 1 kHz, THD 0.7%) |
| Surround L/R | 140 w + 140 w (8 ohms, 20Hz - 20kHz, THD 0.05%) |
| | 170 w + 170 w (6 ohms, 1 kHz, THD 0.7%) |
| Surround Back L/R | 140 w + 140 w(8 ohms, 20Hz - 20kHz, THD 0.05%) |
| | 170 w + 170 w (6 ohms, 1 kHz, THD 0.7%) |

### Preamplifier Section

| | |
|---|---|
| Input sensitivity/impedance | |
| PHONO(MM) | 2.5 mV/47 kohms |
| Audio inputs | 200 mV/47 kohms |
| Output level/Load impedance | |
| Audio outputs | 1.2 V/10 kohms |
| Rec. Audio outputs | 200 mV/47 kohms |

### FM Section

| | |
|---|---|
| Tuning frequency range | 87.5 - 108.0 MHz |
| Usable sensitivity | 1.0 µV (11.2 dBf) |

### AM Section

| | |
|---|---|
| Tuning frequency range | 522 - 1611 kHz |
| Usable sensitivity | 18 µV |

### DAB Section

| | |
|---|---|
| Tuning frequency range | BAND III 174.928 - 239.200 MHz |
| | L-BAND 1452.960 - 1490.624 MHz |
| Sensitivity | -98 dBm (BAND III) |
| | -94dBm (L-BAND) |

### General

| | |
|---|---|
| Power supply | AC 230 V, 50 Hz |
| Dimensions (WxHxD) | 434 x 195 x 445 mm |
| Weight | 18.9 kg |


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