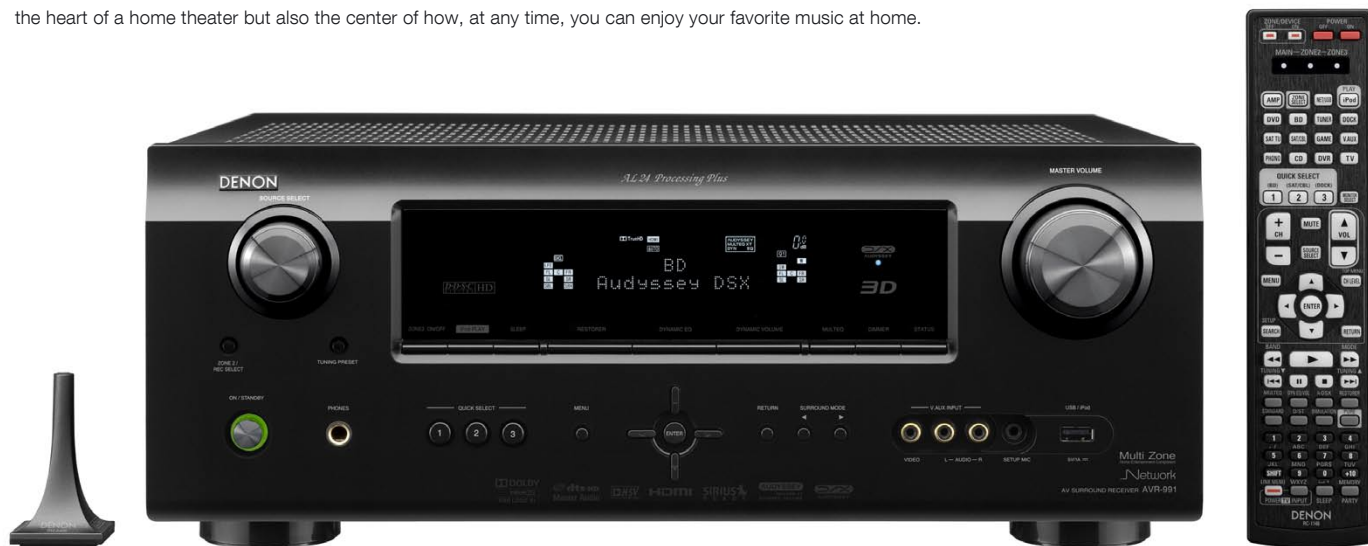


## Immerse yourself in rich 3D video and 3D sound, plus on-line digital content

The AVR-991 A/V receiver, with HDMI version 1.4a, can be connected to a TV and other video devices that support 3D video. This receiver supports not only Dolby TrueHD, DTS-HD Master Audio and other HD Audio formats but also Audyssey DSX for a wide, highly realistic spatial expression at the left and right sides as well as the vertical and horizontal directions at the front, allowing you to experience a truly rich 3D ambience of video and sound. The AVR-991 is also equipped with network functions that let you enjoy a variety of on-line content such as Pandora, Rhapsody, and flickr, making this A/V receiver not only the heart of a home theater but also the center of how, at any time, you can enjoy your favorite music at home.



### Features

#### New Features

- Featuring 3D pass-through technology
- Supports HDMI 1.4a with 3D, Audio Return Channel, Deep Color, "x.v.Color", Auto Lipsync and HDMI control function
- Direct play for iPod® and iPhone® via USB
- Audyssey DSX Processing
- Enhance network capability
  - Internet Radio and network audio/photo streaming via Ethernet
  - Pandora, flickr, Napster and Rhapsody online support
  - 'Party Mode Plus'
  - FLAC HD, High-resolution audio format
  - Compatible with Windows® 7
  - web control
- Newly developed pre memory remote control handset with Glo-Key
- iPod and iPhone playback for Zone 2
- Remote Setup Guidance
- Dual subwoofers preout

#### One-cable HD solution

- Supports HDMI 1.4a with Audio Return Channel
- All sources are up-scaled to 1080P
- 6 x HDMI in / 1 x HDMI out with GUI (Graphical User Interface)

#### State-of-the-art Denon Solutions for Maximizing Content Quality

- Fully discrete, identical quality and power for all 7 channels (165 W x 7ch)
- Stable power supply for high-quality sound and picture playback
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
- High definition audio support, Dolby TrueHD and DTS-HD Master Audio
- Supports Dolby Pro Logic IIz processing
- High-bit I/P Converter and Scaler up to 1080p

#### Connectivity & Future-ready Expandability

- Sirius satellite radio ready
- Power Amp Assign function, for versatility in using the AVR-991 for different purposes
- 2 source / 2 zone capability

#### Ease-of-Use

- On-Board GUI via HDMI output (up to 1080p)
- Audyssey Dynamic Volume, for real-time volume adjustment
- Audyssey MultEQ XT and Auto Setup
- 2-line fluorescent display on front panel
- Sleep timer function

#### Others

- Lower power consumption at stand-by 0.1 W (Standby)



**State-of-the-art Denon Solutions for Maximizing Content Quality**

- Fully discrete, identical quality and power for all 7 channels (165 W x 7 ch)

To faithfully reproduce the original surround sound, each of the AVR-991's 7 channels is equipped with the same power amp of equal power. Since these power amps also use discrete circuits configured with parts strictly selected for their contribution to high sound quality, rather than with low-cost integrated circuits (ICs), the surround sound playback is of impeccably high quality.

- Featuring 3D pass-through technology

By connecting a 3D-compliant Blue-ray disc player and 3D-compliant TV to the AVR-991, you will have a 3D home theater where you can enjoy high-definition sound and video on a level you've never experienced before.

- Supports HDMI 1.4a with 3D, Audio Return Channel, Deep Color, "x.v.Color", Auto Lipsync and HDMI control function

When you connect the AVR-991 to a TV with a single HDMI cable, it supports Audio Return Channel (ARC)<sup>(\*)1</sup> that can play back the TV audio in surround sound. Until now, if you wanted to enjoy surround sound from a TV, you needed to use an optical digital cable or coaxial digital cable to bring sound from the TV to the A/V receiver. The AVR-991's ARC feature, however, helps you keep cable connections neat and out of the way as you build your home theater.

\*1: The TV must also support ARC.

- Dynamic Discrete Surround Circuit, D.D.S.C.-HD

- 32-bit floating point high precision DSP processor  
 - AL24 Processing Plus provides more real sound  
 - high-precision D/A converters

- Clock jitter reducer available for all digital inputs

- High-definition audio support, Dolby TrueHD and DTS-HD Master Audio

- Audyssey DSX processing

Audyssey DSX extends 5.1-channel and 7.1-channel sound sources to a wider and higher dimension. A sound that is wider to the left and right is achieved by adding a sound source (LW/RW) that is wider than the usual placement of the front (FL/FR) speakers, and a greater sense of height in sound space is achieved by adding a sound source (LH/RH) in the upper area between the FL (FR) and LW (RW) channels.

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

- Multi cadence detection for SD and HD video signal  
 The AVR-991 uses a high-performance video up-scaler to convert SD (standard definition) video material to HD (high definition) quality.

- 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.

**Connectivity & Future-ready Expandability**

- 6 x HDMI in / 1 x HDMI out (Repeater)

- Direct play for iPod and iPhone via USB

You can also listen to music files from your iPod by simply connecting it to the AVR-991's USB port with the USB cable that came with the iPod. To start play, just press the iPod Play button on the AVR-991 or its remote control unit. Digital signals from the iPod are transmitted as is to the AVR-991

where they pass through the compressed audio restorer and are processed by advanced audio circuitry to produce a clean, high-quality sound.

- Sirius satellite radio ready
- Power Amp Assign function, for versatility in using the AVR-991 for different purposes

**Ease-of-use**

- On-Board GUI via HDMI output (up to 1080p)

The AVR-991 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.

- Newly developed pre memory remote control handset with Glo-Key
- Remote Setup Guidance
- Three Quick Select buttons
- Auto surround mode
- Sleep timer function
- 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

**Others**

- PC and iPhone setup via Ethernet (web control)
- Multi-Zone Management
- Remote Access & Maintenance
- IP Control

**Ports**

| In                            |  |     |
|-------------------------------|--|-----|
| HDMI                          |  | x 6 |
| Component                     |  | x 2 |
| S-Video                       |  | x 2 |
| Composite (Video)             |  | x 5 |
| Analog Audio (Tuner included) |  | x 9 |
| Digital Optical               |  | x 2 |
| Digital Coaxial               |  | x 2 |
| Out                           |  |     |
| HDMI Monitor                  |  | x 1 |
| Component Monitor             |  | x 1 |
| Composite Monitor             |  | x 1 |
| Composite (DVR/ Zone2)        |  | x 2 |
| Audio Preout (SW)             |  | x 2 |
| Audio Preout (Zone2 L/R)      |  | x 1 |
| Audio REC out                 |  | x 1 |
| Phones                        |  | x 1 |
| Digital Optical               |  | x 1 |
| Other                         |  |     |
| USB port                      |  | x 1 |
| Ethernet                      |  | x 1 |
| Microphone Port               |  | x 1 |
| Dock Control Port             |  | x 1 |
| FM Tuner Antenna              |  | x 1 |
| AM Tuner Antenna              |  | x 1 |
| Sirius connector              |  | x 1 |

**Main Specifications**

| Power amplifier section |   | Preamplifier section        |   |
|-------------------------|---|-----------------------------|---|
| Rated output            | *THD figures are power amp stage values.<br>125 W + 125 W | Input sensitivity/impedance | 200 mV / 47 kΩ/kohms                      |
| Front L/R               | (8 ohms, 20 Hz - 20 kHz, THD 0.08 %)<br>165 W + 165 W     | Frequency response          | 10 Hz - 100 kHz - +1, -3 dB (DIRECT mode) |
| Centre                  | (6 ohms, 1 kHz, THD 0.7%)<br>125 W                        | S/N Ratio                   | 100 dB (IHF-A weighted, DIRECT mode)      |
| Surround L/R            | (8 ohms, 20 Hz - 20 kHz, THD 0.08 %)<br>165 W             | <b>FM section</b>           |   |
| Surround Back L/R       | (6 ohms, 1 kHz, THD 0.7%)<br>125 W + 125 W                | Tuning frequency range      | 87.5 - 107.9 MHz                          |
|                         | (8 ohms, 20 Hz - 20 kHz, THD 0.08 %)<br>165 W + 165 W     | Usable sensitivity          | 1.0 μV (11.2 dBf)                         |
|                         | (6 ohms, 1 kHz, THD 0.7%)<br>125 W + 125 W                | <b>AM section</b>           |   |
|                         | (8 ohms, 20 Hz - 20 kHz, THD 0.08 %)<br>165 W + 165 W     | Tuning frequency range      | 520 - 1710 kHz                            |
|                         | (6 ohms, 1 kHz, THD 0.7%)<br>125 W + 125 W                | Usable sensitivity          | 18 μV                                     |
|                         |   | <b>General</b>              |   |
|                         |   | Power supply                | AC 120 V, 60 Hz                           |
|                         |   | Power consumption           | 670 W (Standby 0.1 W)                     |
|                         |   | Dimensions (W x H x D)      | 17-3/32" x 6-47/64" x 15"                 |
|                         |   |                             | 434 x 171 x 381 mm                        |
|                         |   | Weight                      | 25 lbs, 5.6 oz, 11.5 kg                   |



\*Design and specifications are subject to change without notice.  
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 \*Audyssey MultEQ XT is a registered trademark of Audyssey Laboratories.  
 Audyssey Dynamic EQ is a trademark of Audyssey Laboratories.  
 Audyssey Dynamic Volume™ is a trademark of Audyssey Laboratories.  
 \*\*Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.  
 \*\*\*Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.  
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