

AVR-3312

Integrated Network AV Surround Receiver

100th
Anniversary
since 1910

DENON

Support AirPlay and Network Functions

The AVR-3312 has built-in AirPlay, and includes network functions that let you enjoy a wide variety of on-line digital content. It is also equipped with AL24 Processing Plus and Clock Jitter Reducer technology to dramatically improve sound quality, and a high-performance I/P converter and scaler to give you optimum picture quality. The AVR-3312 has been specifically designed to give you the ultimate experience in today's state-of-the-art home entertainment.



Features

New Features

- AirPlay built in
- Supports "Denon Remote App" to simplify operation by an iPhone/ iPod touch
- Internet Radio and Preset buttons, for quick, easy enjoyment of Internet radio
- Four quick select buttons, quick access to frequently-used video or music sources
- Setup Wizard, providing easy-to-follow setup instructions
- Easy operation, Graphical User Interface with overlay on HD and 3D sources
- 7-HDMI inputs and 2-output (Simultaneous)



*An image of Denon Remote App



*An image of Setup Wizard



*An image of Overlay GUI

- Audyssey DSX processing
- Supports Dolby Pro Logic IIz processing
- Dual subwoofers preout
- Picture Adjust
- I/P Converter and Scaler up to 1080p

Connectivity & Future-ready Expandability

- Enhance network capability⁽¹⁾
 - Internet Radio and network audio/photo streaming via Ethernet
 - Last.fm, Napster and Flickr online support
 - 'Party Mode Plus'
 - FLAC HD, High-resolution audio format
 - Compatible with Windows 7
 - web control
- Direct play for iPod and iPhone via USB
- Power Amp Assign function, for versatility in using the AVR-3312 for different purpose (Surround Back, Front Height, Zone 2, Bi-Amp, Front Speaker B)

Ease-of-Use

- Audyssey Dynamic Volume for real-time volume adjustment
- Audyssey MultEQ XT and Auto Setup

Others

- Lower power consumption at stand-by 0.1 W (Standby)
- Control4, AMX or Crestron third party control support

State-of-the-art Denon Solutions for Maximising Content Quality

- Fully discrete, identical quality and power for all 7 channels (165 W x 7 ch)
- Stable power supply for high-quality sound and picture playback
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
 - AL24 Processing Plus, to dramatically enhance the music listening experience
- Clock Jitter Reduce
- Supports HDMI (V.1.4a with 3D, Audio Return Channel) Deep Color, "x.v.Color", Auto Lipsync and HDMI control function
- High definition audio support, Dolby TrueHD and DTS-HD Master Audio



More Features

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

To faithfully reproduce the original surround sound, each of the AVR-3312's 7 channels is equipped with the same power amp of equal power. Since these power amps also use discrete rcuits 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 Blu-ray disc player and 3D-compliant TV to the AVR-3312, you will have a 3D home theatre where you can enjoy high-definition sound and video on a level you've never experienced before.

• 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 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 to enhance digital music files

Denon's audio technology for MP3, WMA and MPEG-4 AAC compressed format to reproduce higher frequency range and deeper bass sound. This technology provides better sound for internet radio, iPod or iPhone.

• Support AirPlay and Network Functions

When connected to a network, the AVR-3312 can play audio files and still images such as photographs that are stored on your computer. You can also listen to internet radio and a host of other online music sources that use network technology. The AVR-3312 also supports AirPlay that lets you stream your music library from an iPhone, iPad, iPod touch, or iTunes.

• Picture Adjust

You can adjust the picture quality and reduce any noise appearing on the TV. (Contrast, Brightness, Chroma level, Hue, Reduce overall picture noise, Emphasise picture contours)

• 3 source / 3 zone output + 2 dedicated preout

The AVR-3312 lets you enjoy a program source in the Main Zone (the room where the AVR-3312 is located) and in Zone 2 and Zone 3 (another room). The source can be the same for both zones, or you can enjoy different sources in those zones if you prefer. The AVR-3312 even has a separate preamp for Zone 2 or Zone 3 that lets you connect an independent power amp in that room.

• Phono input

• 7.2 ch preout

• 11 ch Speaker terminals

• Digital audio into zone preout

• Zone 2 Video output

• 2-line fluorescent display on front panel

• Pre memory remote control handset with Glow-Key

• Remote Setup Guidance

• Auto surround mode

• Sleep timer function

• Audio Delay function (0 to 200 msec)

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

• Audio level memory, capable of correcting different signal levels for each input device

• Variable subwoofer crossover switching

• Two Trigger outputs (150 mA)

*1) Requires contract with Internet service provider

Main Specifications

Power amplifier section

Rated output	*THD figures are power amp stage values. 125 W + 125 W Front L/R (8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 165 W + 165 W (6 ohms, 1 kHz, THD 0.7%)
Centre	125 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 165 W (6 ohms, 1 kHz, THD 0.7%)
Surround L/R	125 W + 125 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 165 W + 165 W (6 ohms, 1 kHz, THD 0.7%)
Surround Back L/R	125 W + 125 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 165 W + 165 W (6 ohms, 1 kHz, THD 0.7%)

Preamplifier section

Input sensitivity/impedance	200 mV / 47 kohms
Frequency response	10 Hz - 100 kHz - +1, -3 dB (DIRECT mode)
S/N Ratio	102 dB (IHF-A weighted, DIRECT mode)

FM section

Tuning frequency range 87.5 - 108.0 MHz

AM section

Tuning frequency range 522 - 1611 kHz

General

Power supply	230 V, 50 Hz
Power consumption	670 W (Standby 0.1 W, CEC standby 2.2 W)
Dimensions (W x H x D)	434 x 167 x 382 mm
Weight	11.8 kg

Ports

In		
HDMI (included front 1)		x 7
Component		x 2
S-Video		x 2
Composite (video) (included front 1)		x 5
Analog Audio (included front 1)		x 8
Digital Optical		x 2
Digital Coaxial		x 2
Out		
HDMI Monitor		x 2
Component		x 1
Composite Monitor		x 3
Audio Preout (FL/FR/C/SL/ SR/SBL/SBR/SW)		7.2 ch
Audio Preout (L/R)		x 2
Audio Recout (L/R)		x 1
Phones		x 1
Other		
Ethernet		x 1
USB port		x 1
Microphone Port		x 1
Dock Control Port		x 1
FM Tuner Antenna		x 1
AM Tuner Antenna		x 1
Remote Control In/Out		In 1 / Out 1
RC232C		x 1
DC12V 150mA MAX. trigger out		x 2



*Design and specifications are subject to change without notice. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. "DTS" is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc. "HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. "Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. "NSV" is a registered trademark of Analog Devices, Inc. "Audyssey MultiEQ XT" is a registered trademark of Audyssey Laboratories. "Audyssey Dynamic EQ" is a registered trademark of Audyssey Laboratories. "Audyssey Dynamic Volume" is a registered trademark of Audyssey Laboratories. "Made for iPod," "Made for iPhone," and "Made for iPad" are trademarks of Apple Inc., registered in the U.S. and other countries. "AirPlay" is a trademark of Apple Inc., registered in the U.S. and other countries. "iPod", "iPod classic", "iPod nano", "iPod shuffle", "iPod touch" and "iTunes" are trademarks of Apple Inc., registered in the U.S. and other countries.