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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-1913 has a dedicated CPU transformer that is separate from the audio and video circuitry. The AVR-1913 is equipped with a powerful rectifier circuit with 12,000 µF block capacitors and a bridge diode of 8A capacity, surpassing typical models in this price range, to supply stable current with negligible noise.

• High-bit LP Converter and Scaler up to 1080p
The AVR-1913 uses a high-performance video up scaler to convert SD (standard definition) video material to HD (high definition) quality. This means that the 480/576p (SD-quality) video signals of DVD programs and other material are converted to the high-quality 1080p signal of HD video, and output to the HDMI port. The business in the details of SD video is removed to produce a clear picture. Now you can enjoy not only your DVDs but also your VCR tapes and games with much greater clarity and detail.

• Analog to HDMI up-conversion, S/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 HDMI output even when multiple HDMI devices such as a video camera or a game console are connected to the AVR-1913. One HDMI cable is all that's needed to connect the AVR-1913 to a TV monitor.

• Dolby Pro Logic for processing

Dolby Pro Logic 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 II 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 concept 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. Exact mounting of each component 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 windings

• Compressed Audio Restorer to enhance digital music files

Connectivity & Future-ready Expandability

• Power Amp Assign function, for versatility in using the AVR-1913 for different purposes

The AVR-1913 supports up to 7.1 channels (FL, FR, C, SL, SR, SBL, SBR, SBW) for surround playback defined by the Blu-ray disc format. To enjoy surround playback with the AVR-1913's Dolby Pro Logic IIc, you can reassign the power amp from the two surround back channels (SBL/SBR) to the two front high channels (FL/FR). 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-1913 for front bi-amp operation. These are just some of the ways you can arrange the AVR-1913's amps to suit various listening styles.

• Audio/video playback and control for iPod with optional dock (AUD-118)

Ease-of-use

• 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-1913 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

- Three type microphone for more accurate measuring
- Up to six measurement points
- High level resolution filter for satellite speakers and 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

Main Specifications

Power amplifier section	THD figures are power amp stage values	Pre-amplifier section	
Rated output	90 W x 90 W	Rated sensitivity/impedance	200 mV / 16 Ω systems
Front L/R	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %)	Frequency response	20 Hz - 20 kHz ± 1 dB (BEC mode)
	120 W x 120 W	S/N ratio	100 dB (ref. A-weighted, IRE7 mode)
Center	(8 ohms, 1 kHz, THD 0.7 %)	IM section	
	90 W	Tuning frequency range	87.5 - 107.9 MHz
Surround L/R	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %)	Variable sensitivity	1.0 µV (11.4 dB)
	120 W	AM section	
	90 W x 90 W	Tuning frequency range	520 - 1710 MHz
	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %)	Variable sensitivity	10 µV
	120 W x 120 W	Sample	AC 120 V, 60 Hz
Surround Back L/R	(8 ohms, 1 kHz, THD 0.7 %)	Power supply	53 A (Standby 0.3 A)
	90 W x 90 W	Power consumption	434 W (171 x 0.75 min)
	(8 ohms, 20 Hz - 20 kHz, THD 0.08 %)	Dimensions (W x H x D)	17 x 3.5" (430 x 90 x 142.5 mm)
	120 W x 120 W	Weight	35.7 kg
	(8 ohms, 1 kHz, THD 0.7 %)		23 lbs 4.3 oz

Input	HDMI	x 8
	Component	x 2
	S-Video	x 1
	Composite (Video)	x 4
	Analog Audio (Stereo Included)	x 7
	Analog EXT. Input	2 (A/B)
	Digital Optical	x 2
	Digital Coaxial	x 2

Out	HDMI (Monitor)	x 1
	Component Monitor	x 1
	Composite Monitor (DVR)	x 2
	Analog Audio (REC)	x 2
	Analog Audio (Stereo)	x 1
	Audio Preout (S/P)	x 1
	Digital Optical	x 1
	Phono	x 1

*Range and specifications are subject to change without notice.
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Playing a USB memory device

Playing back music or still picture (JPEG) files recorded on a USB memory device.

Important information

- Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on this unit.
- This unit is compatible with USB memory devices in "FAT16" or "FAT32" format.
- This unit is compatible with MP3 files conforming to "MP3-L1 Audio Layer-3" standards.
- File types that this unit can play back and specifications are shown below.

Supported file types	USB memory devices
WMA (Windows Media Audio)	✓ #1
MP3 (MPEG-1 Audio Layer-3)	✓
WAV	✓
MPEG-4 AAC	✓ #2
FLAC (Free Lossless Audio Codec)	✓
JPEG	✓

- #1 USB memory device
- This unit is compatible with MP3 ID3 Tag (Ver. 2) standard.
 - This unit can show the artwork that was embedded by using MP3 ID3 Tag Ver. 2.3 or 2.4.
 - This unit is compatible with WMA META tags.
 - If the image size (greater of an album artwork exceeds 500 x 500 (WMA/MP3)/WAV/FLAC) or 349 x 349 (MPEG-4 AAC), then music may not be played back properly.
- #2 Copyright-protected files can be played on certain portable players compatible with MTP. Content downloaded from pay sites on the Internet are copyright protected. Also, files included in WMA format when copied from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

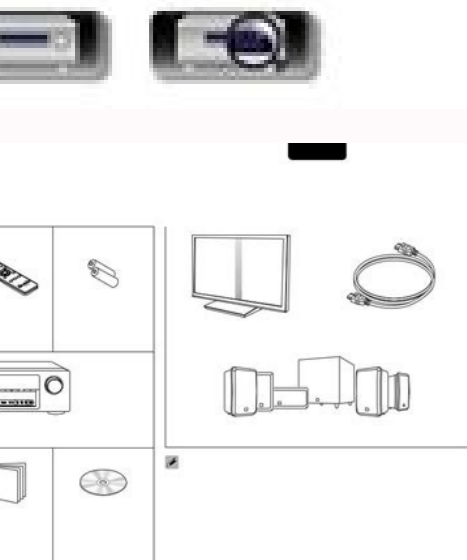
[Compatible formats]	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32kHz, 1.98 kHz	48 - 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32kHz, 1.98 kHz	32 - 320 kbps	.mp3
WAV	32kHz, 1.98 kHz	-	.wav
MPEG-4 AAC	32kHz, 1.98 kHz	16 - 320 kbps	.aac
FLAC (Free Lossless Audio Codec)	32kHz, 1.98kHz, 2056 kHz	-	.flac

Maximum Number of Playable Files and Folder
The limits on the number of folders and files that can be displayed by this unit are as follows.

Media	USB memory devices
Memory capacity	FAT16: 2 GB, FAT32: 2 TB
Number of folder (directory level) #1	8 levels
Number of folders	100
Number of files #2	1000

#1 The listed number includes the root folder.
#2 The allowable number of files may differ according to the USB memory device capacity and the file size.

NOTE
File types that this unit does not support are not displayed.



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