

# AVP-A1HD

AV Surround Pre-Amplifier

# DENON

**Reference Next Generation HD Control Centre featuring Advanced Connectivity, Wi-Fi Network Audio Streaming and Finest Construction and Craftsmanship to bring you the Ultimate A/V Experience.**



## Features

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

- All new circuit layouts that shorten audio and video signal paths for best sound and picture
- Fully separated Audio, Video, Pre-Amplifiers and Power Supplies allow for a cleaner and clearer signal path
- High current two Toroidal Power Supply to drive XLR Pre-amplifier and Analog Audio channels
- THX Ultra2 certified
- Pre-amp, amplifier, and volume control in discrete configuration as a single component
- Discrete Devices for ultimate performance in each circuit block (D.D.S.C.-HD)
- Dolby TrueHD and DTS-HD Master Audio decoders
- Audio DACs in dual differential mode (1 per audio channel) on all output channels
- To preserve original sound quality for the room's acoustics at any volume level, Audyssey Dynamic EQ loudness correction technology
- Realta sXT2 HQV processing for i/p and scaling
- Deep Color (30/36-bit) and "x.v.Color" support
- Discrete construction and circuitry for highest quality video processing
- HDMI to HDMI scaling up to 1080p
- HD/SD video noise reduction functionality

### Connectivity & Future-ready Expandability

- Network Audio and Photo Streaming
- Compressed Audio Restorer to enhance digital music files
- Music streaming from the Rhapsody music service site

### Ease-of-Use

- New user interface for easy operation, setup and digital media browsing (G.U.I.)
- GUI-assisted operation even during 1080p output from HDMI
- Dual HDMI outputs enabling simultaneous output to video projector and flat panel
- Three Analog and One Digital, Four Zone multi-source capability
- Zone 2 OSD with text, Album art is also available
- Web setup, save and load all settings via Ethernet

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

**• Sophisticated Construction for the Ultimate A/V playback**

- 7 individual transformers to supply power to each discrete circuit
- Direct Mechanical Ground to minimize mechanical vibration from transformer and radiators

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

- 3 All New 32-bit floating point DSPs
- Master clock design for more accurate processing and less jitter noise
- Advanced AL24 processing provides more dynamic range
- Audio ADCs in differential mode (2 per audio channel) on all analog input channels
- DSP processing of EXT IN analog audio input is possible. Denon surround modes can also be enjoyed with external input audio signals.

**• Refined calibration technology to improve a acoustical condition of any room.**

- Newly improved Audyssey 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

**• Full 10-bit processing video circuit**

- Multi Cadence Detection for accurate i/p conversion
- 1080/24p pass through
- Analog video to HDMI scaling up to 1080p
- 12-bit/216-MHz video encoder and decoder with NSV

**Connectivity & Future-ready Expandability**

**• Digital Media Connectivity**

**- Network Audio and Photo Streaming**

- Playback and control music files from PC and DLNA Servers
- AAC, WMA , MP3, FLAC, WAV file support
- Connect to over 7,000 internet radio stations
- JPEG Photo slideshow
- Connect to your network via Ethernet or Wi-Fi (802.11 b/g compatible)
- Web system control via any PC on the network

**- iPod audio, photo and video playback (optional ASD-1R/3N/3W)**

- Mass storage support USB for audio and photo playback (MTP compatible)

**Ease-of-Use**

**• Ease-of-Use**

- Album art support (iPod/Network/USB)
- Title text (iPod/Network/USB/XM/HD radio)
- Multi language support
- Remote control unit with GLOW-KEY buttons for easy operation in the dark

**• Multi-Zone Capabilities**

- Digital to analog conversion for multi-zone output
- Analog to digital conversion for multi-zone digital output (only Zone2)
- Zone 2 equipped with dedicated video decoder (+N.S.V.) and encoder
- Independent zone 2 component output
- Dual component outputs for main zone
- BNC connectors for component input/output
- IR Remote in/out ports
- +12V, 250mA trigger x 4 outputs
- RS-232C control x2
- Optional RC-7000CI/7001RCI 2-way control ready

Please see Denon Matching Power Amplifier POA-A1HD



**Main Specifications**

**Pre-amplifier Section**

**Input sensitivity/impedance**

PHONO(MM)	2.5 mV
Audio inputs	RCA (unbalanced) 200 mV/47 kohms XLR (balanced) 400 mV/100 kohms

**Output level/Load impedance**

Audio outputs	RCA (unbalanced) 1.2 V XLR (balanced) 2.4 V
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**General**

Power supply	AC 230 V, 50 Hz
Power consumption	150 W (Standby: 0.3 W)
Dimensions W x H x D	434 x 214 x 485 mm
Weight	27.5 kg

**Input / Output terminals**

IN		OUT	
HDMI	6	HDMI monitor	2
Component	6 (1: BNC)	Component	main monitor 2 (1: BNC) Zone 2 monitor 1
S-Video	8	S-Video	REC 3 Monitor / Zone 2 1 / 1
Composite	8	Composite	REC 3 Monitor / Zone 2 1 / 1 Zone 3 1
XLR	1	Analog preout	9.3 ch XLR (Balanced) 9.3 ch RCA (unbalanced)
Analog audio	10	Analog audio	REC 3 Zone 2 / Zone 3 1 / 1
EXT. In	7.1 ch	Digital optical	REC 2 Zone 2 1 REC / Zone 4 1
Digital OPT	5	Digital optical	Zone 2 1 REC / Zone 4 1
Digital COAX	6 (2: BNC)	Others	Trigger +12 V, 250 mA 4
Denon Link 3rd	1	RS-232C	2
		Control link	1
		Remote IN/OUT	IN 1 / OUT 1
		Ethernet	1
		Wi-Fi (WLAN Antenna)	1
		USB	2
		Dock control	1
		Setup mic	1

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