DENON

A/V Surround Amplifier

AVC-A1XV

The AVC-A1XV incorporates a host of new technologies, circuits, and functions to achieve DENON's ultimate aim for all its amps, which is to recreate the producer's original intent with absolute fidelity. The "New DDSC-Digital" surround processor, developed around DENON's design concepts for high-quality sound reproduction, is now equipped with the latest 32-bit floating-point DSP as well as newly-developed AL24 processing, high-performance 24-bit/192-kHz D/A converter, and other much improved technologies. The AVC-A1XV is also endowed with a wide range of features such as a hefty 10-channel power amp capable of bi-amp drive, new Auto Set-up utilizing multi-point measurement and analysis to support the entire listening area, Room EQ (equalizer), advanced digital audio interfaces including DENON Link and IEEE 1394, support for THX Ultra2, multi-zone system, newly-developed analog video scaler, DVI/HDMI video selector, and full up/down video conversion.

These new technologies, circuits, and features enable the AVC-A1XV to reproduce the original design intent of content producers from a wide range of sources in such areas as surround sound, multi-channel audio, 2-channel stereo, and video.















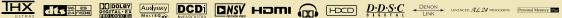




















■ Audio Section

 'New DDSC-Digital,' for dramatically improved processing performance The New DDSC(Dynamic Discrete Surround Circuit)- Digital is a high-quality surround sound reproduction circuit designed by DENON, and forms the core of the design concept that DENON pursues for all its A/V amps: to faithfully reproduce the original intent of content producers. DENON has succeeded in developing a fully discrete design for the New DDSC-Digital in which high-performance ICs are used in independent blocks to form a signal processor that reproduces surround sound, and the discrete design ensures that all channels are endowed with identical response and quality of sound.

-New 32-bit floating point DSP

Three of the latest 32-bit floating point DSPs for the decoder for main zone. A latest-generation 32-bit floating point SHARC DSP for the second zone.

-24-bit/192-kHz D/A Converter

The latest high-accuracy 24-bit/192-kHz D/A converter has been employed for the audio DAC. The AVC-A1XV has 8 of these D/A converters for 16 circuits, achieving differential drive for all 16 channels and digital-to-analog conversion with wide dynamic range at a high S/N.

-High-performance A/D Converter

A high-performance A/D converter of 24-bit/192-kHz quality has been used to significantly boost S/N and dynamic range.

- 'Advanced AL24 Processing,' the latest technology for high sound quality
- DENON Link, enabling high-speed, high-grade digital signal transmission
- IEEE 1394 digital interface
- Large-output Power Amp Section and Power Supply Configuration, for stable high-power output
- · 10-channel power amp, supporting multiple uses

Since the 10 speaker terminals can be assigned to any channel, the AVC-A1XV can be used to enjoy home theater entertainment in the following configurations:

- One dynamic 9.1-channel surround system in a single room
- 5.1-channel theater environments in two different rooms, both operating simultaneously
- Multi-zone system: a 7.1-channel theater in the main room, a 2.1-channel environment in a second room, and a monaural environment in a small third
- "Bi-amp" system: Front (L/R) and Center speakers are bi-wired in a 7.1-channel theater to improve playback quality in the front for enhanced listening enjoyment.
- Stabilized, independent power supplies for each circuit
- · Chassis construction to surpress internal/external vibration
- · Pure Direct mode, for the pure enjoyment of music in high-quality sound
- Variable Gain Volume and Pre-amp
- New Auto Set-up and Room EQ, Featuring Mult EQ XT from Audyssey, for overall listening area support
- Full support for the most advanced surround playback formats
- Dolby Digital EX Dolby Digital Dolby Pro Logic IIx
 Dolby Headphone DTS-ES DTS 96/24
- DTS Neo:6 DTS HDCD
- THX, THX Surround EX, THX Ultra2 Certified
- Original surround modes from DENON
- Video Section
- Newly-developed video circuitry, for high picture quality
 - -HDMI/DVI digital video I/O terminals
 - -Component video switching
 - -Video up/down conversion
 - -I/P conversion and scaling
 - -High-speed, high-accuracy 12-bit/216-MHz video DAC
 - -TBC (Time Base Correction) technology is used
 - when converting composite video or S-video signals to component video

■ Expandability

- Analog EXT IN terminal
- 4-zone, multi-room support
- Ethernet and RS-232C terminals

■ Other Functions

- · Auto Surround Back Channels ON function, for auto-detection of supporting sources
- Auto Surround mode
- New design and ease-of-use
 - -Front panel's large display.
- -A cursor key and Butons on the front panel
- EL remote controller for easy operation
- On-screen display, for easier, error-free operation
- Variable subwoofer crossover switching (40/60/80/90/100/110/120/150/200/250 Hz)
- Muting level settings (∞ /-40dB/-20db)
- Audio Delay function (max. 6 frames)



■ Input/Output Terminals For Every A/V System

•	Audio	Inputs	

13 Sets Analog Inputs PHONO, CD, (TUNER), CDR/TAPE, DVD, VDP, TV, DBS, VCR-1, VCR-2, VCR-3, VCR-4, V.AUX(FRONT),

1 Set 10-ch Analog EXT. Input FRONT I /R CENTER

SURROUND (A) L/R, SURROUND (B) L/R,

SURROUND BACK L/R, SUBWOOFER

FRONT L/R, CENTER, 1 Set 6-ch Analog EXT. Input

SURROUND L/R, SUBWOOFER

. OPTICAL x6 (incl. FRONT x 1) 12 Sets Digital Input COAXIAL x6

Denon Link x1

 Audio Outputs 10 Sets Analog PRE Output FRONT L/R, CENTER,

SURROUND(A) L/R, SURROUND(B) L/R, SURROUND BACK L/R, SUBWOOFER 5 Sets Analog REC Output VCR-1, VCR-2, VCR-3, VCR-4,CDR/TAPE 3 Set Analog Multi Zone PRE Output... ZONE2 L/R, ZONE3 L/R, ZONE4 L/R

3 Sets Digital Output OPTICAL x3 Video Inputs

6 Sets Component Video Input VIDEO-1, VIDEO-2, VIDEO-3, VIDEO-4, VIDEO-5 9 Sets S-Video Input DVD, VDP, TV, DBS, VCR-1,

VCR-2, VCR-3, VCR-4, V.AUX(FRONT) 9 Sets Composite Input DVD, VDP, TV, DBS, VCR-1,

VCR-2, VCR-3, VCR-4, V.AUX(FRONT)

Video Outputs

3 Set Component Video Output MONITOR x3 (incl. 1 set for ZONE2)

VCR-1, VCR-2, VCR-3, VCR-4, MONITOR, 7 Sets Composite Output

...... ZONE2, ZONE3

■ Specifications

Power Amplifier Section

Rated output	*THD figures are power amp stage values.	
Front	. 170 W + 170 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	220 W + 220 W	(6 ohms, 1 kHz, 0.7 % THD)
Center	. 170 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	220 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround (A, B)	. 170 W + 170 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	220 W + 220 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround Back	. 170 W + 170 W	(8 ohms, 20 Hz - 20 kHz, 0.05 % THD)
	220 W + 220 W	(6 ohms, 1 kHz, 0.7 % THD)

Preamplifier Section

Analog

Input sensitivity / imepdance 200mV/47kohms

S/N 105dB(Direct mode)

Rated output 1 2V Digital

D/A output 2.0V

Phono

Input sensitivity / impedance 2.5mV RIAA deviation+/-1dB(20Hz to 20kHz)

Video Section

Frequency response

Composite video/S-video 5Hz-10MHz (+0,-3dB)

Component video 5Hz-100MHz (+0,-3dB)

General

Power supply AC230V, 50Hz

Power consumption 850 W

Weight 44.0kg



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