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 room.
    - “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.

- **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
- New design and ease-of-use
  - Front panel's large display
  - A cursor key and buttons 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 (-∞ to -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 L/R, CENTER, SURROUND (A) L/R, SURROUND (B) L/R, SURROUND BACK L/R, SUBWOOFER
  - 1 Set 6-ch Analog EXT. Input .......... FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
  - 12 Sets Digital Input ................... OPTICAL x6 (incl. FRONT x 1), COAXIAL x 6, Denon Link x 1

- 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 x 3

- 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)
  - 7 Sets S-Video Output ................. VCR-1, VCR-2, VCR-3, VCR-4, V.AUX (FRONT)
  - 7 Sets Composite Output ............... VCR-1, VCR-2, VCR-3, VCR-4, MONITOR, ZONE2, ZONE3

Specifications

- Power Amplifier Section
  - Rated output
    - 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 / impedance .......... 200mV/47kohms
    - Frequency response....................... 10Hz-100kHz: +0,-3dB (Direct mode)
    - S/N 105dB (Direct mode)
    - Rated output .................................. 1.2V
  - Digital
    - D/A output ...................................... 2.0V
  - Phono
    - Input sensitivity / impedance .......... 5mV
    - RIAA deviation ............................... +/-1dB (20Hz to 20kHz)
    - Rated output .................................. 150mV

- Video Section
  - Frequency response
    - Composite video/S-video ............... 5Hz-100MHz (+0,-3dB)
    - Component video .......................... 5Hz-100MHz (+0,-3dB)

- General
  - Power supply .................................. AC230V, 50Hz
  - Power consumption ........................ 850 W
  - Dimensions .................................... 434 (W) x 280 (H) x 505 (D) mm
  - Weight ........................................... 44.0kg

*Design and specifications are subject to change without notice.

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