AVR-3806



Latest DSP technology employed in DENON's critically acclaimed D.D.S.C-Digital circuitry for the finest in multi-channel audio performance





































■ '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.

■ High-Quality Sound Reproduction

- New High Resolution 32bit Floating Point DSP
- 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

• 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.

■ DENON LINK multi channel digital audio input

The AVR-3806 incorporates DENON LINK 3rd Edition, this new edition now allows the input of uncompressed Super Audio CD digital signals as well as DVD-Video/Audio. To transfer high resolution, multi-channel digital audio signals, DENON has developed a unique digital transmission technology, known as DENON LINK. This digitally balanced transfer technology permits jitter-less data transfer and ultra-low noise. The AVR-3806 incorporates this latest digital audio interface, so the end user will experience the absolute finest in audio playback

■ HDMI In/Out Terminals and Repeater Function

between the AVR-3806 and a DENON LINK featured DVD player.

The AVR-3806 is equipped with 2 HDMI inputs, as well as 1 output, allowing the selection of multiple digital video signals. The HDMI terminals also accepts multichannel digital audio input and the input signals can be output via amps

■ Video Conversion to HDMI

This video transcoding technology lets you enjoy highest picture quality from all video gear connected to the AVR-3806.

- Composite <-> S-Video
- S-Video <-> Component
- Composite <-> Component
- Composite/S-Video/Component -> HDMI

•3 Sets of Component Video Inputs

The AVR-3806 is equipped with 3 sets of assignable, component video inputs and 2 set of monitor outputs. Component video signals can be output simultaneously via these 2 component output terminals

•High Definition Quality Video Switching

The high-performance selector that is used to switch component video signals, features an extended bandwidth range up to 100 MHz.

■ Auto Set-up and Room EQ featuring Audyssey MultEQ, for overall listening area support

The AVR-3806 includes an Auto Set-up function that performs basic settings for the speakers based on frequency response data for the speakers and the listening room that was measured by a supplied high-performance microphone, and a Room EQ (equalizer) function that optimizes frequency response characteristics for the listening room. The AVR-3806 is also capable of obtaining data for up to 6 listener positions which it analyzes using Audyssey's newly-formulated algorithms, and performs equalization to match the overall listening area and create an ideal home theatre environment.

■ Fully Discrete Equal Power 7 Amplifier Channels 120 Watts Each

a rully biscrete, Equal rower 7 Amplifier Charmers, 120 Watts Each		
Front	120 W +120 W	(8 ohms, 20Hz - 20kHz, 0.05 %THD)
Center	120 W	(8 ohms, 20Hz - 20kHz, 0.05 %THD)
Surround	120 W +120 W	(8 ohms, 20Hz - 20kHz, 0.05 %THD)
Surround back	120 W ±120 W	(8 ohms 20Hz - 20kHz 0 05 %THD)

■ Designed for high sound quality

- · Hefty Power Transformer for Stable Supply of Power
- · large-capacity Block Capacitor
- Detachable AC Power Cord

■ Support for Multi Zone Configurations

The AVR-3806 provides a Multi Zone Output function and a Select function that let you output different sources to multiple zones. Sources can be selected for output to an additional zones, in addition to the main room. Zone 2 can have variable pre-amp output along with a composite video/S-Video feed. And an independently selected audio source can be output to Zone 3 with a fixed pre-amp output. The AVR-3806's Power Amplifier Assign function lets you assign the 2 Surround Back (SB L/R) amplifier channels when the system is not configured for 7.1, to drive the Zone 2, or 3 speakers, with 120 Watts per channel output power, while still providing 5 discrete amplifier channels to drive all speakers in a 5.1 configured home theater room. With this Power Amplifier Assign function, Front speakers can be bi-wired to improve playback quality in the front for enhanced listening enjoyment.

- +12 V Trigger Output x2 (Assignable)
- Remote In/Out Ports
- RS232C Control Port to support an AMX, Crestron integrated control system

■ DENON's Latest Surround Technology Faithfully Recreates the Surround Sound Produced at the Dubbing Stage.

- DTS 96//24 Decoding for DVD-Video DTS-ES Discrete 6.1 and Matrix 6.1
- DTS NEO:6 Dolby Digital EX Dolby Pro Logic IIx
- Auto Surround Mode

■ XM Satellite Radio Ready with optional 'Connect and Play' antenna*

Subsciption to XM services also required.

■ New EL Backlight Touch Panel Remote

AVR-3806

■ 1 Set of 8-Channel External Analog Inputs

■ Variable Gain Volume

S/N in the useable area has been improved. Finer adjustments are also possible in 0.5 dB steps across the extended range of –80 dB to +18 dB.

■ Adjustable Cross-Over Switching for Subwoofer

(40, 60, 80, 90, 100, 110, 150, 200 and 250 Hz)
■ A/B switching between surround speakers

■ High-grade 7 Channel Speaker Terminals (all ch)

■ Audio Delay Function

■ Pure Direct mode, for the pure enjoyment of music in high-quality sound

■ Night Mode for not disturbing others

■ Input Function Level

■ REC OUT Selector

■ 3 User mode buttons

■ 56-Station AM/FM/XM Random Preset Memory Tuning

■ Auto Preset Memory (AM/FM)

■ AC Inlet

■ RS-232C Port

■ Front Panel Inputs (with S-Video, Digital Optical Input)



Input/Output Terminals For Every A/V System

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

8 Analog EXT. Inputs
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
6 Digital Inputs
OPTICAL x 5 (Incl. FRONT x 1)
COAXIAL x 2

Audio Outputs
1 Analog PRE OUT Terminals

7.1 ch
3 Analog REC OUT Terminals

3 Analog REC OUT Terminals
VCR-1, VCR-2, CDR/TAPE
2 Digital Output
OPTICAL x 2

Video Inputs
3 Component Video Inputs
VIDEO1, VIDEO2, VIDEO3
7 Composite Inputs
DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX(FRONT)
7 S-Video Inputs

7 S-Video Inputs
DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX(FRONT)

DVD, VDP, TV, DBS, VCR-1, VC
2 HDMI inputs('1)('2)

Video Outputs
2 sets of Component Video Output
MONITOR-1, MONITOR-2
3 Composite Outputs
VCR-1, VCR-2, MONITOR
3 S-Video Outputs
VCR-1, VCR-2, MONITOR
1 HDMI Output

(*1) Version 1.1 compliant. HDMl audio output capacity is dependent on the monitor being used.

(*2) No signal is output when a device with HDCP-compliant DVI output is connected to a display that does not support HDCP. A display supporting HDCP must be connected in order to view images via DVI.

Specifications

Power Amplifier Section
Rated output *THD figures are power amp stage values.
Front 120 W + 120 W (8 ohms, 20 Hz - 20 kHz, 0.05 % THD) (6 ohms, 1 kHz, 0.7 % THD) (6 ohms, 20 Hz - 20 kHz, 0.05 % THD) (6 ohms, 20 Hz - 20 kHz, 0.05 % THD) (6 ohms, 1 kHz, 0.7 % THD) (8 ohms, 20 Hz - 20 kHz, 0.05 % THD) (6 ohms, 1 kHz, 0.7 % THD) 160 W + 160 W Center 120 W 160 W Surround 120 W + 120 W 160 W + 160 W Surround Back 120 W + 120 W

(8 ohms, 20 Hz - 20 kHz, 0.05 % THD) (6 ohms, 1 kHz, 0.7 % THD)

160 W + 160 W

Preamplifier Section
Input sensitivity/Impedance

PHONO(MM) 2.5 mV/47 kohms
CD, DVD/VDP, TV/DBS, VCR-1, VCR-2, CDR/TAPE, V.AUX(FRONT)
200 mV/47 kohms

Output level/Load impedance

1.2 V/10 kohms

Output leve/Load impedance
SUBWOOFER
CDR/TAPE, VCR-1, VCR-2
Frequency response
Signal-to-noise ratio
FM Section
Tuning frequency range 1.2 v 10 kDillis 200 mV/47 kohms 10 Hz - 100 kHz (+1, -3 dB) (Direct mode) 102 dB (IHF-A weighted) (Direct mode)

Tuning frequency range Usable sensitivity 1.0 μV (11.2 dBf) AM Section 520 - 1710 kHz Tuning frequency range

Usable sensitivity

AC 120 V, 60 Hz

Power supply
Power consumption
Dimensions 7.1 A 17-3/32" (W) x 6-47/64" (H) x 16-57/64" (D) 434 (W) x 171 (H) x 429 (D) mm 38 lbs 9.30 oz

Weight

17.5 kg





*Design and specifications are subject to change without notice.

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