

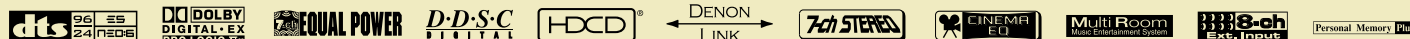
DENON

A/V Surround Receiver

AVR-3805

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

D.D.S.C-Digital (Dynamic Discrete Surround Circuit) is a circuit configuration designed by DENON in which all elements of the Surround Processor are optimized to the highest standards by the use of selected high performance and discrete components, particularly the A/D and D/A converters and the sophisticated DSP surround decoder. DENON has developed with Analog Devices, a new 32-bit Floating Point DSP processor for decoding and processing the various digital signals with the highest level of accuracy, so this new D.D.S.C-Digital circuit will provide the ultimate in multi-channel performance.



■ DENON LINK multi channel digital audio input

The AVR-3805 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-3805 incorporates this latest digital audio interface, so the end user will experience the absolute finest in audio playback between the AVR-3805 and a DENON LINK featured DVD player.

*The 3rd Edition for DVD/Super Audio CD output for DVD players is currently awaiting verification.

■ Component Video Conversion

• High-grade Up Conversion

This video transcoding technology lets you enjoy highest picture quality from all video gear connected to the AVR-3805. Since composite and S-video signals are converted up to component video signals and output to the monitor, all you need to do is connect a monitor that can display component video images.

• 3 Sets of Component Video Inputs

The AVR-3805 is equipped with 3 sets of assignable, component video inputs and 1 set of monitor outputs (all RCA terminals)

• High Definition Quality Video Switching

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

■ Auto Setup and Room EQ Function with Optional Microphone

The AVR-3805 is equipped with an Auto Setup and Room Equalization function, to achieve the most ideal sound field for your room. With the optional microphone placed at your listening position, the powerful new 32bit floating point DSP automatically and accurately analyzes, adjusts and sets the speaker configurations of your system. Also, the AVR-3805 analyzes and adjusts the frequency response of the speakers to the room with an 8 band parametric equalizer. The optional microphone (DM-S305) is a specially designed, high performance unit with a heavy duty base to suppress vibrations for accurate analyzing.

■ Pure Direct and AL24 Processing Plus

DENON's Pure Direct mode was designed for those who want the ultimate in sonic quality from their audio sources. Depending on input signal type, Pure Direct will turn off any unneeded circuitry of the AVR-3805.

- When listening to PCM based sources, DENON's waveform technology AL24 Processing Plus brings out all the delicate nuances of the source material.

■ New EL Backlight Touch Panel Remote

The AVR-3805's remote controller is a completely new design, focusing heavily on ease of use. It features Electro-Luminescence technology which offers sophisticated design and extraordinary control. This remote will automatically activate the backlighting when the user picks the remote up.



DVD Player Commands

AVR Commands

■ Fully Discrete, Equal Power Seven Amplifier Channels, 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)

The AVR-3805 features an equal power 7-channel amplifier section, with identical amplifier design featuring high current discrete output devices on all 7 channels. Each of the 7 amplifier channels is rated at 120 watts, into 8 ohms, from 20 Hz - 20 kHz with no more than 0.05% THD.

■ Designed for high sound quality

• Hefty Power Transformer for Stable Supply of Power

A huge power transformer has been connected in the power section where it is combined with a rectifier diode and an oversized block capacitor to ensure a large, stable supply of electrical current. Accordingly, this design allows the AVR-3805 to achieve high output power of 120 W for each of the 7 channels.

• Block Capacitor

A large-capacity block capacitor was developed for the AVR-3805 to ensure a rock stable supply of power.

• Detachable AC Power Cord

Support for Multi Zone Configurations

The AVR-3805 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. Multi-room Zone 2 can have variable pre-amp output along with a composite video feed. And an independently selected audio source can be output to Multi-room Zone 3 with a fixed pre-amp output. The AVR-3805'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 instead drive the Multi-room 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.

+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

The AVR-3805 can automatically store the surround mode for any of four inputs signals: (1) Analog and PCM 2 channel, (2) Bit stream 2-channel (Dolby Digital, DTS) and (3) Bit stream multi-channel and (4) DENON LINK multi-channel. If the type of input signal changes, the most appropriate surround mode is automatically selected for the signal.

Other Features That Enhance Operating Ease

1 Set of 8-Channel External Analog Inputs

New Front Panel Design with Trap Door

Larger display area is now capable of displaying a broad range of information including character icons for an intuitive recognition of input signal channels and output speaker channels.

All settings can now be made using the controls on the main unit.



Audio Delay Function

The Audio Delay function corrects slight lags between sound and picture that can occur when a video signal is processed, such as in a Progressive Scan DVD player or outboard video processor.

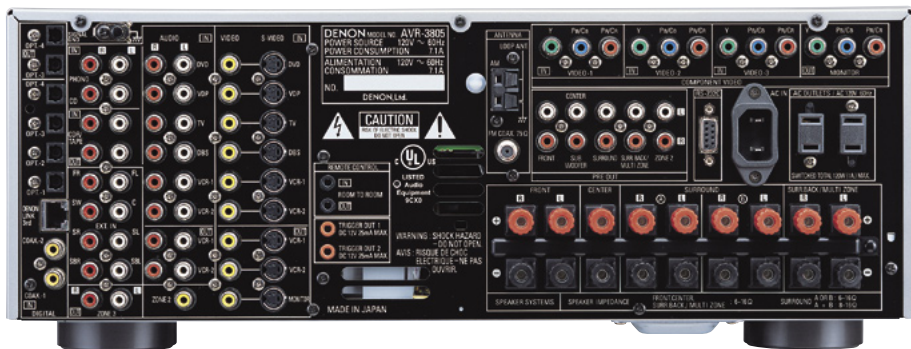
Variable Gain Volume

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

The AVR-3805 supports subwoofer cross-over switching with a choice of 8 cross-over frequencies: 40, 60, 80, 100, 120, 150, 200 and 250 Hz. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

A/B switching between surround speakers



Frequency Synthesis Tuning

56-Station AM/FM Random Preset Memory Tuning

Auto Preset Memory

Input/Output Terminals For Every A/V System

Audio Inputs

11 Analog Input	PHONO, CD, (Tuner), DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX(FRONT), CDR/TAPE
8-ch Analog EXT. Input	FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
5 Digital (Optical) Input	OPTICAL x 5 (FRONT x 1) (Assignable)
2 Digital (Coaxial) Input	COAXIAL x 2 (Assignable)
1 Denon Link	Denon Link (Assignable)

Audio Outputs

8 Analog PRE Output	FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
3 Analog REC Output	VCR-1, VCR-2, CDR/TAPE
1 Analog Multi Zone PRE Output	ZONE 2 L/R
1 Analog Multi Zone Output	ZONE 3 L/R
2 Digital (Optical) Output	OPTICAL x 2

Video Inputs

3 Component Video Input	VIDEO-1, VIDEO-2, VIDEO-3
7 Composite Input	DVD, VDP, TV, DBS, VCR1, VCR2, V.AUX(FRONT)
7 S-Video Input	DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX(FRONT)

Video Outputs

1 Component Video Output	MONITOR
3 Composite Output	VCR-1, VCR-2, MONITOR
3 S-Video Output	VCR-1, VCR-2, MONITOR
1 Multi Zone Composite Video output	ZONE 2 VIDEO x1

Specifications

Power Amplifier Section

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

Preamplifier Section

Input sensitivity/impedance	
PHONO(MM)	2.5 mV/47 kohms
CD, DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX, CDR/TAPE	200 mV/47 kohms
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER	200 mV/15 kohms

Output level/Load impedance	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUB WOOFER	
MULTI ZONE L/R	1.2 V/10 kohms
VCR-1, VCR-2, CDR/TAPE	200 mV/47 kohms
Frequency response	10 Hz - 100 kHz; +0, -3 dB
Signal-to-noise ratio	102 dB
RIAA deviation	± 1 dB (20 Hz - 20 kHz)
Tone control	Treble: ± 6 dB, Bass: ± 6 dB

FM Section

Tuning frequency range	87.5 - 107.9 MHz
Usable sensitivity	1.0 µV (11.2 dBf)

AM Section

Tuning frequency range	520 - 1710 kHz
Usable sensitivity	18 µV

General

Power supply	AC 120 V, 60 Hz
Power consumption	7.1 A
Dimensions	434 (W) x 171 (H) x 429 (D) mm
	17.1" (W) x 6.7" (H) x 16.9" (D)
Weight	17.0 kg, 37 lbs 8 oz

*Black version is available.



*Design and specifications are subject to change without notice. "Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX", and the double-D symbol are trademarks of Dolby Laboratories. *DTS, "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater System, Inc. *HDCD, High Definition Compatible Digital and Microsoft are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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