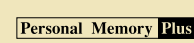
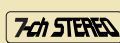


A/V Surround Receiver

**AVR-3803****DENON****Dolby Digital EX / DTS-ES and DTS 96/24 with 7ch Power Amps and Multi-room Flexibility**

Dolby Digital EX and dts 96/24 have been added to offer full support for all encoded surround formats, and the D.D.S.C has been vastly improved through the use of the new Analog Devices Melody 100 DSP processor. The AVR-3803 is the first receiver in its class to offer component video conversion for increased flexibility and ease of installation.



■ **Fully Discrete, Equal Power Seven Amplifier Channels, 110 Watts Each**

Front	110 W + 110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Center	110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround	110 W + 110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)
Surround back	110 W + 110 W	(8 ohms, 20Hz - 20kHz, 0.05 % THD)

The AVR-3803 features an equal power 7-channel amplifier section, with identical amplifier design on all 7 channels, with high current discrete output devices on all channels. Each of the 7 amplifier channels is rated at 110 watts, into 8 ohms, from 20 Hz - 20 kHz with no more than 0.05% THD.

■ **Finest DSP employed for faster processing in the D.D.S.C-Digital circuitry and higher sound quality**

• Melody 100 DSP

Melody 100, the latest DSP from Analog Devices, is used for the decoder to further boost digital signal processing capability and also providing the highest dynamic range. Faster processing speed results in more complete surround decoding.

• 24-bit, 192-kHz All-channels D/A Conversion

For optimum fidelity and transparency, the AVR-3803 features the Burr-Brown PCM-1791 high resolution 24-bit, 192 kHz DACs, in an eight channel.

• 24-bit, 192-kHz Digital Interface Receiver

The AVR-3803 includes a Digital Interface Receiver (DIR) that distinguishes various types of digital input signals, including 24/192 and 24/96 stereo PCM signals, performs the appropriate signal processing, and transmits the information to the DSP block.

• 24-bit, 192-kHz A/D Conversion

The AVR-3803 is capable of 24-bit, 192-kHz A/D conversion, improving S/N and dynamic range by approximately 10 dB.

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

• DTS 96/24 5.1 Decoding for DVD-Video

High-quality 96-kHz, 24-bit (96/24) sound playback from ordinary DVD-Video recordings is limited to only two channels and there are also limitations on the picture. DVD-Video recorded in DTS 96/24, however, allows high-quality 5.1-channel sound playback in full-quality, full-motion video.

• DTS-ES Discrete 6.1 and Matrix 6.1

The AVR-3803 is equipped with a DTS-ES decoder that supports Discrete 6.1 and Matrix 6.1. Discrete 6.1 faithfully reproduces program sources originally recorded in 6.1-channel sound, and Matrix 6.1 performs matrix processing on the Left Surround and Right Surround signals and brings out Back Surround channels.

• DTS NEO:6

DTS NEO:6 lets you enjoy 2-channel analog, PCM, and Dolby Digital 2-channel sources in full 6.1-channel surround sound.

• Dolby Digital EX

Dolby Digital EX, a 6-channel surround format proposed by Dolby Laboratories, was jointly developed by Dolby Laboratories and LucasFilm Ltd. to bring the dynamic wealth of Dolby Digital Surround EX into the home. The warm playback of 6.1 channels which include surround back channels enables easy positioning of sound images directly behind the listener, dramatically improving the spatial expressiveness of the surround field.

• Dolby Pro Logic II

With the AVR-3803, you can use Dolby Pro Logic II to do more than just enjoy your 2-channel analog, PCM, and Dolby Digital 2-channel sources in surround sound ambiance.

• Auto Surround

The AVR-3803 can automatically store the surround mode for any of four input signals: (1) Analog and PCM 2 channel, (2) Bit stream 2-channel (Dolby Digital, DTS) and (3) Bit stream multi-channel. If the type of input signal changes, the most appropriate surround mode is automatically selected for the signal.

■ **Component Video Conversion, the first time in this class**

• High-grade Up Conversion

The AVR-3803 is the first model in the mid price range to include the Video Up Conversion feature that converts video signals to component signals, letting you enjoy high picture quality from all video gear connected to the AVR-3803. Since composite and S-video signals are also converted into component video signals and output to the monitor, all you need to do is connect a monitor that can display component video images.

• Broad frequency range up to 100 MHz

The AVR-3803 is equipped with 2 sets of component inputs and 1 set of monitor outputs (all RCA terminals). A high-performance relay is used to switch signals, and a high frequency range up to 100 MHz is supported.

### ■ Pure Direct mode which is equipped with AL24 processing, to enjoy purely stereo music with high sound quality

The Pure Direct mode lets you use the AVR-3803 as a high sound quality stereo amplifier. A simple key operation on the main unit to select Pure Direct automatically turns off power to the video circuitry and the fluorescent lights also go off to thoroughly minimize adverse influences from these circuits on the audio circuit. During analog audio input, power to the digital circuitry is also turned off. Furthermore, Denon's AL24 processor for high sound quality has been added to the front 2 channels during digital audio input, enabling the playback of sound with remarkably high transparency.

### ■ 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 a large block capacitor to ensure a large, stable supply of electrical current. Accordingly, the AVR-3803 boasts high output power of 110 W for each of the 7 channels.

- Newly-developed block capacitor

A new, large-capacity block capacitor was developed for the AVR-3803 to ensure a rock stable supply of power.

### ■ Newly redesigned pre-programmed remote controller with learning feature

The AVR-3803 comes with a newly-developed remote controller with the most frequently used keys layed out in the center and an easy-to-grip shape and size. It also has a small liquid crystal display that lets you quickly identify which devices you are controlling at a glance.

- Preset Memory
- Learning functions
- System Call
- All keys backlit
- Supports independent Power On and Off commands

### ■ Support for Multi Zone Configurations

- The AVR-3803 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 zone, in addition to the main room. Multi-room Zone 2 can have variable pre-amp output along with composite video feed. The AVR-3803'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 speakers, with 110 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
- Serial Control Port to support an AMX, Crestron integrated control system

### ■ Other features that enhance operating ease

- Audio Delay Function  
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-3803 supports subwoofer cross-over switching with a choice of 5 cross-over frequencies: 40, 60, 80, 100, and 120 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

- 40-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, CDR/TAPE
1 8-ch Analog EXT. Input .....	FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
5 Digital (Optical) Input .....	OPTICAL X 5 (Assignable)
2 Digital (Coaxial) Input .....	COAXIAL x 2 (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 .....	L/R
2 Digital (Optical) Output .....	OPTICAL x 2

#### ■ Video Inputs

2 Component Video Input.....	Component IN VIDEO1,2
7 Composite Input .....	DVD, VDP, TV, DBS, VCR1, VCR2, V.AUX
7 S-Video Input .....	DVD, VDP, TV, DBS, VCR-1, VCR-2, V.AUX

#### ■ 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 Video output.....	Composite x1

### Specifications

#### ■ Power Amplifier Section

Rated output	*THD figures are power amp stage values.
Front .....	110 W + 110 W (8 ohms, 20Hz - 20kHz, 0.05 % THD) 150 W + 150 W (6 ohms, 1 kHz, 0.7 % THD)
Center.....	110 W (8 ohms, 20Hz - 20kHz, 0.05 % THD) 150 W (6 ohms, 1 kHz, 0.7 % THD)
Surround.....	110 W + 110 W (8 ohms, 20Hz - 20kHz, 0.05 % THD) 150 W + 150 W (6 ohms, 1 kHz, 0.7 % THD)
Surround back .....	110 W + 110 W (8 ohms, 20Hz - 20kHz, 0.05 % THD) 150 W + 150 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: ± 10 dB, Bass: ± 10 dB

#### ■ FM Section

Tuning frequency range .....	87.5 - 107.9 MHz
Usable sensitivity.....	1.0 $\mu$ V (11.2 dBf)

#### ■ AM Section

Tuning frequency range .....	520 - 1710 kHz
Usable sensitivity.....	18 $\mu$ V

#### ■ General

Power supply .....	AC 120 V, 60 Hz
Power consumption.....	7.0 A
Dimensions.....	434 (W) x 171 (H) x 416 (D) mm 17.1" (W) x 6.7" (H) x 16.4" (D)
Weight .....	16.5 kg, 36.4lbs



\*Design and specifications are subject to change without notice.

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\*DTS, "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater System, Inc.

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