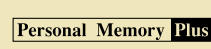


DTS-ES and Dolby Digital EX A/V Receiver

DENON**AVR-1803****DTS-ES Discrete 6.1 and Dolby Digital EX with Power Amps for 6 Channels**

The AVR-1803 is equipped with 6 amplifiers of equal power, one for each channel, in a discrete configuration for total accuracy when reproducing sound from demanding DTS-ES and Dolby Digital EX sources. The Dolby Pro Logic II feature lets you hear 2-channel stereo sources in realistic 5.1-channel surround sound.



■ Fully Discrete, Equal Power Six Amplifier Channels

| | | |
|-------------------|-------------|-----------------------------------|
| Front | 80 W + 80 W | (8 ohms, 20Hz - 20kHz, 0.08% THD) |
| Center | 80 W | (8 ohms, 20Hz - 20kHz, 0.08% THD) |
| Surround | 80 W + 80 W | (8 ohms, 20Hz - 20kHz, 0.08% THD) |
| Surround Back.... | 80 W | (8 ohms, 20Hz - 20kHz, 0.08% THD) |

All six power amplifier channels feature discrete power output devices, and all six amplifier channels provide equal power with lowest distortion. Each channel is rated at 80 watts, into 8 ohms, from 20 Hz - 20 kHz, with no more than 0.08% THD. A hallmark of Denon A/V component design, the equal power amplifier provides outstandingly accurate reproduction of motion picture soundtracks and multi-channel music programs.

■ Single-Channel Surround Back Power AMP for 6.1 Surround and 2 Speaker Terminals for 7.1 Surround

The AVR-1803 is equipped with a total of 6 power amps including one for the Surround Back speaker to give you more clearly defined sound localization at the rear for 6.1-channel surround sources such as DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, Dolby Digital EX, and DTS-ES NEO:6. The AVR-1803 also provides you with 2 speaker terminals for the Surround Back channels, allowing for the ultimate home theater experience in amazing 7.1-channel Surround, when a second power amplifier is added.

■ High Power Custom Transistor

When temperatures rise or fall inside the unit, bias current values supplied to the power transistor tend to fluctuate, causing sound quality to deteriorate. The high power custom transistor used in the AVR-1803 ensures that the bias current is constantly uniform so that the sound you hear is of consistently stable, high quality.

■ High-quality DSP

A high-quality 32-bit DSP "MELODY32" from Analog Devices processor has been used in the DSP processor, placing the AVR-1803 at a higher rank than other models of this class in its ability to accurately decode and reproduce the superior quality of DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS NEO:6, Dolby Digital EX and Dolby Pro Logic II.

■ Featuring DTS-ES Discrete 6.1 Decoding

The AVR-1803 is equipped with the DTS-ES (true discrete) 6.1 decoder, developed by DTS to provide dramatically improved surround sound panoramic reproduction and superior surround sound localization.

■ Supports DTS-ES Matrix 6.1 Decoding

■ Supports DTS NEO:6 Surround Decoding

■ Featuring Dolby Pro Logic II Decoding

Enjoy 2-channel stereo recordings in stunning 5.1-channel surround playback. The Dolby Pro Logic II decoder reproduces dynamic 5.1-channel surround sound not only from normal 5.1-channel DVD but from 2-channel sources such as videos and CDs, too. Dolby Pro Logic II uses matrix decoding technology that has been dramatically improved over Pro Logic.

■ High-quality Component Video In/Out Terminals

The AVR-1803's Component Video terminals allow you to connect, and switch, up to 2 sources utilizing these high resolution video outputs. These terminals are especially useful if your display device has only one set of Component Video inputs.

■ Dolby Digital Decoding

■ 5-CH/6-CH Stereo Mode

Denon's popular 5-CH/6-CH Stereo mode transforms your favorite 2-channel sources such as CD, tape, stereo radio and stereo video sources into exciting surround sound, free of delay effects and unnatural artifacts, from all five, or six, speakers. This 5-CH/6-CH Stereo mode was originally developed by DENON to enhance music lovers' enjoyment of home theater ambience.

■ 96 kHz, 24-bit Audio D/A Converters

■ Adjustable Cross-Over Switching

The AVR-1803 supports subwoofer cross-over switching with a choice of 3 cross-over frequencies: 80, 100, and 120. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

■ Multi Source Function

The AVR-1803 provides a Multi OUT terminal. The Multi Source function lets you enjoy one program source in a second room, or area, while another source is playing in the main room.

■ 6-Channel Input For DVD-Audio or SACD

■ Support for Multi Zone Configurations

The AVR-1803 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 up to 1 additional zone, in addition to the main room. Multi-room Zone can have variable pre-amp output.

The AVR-1803's Power Amplifier Assign function lets you assign the Surround Back (SB A/B) amplifier channels to instead drive the Multi-room Zone powered speaker outputs, with 110 Watts per channel power output capability, while still providing 5 full amplifier channels to drive the main and surround speakers in the home theater room.

■ Video Select Switch

This function lets you select video sources independently of the audio sources.

■ All-channel Level Control

■ Binding Post Speaker Terminals for All Channels

■ Personal Memory Plus

The handy Personal Memory Plus function allows you to store the surround mode, the level settings for all speakers, as well as the delay time, to further customize the sound source. Simply push any source button and it will instantly display the settings stored for that source.

■ Multi-function Remote Controller

- Self-illuminated GLO-KEY Remote Controller with Easy Recognition Layout
- Pre-Memory Function for non-DENON components

■ Frequency Synthesis Tuning

- 40-Station AM/FM Random Preset Memory Tuning
- Auto Preset Memory

■ Other Features

- Cinema Equalizer
- Tone Control

■ Input/Output Terminals For Every A/V System

• Audio Inputs

| | |
|---------------------------------|--|
| 9 Analog Input | PHONO, CD, TUNER, DVD/VDP, V.AUX TV/DBS, VCR-1, VCR-2, CDR/TAPE |
| 6-ch Analog EXT. Input | FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER |
| 4 Digital (Optical) Input | OPTICAL x 4 |
| 1 Digital (Coaxial) Input | COAXIAL x 1 |

• Audio Outputs

| | |
|------------------------------------|------------------------|
| 1 Analog PRE Output | SUBWOOFER |
| 3 Analog REC Output | VCR-1, VCR-2, CDR/TAPE |
| 1 Analog Multi Zone 2 Output | L/R |
| 1 Digital (Optical) Output | OPTICAL x 1 |

• Video Inputs

| | |
|-------------------------------|--------------------------------------|
| 2 Component Video Input | VIDEO1, VIDEO2 |
| 5 S-Video Input | DVD/VDP, TV/DBS, VCR-1, VCR-2, V.AUX |
| 5 Composite Input | DVD/VDP, TV/DBS, VCR-1, VCR-2, V.AUX |

• Video Outputs

| | |
|--------------------------------|-----------------------|
| 1 Component Video Output | MONITOR |
| 3 S-Video Output | VCR-1, VCR-2, MONITOR |
| 3 Composite Output | VCR-1, VCR-2, MONITOR |

Specifications

■ Power Amplifier Section

| | | |
|---------------------|--|--------------------------------------|
| Rated output | *THD figures are power amp stage values. | |
| Front | 80 W + 80 W | (8 ohms, 20 Hz - 20 kHz, 0.08 % THD) |
| | 110 W + 110 W | (6 ohms, 1 kHz, 0.7 % THD) |
| Center | 80 W | (8 ohms, 20 Hz - 20 kHz, 0.08 % THD) |
| | 110 W | (6 ohms, 1 kHz, 0.7 % THD) |
| Surround | 80 W + 80 W | (8 ohms, 20 Hz - 20 kHz, 0.08 % THD) |
| | 110 W + 110 W | (6 ohms, 1 kHz, 0.7 % THD) |
| Surround Back | 80 W | (8 ohms, 20 Hz - 20 kHz, 0.08 % THD) |
| | 110 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 |
| Output level/Load Impedance | |
| SUBWOOFER | 1.2 V/10 kohms |
| VCR-1, VCR-2, CDR/TAPE, | |
| ZONE 2 | 200 mV/47 kohms |
| Frequency response | 10 Hz - 100 kHz (+1, -3 dB) (Tone Defeat On) |
| Signal-to-noise ratio | 100 dB (A-Weighted) (Tone Defeat On) |
| RIAA deviation | ±1 dB (20 Hz - 20 kHz) |
| Tone control | Treble: ±12 dB at 10 kHz |
| | Bass: ±12 dB at 100 Hz |

■ 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 | 4.5 A |
| Dimensions | 434 (W) x 171 (H) x 417 (D) mm |
| | 17.1" (W) x 6.7" (H) x 16.4" (D) |
| Weight | 11.7 kg, 25.8 lbs |



Front panel with terminal cover.

(*1) Note on Movie mode:
On DENON A/V receivers, this Movie mode is displayed as "MODE CINEMA".

*Design and specifications are subject to change without notice.
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