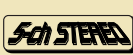


Dolby Digital and DTS A/V Receiver

DENON**AVR-683****With Dolby Pro Logic II for a New Way To Enjoy Home Theater**

The AVR-683 A/V receiver with Dolby Pro Logic II and powerful output of 110 watts per channel lets you enjoy multi-channel home theater entertainment in a new dimension. In addition to Dolby Digital and DTS, you can now also enjoy existing Dolby Surround programs and conventional stereo sources such as CD in convincing 5.1-channel likeness. And if you have only two speakers, one for each stereo channel, you can use the AVR-683's Virtual Surround mode to give yourself the sensation of being completely surrounded by sound as you would in a real theater.



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

| | |
|----------|--|
| Front | 110 W + 110 W (6 ohms, 1 kHz, 0.7 % THD) |
| Center | 110 W (6 ohms, 1 kHz, 0.7 % THD) |
| Surround | 110 W + 110 W (6 ohms, 1 kHz, 0.7 % THD) |

For optimum Dolby Digital and DTS reproduction, the AVR-683 features high quality, wideband audio amplification, providing 110 watts power output for each of the five main channels. A large capacity power supply includes a high current power transformer along with discrete power output devices on all five amplifier channels for highest dynamic range and superb reproduction clarity.

■ **Dolby Pro Logic II Decoder**

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.

■ **Dolby Digital and DTS Decoders**

Equipped with both Dolby Digital and DTS 5.1 channel decoding, the AVR-683 provides thrilling surround sound with the thousands of Dolby Digital and DTS encoded DVDs, as well as the growing library of DTS 5.1 channel music recordings available on CD.

■ **High-quality DSP**

A high-quality 32-bit DSP "MELODY32" from Analog Devices has been used in the DSP processor, placing the AVR-683 at a higher rank than other models of this class in its ability to accurately decode and reproduce the superior quality of Dolby Pro Logic II.

■ **Cinema Equalizer**

The sound from movie sources recorded in Dolby Digital, DTS or other formats emphasizes high-frequency range due to a theater's front speakers being placed behind the movie screen. If this sound is reproduced in the home theater without correction, the high-frequency range is too strong. The AVR-683 features a Cinema Equalizer to correct these high-frequency components so that the sound is clearer and easier to listen to. (For Dolby Digital, Dolby Pro Logic II, and DTS surround modes)

■ **5 Channel Stereo Mode**

DENON's popular 5 Channel 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 speakers. This 5 Channel Stereo mode was originally developed by DENON to enhance music lovers' enjoyment of home theater ambience.

■ **Virtual Surround Mode**

Surround yourself with sensational 3D soundfield envelopment using just one pair of speakers. The AVR-683's Virtual Surround mode provides a dramatic psychoacoustic surround sound effect, using two speakers with Dolby Digital 5.1 encoded sources.

■ **DENON DSP Surround Modes Add Listening Excitement**

Put yourself in the middle of your favorite concert hall and music environments with DENON's DSP acoustic environment simulation modes. These DSP modes add spacious surround sound enhancements to your favorite music and video sources, and include these distinctly different sounding effects:

1. 5 Channel Stereo
2. Virtual Surround
3. Rock Arena
4. Jazz Club
5. Video Game
6. Matrix
7. Mono Movie

■ Versatile Input & Output Terminals

• Digital Optical Output

The AVR-683 provides 1 digital optical output terminal where you can connect a CD recorder or other digital recording device to make high-quality digital recordings directly from digital sources such as CD.

• Front Panel Inputs

The AVR-683's front panel includes 1 set of video audio and digital optical input terminals where you can easily connect your video camera, game machine or other video or pure audio device.

■ Front A/B Speaker Terminals

Two sets of speaker terminals are provided for the main (left and right) speakers. This allows the use of a second pair of stereo speakers in another room in the home.

■ High-grade Speaker Terminals (for speakers A):

Large binding post speaker terminals has been provided for all 5 channels (Front L/R, Center, Surround L/R) to accommodate thick, high-grade speaker cables and banana plugs.

■ Personal Memory Plus, for Easy Operation

The AVR-683 includes the Personal Memory Plus function that automatically remembers the surround mode you last used for each program source, so that you do not need to select the mode again for that program.

■ Multi-Function Preset Memory Remote Controller

The supplied system remote controller features a large selection of remote control codes to operate other components in your home theater system, including codes for selected DENON models, along with remote control codes from other manufacturers. The most frequently used buttons are laid out separately for TV, VCR and DVD, for maximum ease-of-use.

■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V receiver, the AVR-683 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-683 to suit your own home theater and enhance operating ease. The adjustments are easy to make via a dialog format on the fluorescent display on the front panel. These customized features are then stored, for each source input and surround mode, in Personal Memory Plus so constant readjustments are not required.

■ 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

Specifications

■ Input/Output Terminals For Every A/V System

• Audio Inputs

| | |
|---------------------------------|--|
| 8 Analog Inputs | CD, TUNER, DVD/VDP, TV/DBS, AUX, VCR, CDR/TAPE, V.AUX(FRONT) |
| 6 Analog EXT. Input..... | FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER |
| 3 Digital (Optical) Input | OPTICAL X 3 (FRONT: 1) |
| 1 Digital (Coaxial) Input..... | COAXIAL X 1 |

• Audio Outputs

| | |
|----------------------------------|---------------|
| 1 Analog PRE OUT Terminals | SUBWOOFER |
| 2 Analog REC OUT Terminals..... | VCR, CDR/TAPE |
| 1 Digital (Optical) Output..... | OPTICAL X 1 |

• Video Inputs

| | |
|--------------------------|------------------------------------|
| 4 Composite Inputs | DVD/VDP, TV/DBS, VCR, V.AUX(FRONT) |
| 3 S-Video Inputs | DVD/VDP, TV/DBS, VCR |
| 2 Component Inputs..... | DVD/VDP, TV/DBS |

• Video Outputs

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

■ 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) |
| | 110W + 110W (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) |
| | 110W + 110W (6 ohms, 1 kHz, 0.7 % THD) |

■ Preamplifier Section

| | |
|-----------------------------|--|
| Input sensitivity/Impedance | CD, DVD/VDP, TV/DBS, VCR, CDR/TAPE, AUX |
| V.AUX(FRONT)..... | 200 mV/47 kohms |
| Output level/Load impedance | |
| SUBWOOFER..... | 1.2 V/10 kohms |
| CDR/TAPE, VCR..... | 200 mV/47 kohms |
| Frequency response | 10 Hz - 100 kHz (+1, -3 dB) (Tone Defeat On) |
| Signal-to noise ratio | 98 dB (A-weighting) (Tone Defeat On) |
| 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 | 4.0 A |
| Dimensions..... | 434 (W) x 147 (H) x 417 (D) mm |
| | 17.1" (W) x 5.8" (H) x 16.4" (D) |
| Weight | 10.4 kg, 22.9 lbs |



Front panel with terminal cover.

*Design and specifications are subject to change without notice.

**"Dolby", "Dolby Digital", "Pro Logic II", and the double-D device are registered trademarks of Dolby Laboratories Licensing Corporation.

*DTS is registered trademarks of DTS Technology.

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