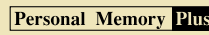


DENON

DTS-ES and Dolby Digital EX A/V Receiver

AVR-685**DTS-ES Discrete 6.1 and Dolby Digital EX with Power Amps for 6 Channels****High-Quality Surround Sound Reproduction**

- NEW High Resolution 32bit Floating Point DSP
- 24 bit, 192 kHz High Resolution D/A Conversion Capability

High-grade Up Conversion

This video transcoding (up-conversion) allows you to enjoy high picture quality from all video sources connected to the AVR-685. Since composite and S-video signals are up-converted into component video signals and output to the monitor, all you need to do is connect a monitor that has component video input jacks.

3 Sets of Component Video Inputs

The AVR-685 is equipped with 3 sets of component video inputs and 1 set of monitor outputs (all RCA terminals)

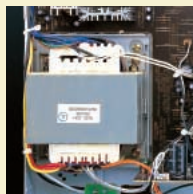
Fully Discrete, Equal Power 6 Amplifier Channels, 110 Watts Each

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)
Surround Back	110 W	(6 ohms, 1 kHz, 0.7 % THD)

For optimum Dolby Digital and DTS reproduction, the AVR-685 features high quality, wideband audio amplification, providing 110 watts power output for each of the 6 main channels. A large capacity power supply includes a high current power transformer along with discrete power output devices on all 6 amplifier channels for highest dynamic range and superb reproduction clarity.

DENON's Basic Design for High-Quality Sound Reproduction**Power Transformer for High Power Driven**

The chassis that supports the large transformer has been designed to absorb vibration, and the transformer is housed inside a highly rigid frame to secure it more solidly to the chassis. In addition, a cushioning material has been placed around the core of the transformer to minimize interference on the signal and enable more faithful reproduction of the original sound. The AVR-685 inherits these low-noise design from higher-end models not to mention the use of sort ring.

**Twin Drive Rectifier**

DENON's Twin Drive Rectifier design uses two rectifying diodes in parallel to bring out the maximum potential of the large transformer. Since the rectifiers recharge the large block capacitors at low impedance, they are able to supply ample current to reproduce deep basses as well as sudden bursts of sound from percussion or other musical instruments.

**Large Aluminum Extruded Heatsink**

DENON uses large heatsink made of extruded aluminum. They have been placed in a design that ensures mostly uniform temperatures throughout the heatsink so that the output transistors for all channels can be driven under uniform conditions. This in turn ensures that all channels respond with equal performance to the demands of the audio signals.

**Wide-Range Play Capability for DVD-Audio and Super Audio CD**

The power amp circuits of the AVR-685 have been meticulously designed to reproduce the exceptionally high sound quality with wide frequency response from 10 Hz to 100 kHz.

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-685 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, Dolby Pro Logic IIx, Dolby Digital EX and DTS surround modes)

Personal Memory Plus, for Easy Operation

The AVR-685 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.

■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V receiver, the AVR-685 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-685 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 Preset Memory Remote Controller with Glo-keys

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.

*Remote control codes cannot be used with the products of other manufacturers and some DENON products.

■ 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

■ 6 Channel Stereo Mode

DENON's popular 6 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 six speakers. This 6 Channel Stereo mode was originally developed by DENON to enhance music lovers' enjoyment of home theater ambience.

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

■ Adjustable Cross-Over Switching

The AVR-685 supports subwoofer cross-over switching with a choice of 8 cross-over frequencies: 40/60/80/100/120/150/200/250Hz. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

■ Front Panel Inputs

- Front A/B Speaker Terminals
- High-grade Speaker Terminals (All ch)

■ Frequency Synthesis Tuning

- 56-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. Inputs.....	FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
3 Digital Inputs.....	OPTICAL x 2 COAXIAL x 1

• Audio Outputs

1 Analog PRE OUT Terminal.....	SUBWOOFER
2 Analog REC OUT Terminals.....	VCR, CDR/TAPE

• Video Inputs

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

• 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.....	75 W + 75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W + 110 W	(6 ohms, 1 kHz, 0.7 % THD)
Center.....	75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround.....	75 W + 75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W + 110 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround Back.....	75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	110 W	(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 (IHF-A weighted) (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 17-3/32" (W) x 5-25/32" (H) x 1-23/64" (D)
Weight.....	10.9 kg, 24 lbs 49 oz



*Design and specifications are subject to change without notice.

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

*DTS is registered trademarks of DTS Technology.

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