

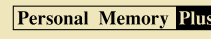
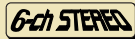
DENON

DTS-ES and Dolby Digital EX A/V Receiver

AVR-1705

TENTATIVE

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
- 96 kHz Processing Circuit
- 24 bit, 192 kHz High Resolution D/A Conversion

■ 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-1705. 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-1705 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.

■ Fully Discrete, Equal Power Six Amplifier Channels, 75 Watts Each

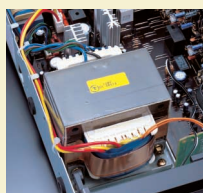
Front	75 W + 75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Center	75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround	75 W + 75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround Back	75 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)

For optimum Dolby Digital and DTS reproduction, the AVR-1705 features high quality, wideband audio amplification, providing 75 watts power output for each of the six main channels. The large capacity power supply includes a high current power transformer along with discrete power output devices on all six amplifier channels for high 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-1705 inherits this low-noise design from higher-end models, like the acclaimed AVR-3805.



• 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-1705 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 emphasize the 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-1705 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 Digital EX and DTS surround modes)

■ Personal Memory Plus, for Easy Operation

The AVR-1705 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 receivers, the AVR-1705 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-1705 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 | 5. Video Game |
| 2. Virtual Surround | 6. Matrix |
| 3. Rock Arena | 7. Mono Movie |
| 4. Jazz Club | |

Adjustable Cross-Over Switching

The AVR-1705 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 (with Optical Digital Input)

- 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. Input FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
 - 1 Digital (Optical) Input OPTICAL X 1
 - 1 Digital (Coaxial) Input COAXIAL X 1

• **Audio Outputs**

- 1 Analog PRE OUT Terminals..... 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
- 17.1" (W) x 5.8" (H) x 1.4" (D)
- Weight..... 10.8 kg, 23.8 lbs



*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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