

## DTS-ES Discrete 6.1 and Dolby Digital EX with Power Amps for 7 Channels



#### ■ High-Quality Sound Reproduction

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

#### ■ Auto Setup with Microphone

The AVR-786 is equipped with an Auto Setup function, to achieve the most ideal sound field for your room. With the microphone placed at your listening position, the powerful 32bit floating point DSP automatically and accurately analyses, adjusts and sets the speaker configurations of your system.



#### ■ 3 Sets of Component Video Inputs

The AVR-786 is equipped with 3 sets of component video inputs and 1 set of monitor outputs.

#### ■ 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-786 inherits these low-noise design from higher-end models not to mention the use of short 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 a large heatsink made of extruded aluminum. It is placed in a design that ensures mostly uniform temperatures throughout the heatsink. This will ensure that all channels respond with equal performance to the demands of the audio signals.



#### ■ Fully Discrete, Equal Power 7 Amplifier Channels, 85 Watts Each

Front	85 W + 85 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Center	85 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround	85 W + 85 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround Back	85 W + 85 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)

For optimum Dolby Digital and dts reproduction, the AVR-786 features high quality, wide-band audio amplification, providing 85 watts power output for each of the seven main channels. A large capacity power supply includes a high current power transformer along with discrete power output devices on all 7 amplifier channels for highest dynamic range and superb reproduction clarity.

#### ■ Wide-Range Play Capability for DVD-Audio and Super Audio CD

The power amp circuits of the AVR-786 have been meticulously designed to reproduce the exceptionally high sound quality with wide frequency response from 10 Hz to 100 kHz.

#### ■ Dual Channel Surround Back Power Amp for 7.1 Surround

The AVR-786 is equipped with a total of 7 power amps including 2 for the Surround Back channel 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.

#### ■ Assignable surround back (L/R) amplifiers for front (L/R) channel bi-amping, or for Multi-zone playback

Amplifiers initially reserved for Surround back (L/R) channels can be assigned to bi-wire Front (L/R) channels to improve playback quality in the front for enhanced listening enjoyment. Or the amplifiers can be assigned to Zone 2 speakers (with multi-source), in addition to PREOUT for Zone 2.

#### ■ 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-786 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 IIx, Dolby Digital EX and DTS surround modes)

#### ■ Personal Memory Plus, for Easy Operation

The AVR-786 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.

#### ■ On Screen Display

The AVR-786 lets you make system settings via displays on your TV screen from the comfort of your chair.

#### ■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V receiver, the AVR-786 lets you adjust speaker configuration, delay times and other parameters so that you can customize the performance of the AVR-786 to suit your own home theater and enhance operating ease. These customized features are then stored, for each source input and surround mode, in Personal Memory Plus so constant readjustments are not required.

# AVR-786

## Multi-Function Preset Memory Remote Controller with Glo-keys

## 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

## 5 Channel/ 7 Channel Stereo Mode

DENON's popular 7 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 7 speakers. This 7 Channel Stereo mode was originally developed by DENON to enhance music lovers' enjoyment with home theater ambience.

## Adjustable Cross-Over Switching

The AVR-786 supports subwoofer cross-over switching with a choice of 8 cross-over frequencies: 40/60/80/100/120/150/200/250 Hz. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

## Audio Delay Function (0 - 200msec.)

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 out-board video processor.

## Component video circuits which maintain flat response up to 100MHz, ensuring sharp image quality

## Video Up/Down conversion function

(Composite <-> S-Video, Composite/S-Video -> Component)

## Other features

### Night Mode for not disturbing others

### Function Rename

### AC Inlet

### Input Function Level

### REC OUT Selector

### All ch Preout

### Front Panel Inputs (with Digital Optical Input)

### Front A/B Speaker Terminals

### High-grade 7 Channel Speaker Terminals (All ch)

### Frequency Synthesis Tuning

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

## 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 Input

OPTICAL x 3 (incl. FRONT x1)  
COAXIAL x 2

### Audio Outputs

#### 1 Analog PRE OUT Terminals

7.1 ch

#### 2 Analog REC OUT Terminals

VCR, CDR/TAPE

#### 1 Digital Output

OPTICAL x 1

### Video Inputs

#### 3 Component Video Input

DVD/VDP, TV/DBS, VCR

#### 4 Composite Inputs

DVD/VDP, TV/DBS, VCR, V.AUX(FRONT)

#### 3 S-Video Inputs

DVD/VDP, TV/DBS, VCR

### Video Outputs

#### 1 Component Video Output

MONITOR

#### 2 Composite Outputs

VCR, MONITOR

#### 2 S-Video Outputs

VCR, MONITOR

## Specifications

### Power Amplifier Section

Rated output \*THD figures are power amp stage values.

Front	85 W + 85 W	(8 ohms, 20 kHz - 20 kHz, 0.08 % THD)
	120 W + 120 W	(6 ohms, 1 kHz, 0.7 % THD)
Center	85 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	120 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround	85 W + 85 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	120 W + 120 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround Back	85 W + 85 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	120 W + 120 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 120 mV/47 kohms

#### Frequency response

Signal-to-noise ratio 10 Hz - 100 kHz (+1, -3 dB) (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

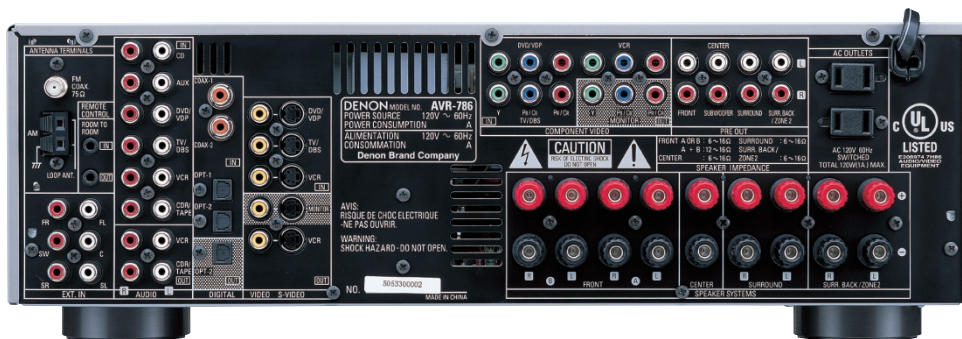
Power supply AC 120 V, 60 Hz

Power consumption 5.1 A

Dimensions 434 (W) x 147 (H) x 417 (D) mm

17-3/32" (W) x 5-25/32" (H) x 16-9/64" (D)

Weight 11.7 kg, 25 lbs 2 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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