

AM/FM Stereo Receiver

DRA-685

DENON

90th
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DENON ELECTRONICS
A DIVISION OF DENON CORPORATION

Superb Stereo Sound and Multi-room Entertainment Convenience

Featuring a multi-room audio function, along with video selection and high power, the DRA-685 serves as the heart of a stereo music system while providing stereo sound for stereo video sources. With a prodigious 100 watts of power per channel, the DRA-685 can easily drive virtually any modern loudspeaker system with authority and clarity. A full suite of convenience and switching functions makes the DRA-685 an indispensable choice for a well equipped music system.



SLDC
SIGNAL LEVEL DIVIDED CONSTRUCTION

Multi Room
Music Entertainment System



■ Signal Level Divided Construction (SLDC)

The circuit handling low-level and high-level signals have been divided into separate blocks to ensure that influences from these signals on each other are held to an absolute minimum. This new chassis design in the DRA-685 is called the Signal Level Divided Construction (SLDC). Signals for output are cleaner than before, allowing them to be reproduced with even greater fidelity and clarity.

■ High-Quality Power Amplifier Section

100 W + 100 W (8 ohms, 20 Hz - 20 kHz, 0.05 %)

Providing 100 watts per channel, into 8 ohms, from 20 Hz to 20 kHz, with no more than .05% total harmonic distortion, the DRA-685 provides separates class audio performance. Together, these components provide superb low impedance drive capability with tremendous dynamic reserve capacity. High speed, wideband discrete power transistors provide delicacy and impact, ideally suited to the needs of the highest quality analog and digital sources.

■ Multi Source Function

The DRA-685's Multi Source function lets you enjoy two different programs in two different rooms. For example, listen to the CD player in the main room, while another family member listens to the tuner in another room in the home. Dedicated multi-room output jacks, with variable volume level adjustment via remote control, are for connection to powered second zone speakers or a second zone amplifier.

■ Room-to-Room Remote Control

External remote control equipment, including IR re-transmitters and IR remote receivers, such as Denon's RC-616, 617S, 617W, and 618 devices, can be connected to the IR remote input and output terminals.

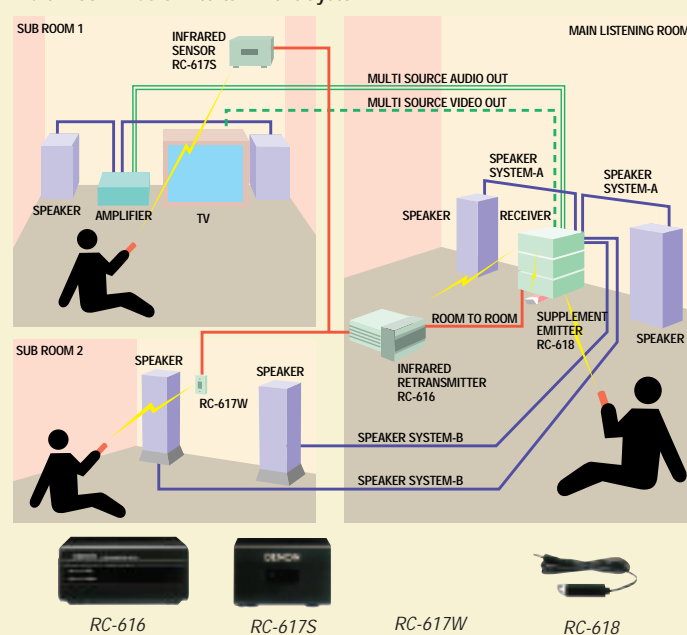
• Integral System (IS) Remote Controller (RC-872)

The DRA-685 is provided with a pre-learned remote control, that contains codes for other Denon components, along with codes for other products from other manufacturers, such as DVD, VCR, TV, etc.

• Second Zone Remote Controller (RC-873)

In addition to the main remote, the DRA-685 is also supplied with another remote that is customized for the second zone multi-room functions. It is equipped with second zone source selection, recalling preset radio stations, adjusting the volume, and other functions that can be controlled from the second zone room.

Multi Room Music Entertainment System



■ Easy Simulcast Copy

This feature not only permits reception and recording of FM/TV simulcast programs onto videotape, but it can also be used to combine, for example, the sound from a CD with the picture from a video disc.

• Record Out Selector

Let's you listen to one source (example: Tuner), while recording another source (example: CD). Ideal for making unattended tape copies.

■ Video Terminals

Stereo video sources, such as hi-fi VCR, stereo TV, and DVD can all be easily connected to the DRA-685's VDP, VCR and Video Aux terminals.

■ Video Select Function

Allows you to select a video source, and then select an alternate audio input source, ideal for simulcasting, as well as watching TV sports programs while listening to radio commentary.

■ 40-Station AM/FM Random Preset Memory Tuning

■ Auto Preset Memory

FM stations can be searched by the tuner, and automatically stored in the preset memory up to 40 stations, ideal for locales with many FM stations.

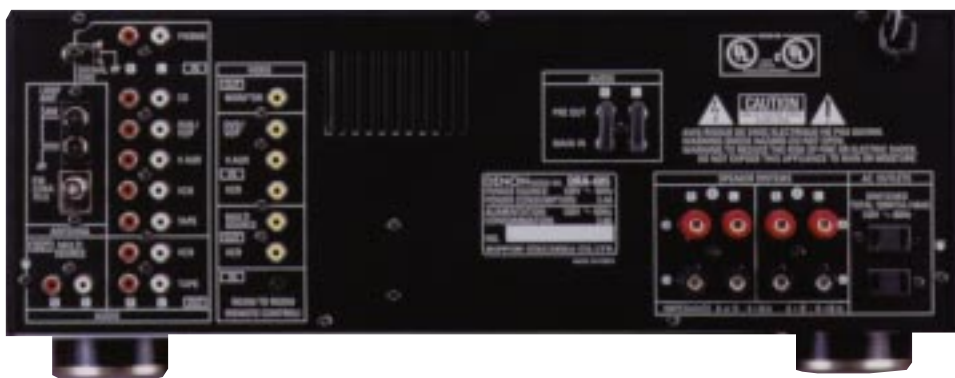
■ Sophisticated Tuning Circuit Design

Thanks to the PLL circuit design, reception drift is a thing of the past. The DRA-685 also has a 4-pole varactor diode in its front end to guarantee accurate input of station frequencies.

- Auto scanning of radio frequency bands
- Fast up/down manual tuning
- Manual step tuning
- Last-channel-tuned memory

■ Other Useful Features

- Loudness Function
- Pre-Output and Main-Input Jacks
- Bass and Treble Tone Controls
- Tone Defeat
- Muting Function via remote controller
- Motor-driven Volume Control
- A/B Speaker Switching
- Last Function Memory
- Switched AC Outlets



Specifications

■ Power Amplifier Section

Rated output 100 W + 100 W (8 ohms, 20Hz - 20kHz, THD 0.05 %)
 Total harmonic distortion 0.009 % (-3 dB at rated output, 8 ohms)
 Frequency response..... 10 Hz - 50 kHz ±1.5 dB (at 1 W)

■ Preamplifier Section

Input sensitivity/Impedance

PHONO(MM) 3.0 mV/47 kohms
 CD, TAPE, VDP,
 VCR, V-AUX 200 mV/47 kohms
 RIAA deviation ±0.5 dB (20 Hz - 20 kHz)
 Tone control Treble: ±10 dB at 10 kHz
 Bass: ±10 dB at 100 Hz

■ FM Section

Tuning frequency range 87.5 - 107.9 MHz
 Usable sensitivity 1.4 µV (14.2 dBf)
 S/N 50 dB sensitivity Mono: 2.8 µV (20.2 dBf)
 (µV at 75 ohms) Stereo: 23 µV (38.5 dBf)

Signal-to-noise ratio (A-weighting) .. Mono: 80 dB, Stereo: 75 dB
 Total harmonic distortion Mono: 0.15 %, Stereo: 0.3 %
 Capture ratio 1.5 dB
 AM suppression 50 dB
 Image rejection 70 dB
 Effective selectivity 55 dB (±400 kHz)
 Frequency response 30 Hz - 15 kHz, +0.2, -1.5 dB
 Stereo separation 40 dB (1 kHz)

■ AM Section

Tuning frequency range..... 520 - 1710 kHz
 Usable sensitivity 18 µV

■ General

Power supply AC 120 V, 60 Hz
 Dimensions 434 (W) x 171 (H) x 416 (D) mm
 17.1" (W) x 6.7" (H) x 16.4" (D)
 Weight 10.0 kg, 22.0 lbs

*Design and specifications are subject to change without notice.