



DESCRIPTION

Long recognized as a central component in superb yet cost-effective music systems, the integrated amplifier's job has evolved substantially as many music-lovers have migrated to digital sources. The RA-1570 is perhaps one of the best examples of melding proven analog design with the most musical digital circuits to bring all of your sources to life with surprising, even surpassing, fidelity.

As are many Rotel amplifiers, the RA-1570's circuitry draws on a high capacity power supply based on a Rotel custom designed and factory built oversized toroidal transformer. In addition to providing an abundance of voltage and current for all operating stages, the transformer's toroidal shape helps prevent stray radiation patterns from corrupting audio signals as they pass through adjacent circuit stages.

Subsequent power supply segments built with tight-tolerance parts including T-Network capacitors provide the exact voltage and current requirements to ensure stress-free signal reproduction.

The RA-1570's input section is substantially more flexible than that found in most integrated amplifiers. In recognition of the growing popularity of digital sources, this amplifier provides a front panel USB input for easy connection of a wide variety of music storage devices including Apple iPods, iPhones, and iPads. Supported formats include MP3, WAV, and WMA files for maximum flexibility. In addition, real panel coaxial (RCA) and optical (TOSlink) inputs provide easy connections for LPCM music files with up to 24-bit word lengths sampled at 192 kHz. Analog inputs include balanced XLR connectors in addition to conventional RCA jacks.

A Wolfson WM8740 stereo D/A converter with selectable digital filters handles critical conversion from digital data to continuous analog waveforms.

The Class AB output stage uses discrete devices to ensure precise reproduction of all signals regardless of origin with virtually any loudspeaker. The power output, a robust 120 watts per channel into 8 ohms, is substantial as it is a continuous "both channels driven simultaneously" rating fully in keeping with real-world expectations and Rotel's tradition of providing real-world value.

User conveniences include separate pre-out/main-in connectors, a highly visible VFD display, precisely-calibrated electronic volume control, and ROTEL LINK capability for easy system integration.



SPECIFICATIONS

Continuous Power Output 120 watts/channel
(20-20 kHz, < 0.03%, 8 ohms)

Total Harmonic Distortion < 0.03% at rated power,
(20Hz-20kHz) 1/2 power, or 1 watt

Intermodulation Distortion < 0.03% at rated power,
(60 Hz : 7 kHz, 4:1) 1/2 power or 1 watt

Frequency Response
Phono Input 20Hz-20kHz, ±0.5dB
Line Level Inputs 10Hz-100kHz, +1, -3dB

Damping Factor 180
(20Hz-20kHz, 8 ohms)

Input Sensitivity / Impedance
Phono Input (MM) 2.25mV / 68k ohms
Line Level Inputs (RCA) 285mV / 100k ohms
Line Level Inputs (Balanced) 570mV / 50k ohms

Input Overload
Phono Input 30mV
Line Level Inputs 4V

Preamplifier Output / Impedance 1.5V / 470 ohms

Signal to Noise Ratio (IHF "A" weighted)
Phono Input 80dB
Line Level Inputs 100dB

Digital Section
Frequency Response 10Hz - 95kHz (±3.0dB, Max)
Signal to Noise Ratio 100 dB
(IHF "A" weighted)

Input Sensitivity/Impedance 0 dBfs / 75 ohms
Preout Level/Impedance 1.2 V / 470 ohms (at -20 dB)

USB/iPod Digital Signals WAV, MP3, WMA
(up to 48kHz 16 bit)

Coaxial/Optical Digital Signals SPDIF LPCM
(up to 192kHz 24 bit)

PC-USB USB Audio Class 1.0
(up to 24 bit/96kHz)
USB Audio Class 2.0
(up to 24 bit/192kHz)*
*Driver installation required

Power Requirements
USA 120 Volts, 60 Hz
EC 230 Volts, 50 Hz

Power Consumption 400 watts
Standby Power Consumption < 0.5 watts

Dimensions (W x H x D) 431 x 144 x 350 mm
(17 x 5 7/8 x 13 3/4 ins)

Front Panel Height 3U (132.6mm, 5 1/4 ins)
Weight (net) 13kg, 28.7 lbs.

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