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RA-1570
Integrated Amplifier





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 one of the best examples of melding classic analog design with contemporary digital circuits to bring all of your sources to life with surpassing fidelity.

As typical of Rotel amplifiers, the RA-1570's circuitry draws on a high capacity power supply based on a Rotel custom designed and in-house manufactured 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. A rear panel asynchronous PC-USB input supporting files up to 24bit/192kHz is also provided. In addition, two each coaxial (RCA) and optical (TOSlink) inputs provide easy connections for LPCM music sources including popular streaming devices with up to 24-bit word lengths sampled at 192 kHz. Importantly, it is possible to fix the level on



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these sources for use with devices that provide their own volume control. Analog inputs include a pair of balanced XLR connectors in addition to conventional RCA jacks.

A Wolfson WM8740 stereo D/A converter 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 requirements and Rotel’s tradition of providing extraordinary value.

User conveniences include separate pre-out/main-in connectors, a highly visible VFD display for set-up, and a precisely calibrated electronic volume control.





SPECIFICATIONS

Continuous Power Output (20Hz – 20kHz, < 0.03%, 8 ohms)	120 watts/channel	Digital Section	
Total Harmonic Distortion (20Hz-20kHz)	< 0.03% at rated power, 1/2 power, or 1 watt	Frequency Response	10Hz - 95kHz (±3.0 dB, Max)
Intermodulation Distortion (60Hz : 7kHz, 4:1)	< 0.03% at rated power, 1/2 power or 1 watt	Signal to Noise Ratio (IHF "A" weighted)	100 dB
Frequency Response		Input Sensitivity/Impedance	0 dBFs/75 ohms
Phono Input	20Hz-20kHz (±0.5 dB)	Preout Level/Impedance	1.2 V/470 ohms (at -20 dB)
Line Level Inputs	10Hz-100kHz (+1, -3 dB)	USB/iPod® Digital Signals	AIFF, AAC (m4a), WAV, MP3, WMA (up to 48kHz 16 bit)
Damping Factor (20Hz-20kHz, 8 ohms)	180	Coaxial/Optical Digital Signals	SPDIF LPCM (up to 192kHz 24 bit)
Input Sensitivity / Impedance		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
Phono Input (MM)	2.25mV / 68k ohms	PC-USB File Decoding	Plays all file types supported by PC software player up to 24bit 192kHz
Line Level Inputs (RCA)	285mV / 100k ohms	Power Requirements	
Line Level Inputs (Balanced)	570mV / 100k ohms	USA	120 volts, 60Hz
Input Overload		EC	230 volts, 50Hz
Phono Input	30mV	Power Consumption	400 watts
Line Level Inputs	4V	Standby Power Consumption	< 0.5 watts
Preamplifier Output / Impedance	1.5V / 470 ohms	Dimensions (W x H x D)	431 x 144 x 358mm 17 x 5 7/8 x 14 in
Signal to Noise Ratio (IHF "A" weighted)		Front Panel Height	3U / 132.6mm / 5 1/4 in
Phono Input	80 dB	Weight (net)	13kg, 28.7 lb
Line Level Inputs	100 dB		

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