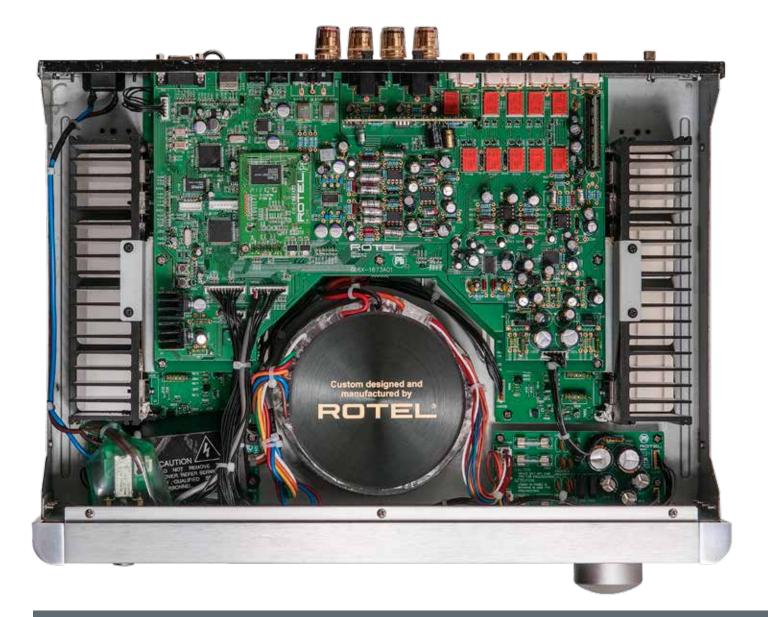




RA-1570 Integrated Amplifier





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 tighttolerance 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)

Total Harmonic Distortion (20Hz-20kHz)

Intermodulation Distortion

(60Hz: 7kHz, 4:1)

Frequency Response

Phono Input Line Level Inputs

Damping Factor

(20Hz-20kHz, 8 ohms)

Input Sensitivity / Impedance

Phono Input (MM)

Line Level Inputs (RCA)

Line Level Inputs (Balanced)

Input Overload

Phono Input Line Level Inputs

Preamplifier Output /

Impedance

Signal to Noise Ratio

(IHF "A" weighted)

Phono Input Line Level Inputs 120 watts/channel

< 0.03% at rated power,

1/2 power, or 1 watt

< 0.03% at rated power, 1/2 power or 1 watt

20Hz-20kHz (±0.5 dB)

10Hz-100kHz (+1, -3 dB)

2.25mV / 68k ohms

285mV / 100k ohms

570mV / 100k ohms

30mV

1.5V / 470 ohms

80 dB 100 dB **Digital Section**

Frequency Response

Signal to Noise Ratio

(IHF "A" weighted)

Input Sensitivity/Impedance

Preout Level/Impedance USB/iPod® Digital Signals

Coaxial/Optical Digital Signals

PC-USB

PC-USB File Decoding

Power Requirements

USA EC

Power Consumption

Standby Power Consumption

Dimensions (W x H x D)

Front Panel Height

Weight (net)

10Hz - 95kHz (±3.0 dB, Max)

100 dB

0 dBFs/75 ohms

1.2 V/470 ohms (at -20 dB)

AIFF, AAC (m4a), WAV, MP3, WMA

(up to 48kHz 16 bit)

SPDIF LPCM

(up to 192kHz 24 bit)

USB Audio Class 1.0 (up to 24 bit/96kHz)

USB Audio Class 2.0 (up to 24 bit/192kHz)*

*Driver installation required

Plays all file types supported by PC

software player up to 24bit 192kHz

120 volts, 60Hz

230 volts, 50Hz

400 watts

< 0.5 watts

431 x 144 x 358mm 17 x 5 7/8 x 14 in

3U / 132.6mm / 5 1/4 in

13kg, 28.7 lb

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