

RA-6000

STEREO INTEGRATED AMPLIFIER



DIAMOND SERIES



Certified
Roon Tested



Supports MQA and
MQA Studio



2 x 350 Watts
of robust Class AB
power, 4 Ohms



Balanced XLR
inputs



Wireless aptX™ HD
and AAC Bluetooth



Texas Instruments
premium 32-bit/384kHz
Digital to Analog Converter

The Rotel Diamond Series RA-6000 Integrated Amplifier celebrates 60-Years of heritage and tradition delivering performance, passion, and value synonymous with the brand's iconic Japanese heritage. The RA-6000 supports an exceptional array of modern and legacy sources with RCA (3), XLR, Moving Magnet Phono stage for vinyl fans, aptX™ HD and AAC wireless Bluetooth, Coaxial (3), Optical (3), and asynchronous PC-USB inputs.

Conveniently packaged in the elegant Diamond Series industrial design the RA-6000 delivers 350 watts of robust, Class AB output power into 4 ohm speakers. An in-house manufactured toroidal transformer feeds dedicated power to all critical circuits utilizing high efficiency, low ESR slit-foil smoothing capacitors delivering an abundance of ripple free, reserve power and current with exceptional control of rich, deep bass energy.

Physical and electrical isolation techniques are utilized in the digital and high gain amplifier circuits reducing noise in the highly sensitive analog stages further lowering the noise floor and reducing distortion.

Digital sources are processed via a premium 32-bit/384kHz Texas Instruments Digital-Analog converter extracting the finest of details portrayed on an immersive sound stage. Coaxial and Optical inputs support 24-bit/192kHz PCM audio. The PC-USB input renders up to 32-bit/384kHz high resolution music files, unfolds and renders MQA and MQA Studio, and is fully certified Roon Tested for the highest compatibility with Roon software.

Front panel controls, a back-lit IR remote control and 2-line display provide intuitive operation of the unit.

Ethernet, RS232, 12V trigger and external remote input ensure simplified integration with all popular control systems.

The RA-6000 is available in both black and silver colors.

RA-6000

STEREO INTEGRATED AMPLIFIER



SPECIFICATIONS

Maximum Power Output	350 watts/ch (4 ohms)	Digital Section	
Continuous Power Output	200 watts/ch (8 ohms)	Frequency Response	10 Hz - 90k Hz (0 ± 2 dB, Max)
Total Harmonic Distortion	< 0.0075%	Signal to Noise Ratio (IHF A-weighted)	102 dB
Intermodulation Distortion (60 Hz : 7kHz, 4:1)	< 0.03%	Input Sensitivity/Impedance	0 dBfs / 75 ohms
Frequency Response		Preamplifier Output Level	1.43 V (at -20 dB)
Phono Input	20 Hz - 20k Hz, 0 ± 0.5 dB	Coaxial/Optical Digital Signals	SPDIF LPCM (up to 24-bit / 192k Hz)
Line Level Inputs	10 Hz - 100k Hz, 0 ± 0.5 dB	PC-USB	USB Audio Class 2.0 (up to 32-bit / 384k Hz)* *Driver installation required
Damping Factor (20 Hz - 20 kHz, 8 ohms)	600		Support MQA and MQA Studio (up to 24-bit / 384k Hz) Roon Tested
Input Sensitivity / Impedance		Power Requirements	
Phono Input (MM)	5.2 mV / 47k ohms	USA	120 V, 60 Hz
Line Level Inputs (RCA)	340 mV / 5.6k ohms	EC	230 V, 50 Hz
Line Level Inputs (XLR)	540 mV / 100k ohms	Power Consumption	500 watts
Input Overload		Standby Power Consumption	
Phono Input (MM)	52 mV	Normal	< 0.5 watts
Line Level Inputs (RCA)	3.5 V	Network Standby	< 2 watts
Line Level Inputs (XLR)	4.5 V	BTU (4 ohms, 1/8th power)	1239 BTU/h
Preamplifier Output / Impedance	1.9 V / 100 ohms	Dimensions (W x H x D)	431 x 144 x 425 mm 17 x 5 7/8 x 16 ins
Signal to Noise Ratio (IHF A-weighted)		Front Panel Height	3U / 132.6 mm / 5 1/4 ins
Phono Input (MM)	80 dB	Weight (net)	18.81 kg, 41.47 lbs.
Line Level Inputs	103 dB	Finish	Silver and Black
Digital to Analog Converters	Texas Instruments		

All specifications are accurate at the time of printing.
Rotel reserves the right to make improvements without notice.

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Being Roon Tested means that Rotel and Roon have collaborated to ensure you
have the best experience using Roon software and the Rotel equipment together, so
you can just enjoy the music.