

## RC-1590MKII

STEREO PREAMPLIFIER



**ROON  
TESTED**  
Certified  
Roon Tested

**MQA**  
Supports MQA and  
MQA Studio

**Balanced XLR  
inputs and outputs**

**Moving Magnet  
Phono input for  
turntable connection**

**Wireless  
aptX™ and AAC  
Bluetooth**

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

Reference audio systems deserve reference audio equipment. The Rotel RC-1590MKII is exactly that -- a reference preamplifier rendering analog and digital sources with natural expression in a wide and open sound stage in stunning clarity.

The heart of the RC-1590MKII begins with the power supply featuring dual in-house manufacture toroidal transformers. The transformers are physically and electrically isolated supplying dedicated analog and digital supply voltages to all critical circuits through low ESR slit-foil capacitors eliminating unwanted distortion and an extremely low noise floor.

Digital source inputs are processed utilizing an audiophile grade Texas Instruments 32-bit/384kHz Digital to Audio Converter (DAC) with custom engineered, proprietary acoustically tuned external output filter circuits rendering even the finest details with exceptional clarity and exact positioning.

Analog signal paths feature DIRECT-PATH bypass modes eliminating unnecessary circuits maintaining signal integrity and further eliminating unwanted noise and distortion drawing you even closer and immersing you in the music.

The RC-1590MKII supports a full array of inputs ensuring connection to your favorite sources including a Moving Magnet Phono input for vinyl lovers, Analog, Digital, XLR Balanced, high quality aptX™ and AAC wireless Bluetooth, and PC-USB (32-bit/384kHz) supporting MQA unfolding and rendering as well as certified Roon Tested.

Dual RCA and XLR output connection provide the ultimate flexibility including bi-amplification installations. A subwoofer output is also included.

The RC-1590MKII proudly continues Rotel's 60-year legacy and heritage with our ongoing promises of performance, value, and unwavering commitment to quality. Authentic, engaging, and spacious – the RC-1590MKII proudly represents this iconic brand.

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### SPECIFICATIONS

<b>Total Harmonic Distortion</b> (20 Hz-20k Hz)	< 0.002%	<b>Digital Section</b>	
<b>Intermodulation Distortion</b> (60 Hz : 7k Hz, 4:1)	< 0.002%	<b>Frequency Response</b>	20 Hz - 20k Hz (0 ± 0.5 dB, Max)
<b>Input Sensitivity / Impedance</b>		<b>Signal to Noise Ratio</b> (IHF "A" weighted)	108 dB
Phono Input (MM)	2.5 mV / 47k ohms	<b>Input Sensitivity/Impedance</b>	0 dBFs / 75 ohms
Line Level Inputs (RCA)	150 mV / 100k ohms	<b>Preamplifier Output Level</b>	1.65 V (at -20 dB)
Line Level Inputs (XLR)	250 mV / 100k ohms	<b>Coaxial/Optical Digital Signals</b>	SPDIF LPCM (up to 24-bit / 192k Hz)
<b>Input Overload</b>		<b>PC-USB</b>	USB Audio Class 1.0 (up to 24-bit / 96k Hz)
Phono Input	64 mV		USB Audio Class 2.0 (up to 32-bit / 384k Hz)* *Driver installation required
Line Level Inputs (RCA)	4 V		MQA and MQA Studio (up to 24-bit / 384k Hz)
Line Level Inputs (XLR)	5.5 V		Roon Tested
<b>Output Level</b>		<b>Power Requirements</b>	
Line Level (RCA)	1 V	Europe	230 V, 50 Hz
Balance (XLR)	2 V	USA	120 V, 60 Hz
<b>Frequency Response</b>		<b>Power Consumption</b>	45 watts
Phono Input	20 Hz-20k Hz (+0.3 dB, -0.2 dB)	<b>Standby Power Consumption</b>	< 0.5 watts
Line Level Inputs (RCA)	10 Hz-100k Hz (+0 dB, -0.1 dB)	<b>BTU</b>	78 BTU/h
Line Level Inputs (XLR)	10 Hz-100k Hz (+0 dB, -0.1 dB)	<b>Dimensions (W x H x D)</b>	431 x 144 x 348 mm 17 x 5 11/16 x 13 7/9 in
<b>Tone Controls</b>		<b>Front Panel Height</b>	3U / 132.6mm / 5 1/4 in
Bass	±10 dB at 100 Hz	<b>Weight (net)</b>	10.1 kg, 22.27 lbs.
Treble	±10 dB at 10k Hz	<b>Finish</b>	Silver and Black
<b>Signal to Noise Ratio</b> (IHF "A" weighted)			
Phono Input	80 dB		
Line Level Inputs (RCA)	117 dB		
Line Level Inputs (XLR)	115 dB		
<b>Channel Separation</b>			
Phono Input	> 85 dB		
Line Level Inputs (RCA)	> 85 dB		
Line Level Inputs (XLR)	> 75 dB		

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

[www.rotel.com](http://www.rotel.com)

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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.