

## RC-1590MKII

STEREO PREAMPLIFIER



ROON  
TESTED

Certified  
Roon Tested



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 positing.

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.

## RC-1590MKII

STEREO PREAMPLIFIER



### SPECIFICATIONS

|                                                           |                                 |                                                    |                                                                                                                                           |
|-----------------------------------------------------------|---------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Total Harmonic Distortion</b><br>(20 Hz-20k Hz)        | < 0.002%                        | <b>Digital Section</b>                             |                                                                                                                                           |
| <b>Intermodulation Distortion</b><br>(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><br>(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<br>(up to 24-bit / 192k Hz)                                                                                                    |
| <b>Input Overload</b>                                     |                                 | <b>PC-USB</b>                                      | USB Audio Class 1.0<br>(up to 24-bit / 96k Hz )<br><br>USB Audio Class 2.0<br>(up to 32-bit / 384k Hz )*<br>*Driver installation required |
| Phono Input                                               | 64 mV                           |                                                    | MQA and MQA Studio<br>(up to 24-bit / 384k Hz )                                                                                           |
| Line Level Inputs (RCA)                                   | 4 V                             |                                                    | Roon Tested                                                                                                                               |
| Line Level Inputs (XLR)                                   | 5.5 V                           | <b>Power Requirements</b>                          |                                                                                                                                           |
| <b>Output Level</b>                                       |                                 | Europe                                             | 230 V, 50 Hz                                                                                                                              |
| Line Level (RCA)                                          | 1 V                             | USA                                                | 120 V, 60 Hz                                                                                                                              |
| Balance (XLR)                                             | 2 V                             | <b>Power Consumption</b>                           | 45 watts                                                                                                                                  |
| <b>Frequency Response</b>                                 |                                 | <b>Standby Power Consumption</b>                   | < 0.5 watts                                                                                                                               |
| Phono Input                                               | 20 Hz-20k Hz (+0.3 dB, -0.2 dB) | <b>BTU</b>                                         | 78 BTU/h                                                                                                                                  |
| Line Level Inputs (RCA)                                   | 10 Hz-100k Hz (+0 dB, -0.1 dB)  | <b>Dimensions (W x H x D)</b>                      | 431 x 144 x 348 mm<br>17 x 5 11/16 x 13 7/9 in                                                                                            |
| Line Level Inputs (XLR)                                   | 10 Hz-100k Hz (+0 dB, -0.1 dB)  | <b>Front Panel Height</b>                          | 3U / 132.6mm / 5 1/4 in                                                                                                                   |
| <b>Tone Controls</b>                                      |                                 | <b>Weight (net)</b>                                | 10.1 kg, 22.27 lbs.                                                                                                                       |
| Bass                                                      | ±10 dB at 100 Hz                | <b>Finish</b>                                      | Silver and Black                                                                                                                          |
| Treble                                                    | ±10 dB at 10k Hz                |                                                    |                                                                                                                                           |
| <b>Signal to Noise Ratio</b><br>(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.

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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.