Full line Catalogue 2016

ROTEL

Contents

Introducing the stunning new
15 Series components

Balanced Design Concept.

15 Series – built on a performance heritage

Rotel's story began more than 50 years ago, yet our ownership and mission have never changed. Rotel is an independent, high-end audio/video company with an unwavering ambition to deliver exceptional value. From the first product we ever made to the new 15 Series, every one of our components is manufactured in our own factory, to assure absolutely consistent quality.

Our new 15 Series range represents the culmination of five decades of commitment to the art and science of electronics design. We've wrapped cutting-edge technologies, that will bring out the best in wireless streaming and digital audio, in stunning brushed metal cabinets; available in silver and black finishes to complement any setting. And we've provided elegantly simple user interfaces and custom installation control features, because we understand that technology should serve you, not the other way around. We believe these components inspire pride of ownership only associated with the absolute finest products.

As ever, the approach that has guided the development of the 15

Series is our famous Balanced Design Concept: a disciplined synthesis of physics, electronics and mechanical engineering, guided by the belief that the whole should be greater than the sum of its parts. Over the decades, we have received hundreds of rave reviews and awards from publications around the world that prove our Balanced Design Concept works. And most importantly, we've satisfied hundreds of thousands of people who take their entertainment seriously – like you!

Because we're dedicated to ensuring our users are always happy with us, Rotel is sold only through the most qualified audio/video retailers and custom installers who have proven track records for superior knowledge and customer service. We invite you to visit Rotel online and view or download a wealth of product information and general audio/video educational materials in our members' area at www.rotel.com. Or better yet, visit your nearest Rotel dealer for a hands-on demonstration.

7.1 Home Theatre Receiver

RSX-1562

This 7.1 channel, surround-sound receiver can serve as master control and amplifier for all audio and video sources in a home cinema system, delivering outstanding performance for both sound and video. It boasts new, improved circuitry and technologies such as HDMI 1.4 with 3D – with six HDMI inputs and two HDMI outputs, one with an Audio Return Channel. The result is it can handle all the video sources you care to connect: cable or satellite box; DVR, DVD or Blu-ray; video streaming devices, games consoles and more. And the Audio Return Channel lets a TV send audio data via HDMI back to the A/V receiver, increasing user flexibility and removing the need for a separate digital audio connection.

A USB front input means you can also connect an iOS smartphone, tablet or USB flash drive easily. Its digital connection means that the RSX-1562's advanced 24-bit/192kHz Digital-to-Analogue Converters can provide the critical decoding for an instant improvement to sound quality. The receiver also boasts Bluetooth, so compatible devices (most smartphones, tablets and other portable media players) don't even need a physical connection. To provide even more audio versatility, the preamplifier includes a ten-band parametric EQ, and advanced bass management.

Video signals are handled by the latest generation Faroudja® Torino FLI30336 Cortez Advanced Platform offering the most robust set of Faroudja DCDi Cinema video processing technologies available. Torino combines unique analogue and digital processing to drastically reduce video noise without sacrificing image quality and sharpness. It also offers next-generation Faroudja RealColour, colour management technologies.

The Torino also includes an integrated 3D video decoder, which supports 3D video signals, whether from Blu-ray players or set-top boxes. The RSX-1562 supports all traditional audio and video processing features with Dolby® TrueHD, Dolby Digital Plus, Dolby Pro Logic IIz, DTS® HD Master Audio, DTS HD and more. Dual 32-bit DSPs and 24-bit/192kHz audio DACs ensure high sound quality and performance.

The on-board amplifiers are a sophisticated Class D design. The receiver power output is 7x 100 Watts at 8 ohms at 20Hz-20kHz and can double that figure at 4 ohms. Due to their efficient design, the surround sound receiver runs relatively cool even at higher levels of operation. As heat is a liability for all electronics, this feature improves longevity. Rotel backs this with a five-year warranty.

Multi-zone outputs provide composite video and analogue audio for three zones. For each zone you can control source, volume and on/off. Setup is simple, using the on-screen display via HDMI video output. The RSX-1562 is a superbly engineered, surround-sound receiver capable of delivering outstanding audio and video performances from all your music and movie sources.

- 7x 100 Watts / channel
- Dual 32-bit DSP processors
- Bluetooth with included dongle
- 6 HDMI v1.4 inputs
- 2 HDMI 1.4 outputs (one with ARC)
- Dolby® TrueHD, Dolby Digital Plus, Dolby PLIIz, dts-HD™ Master Audio
- USB front panel connection for iOS based phones and tablets
- 10 band parametric EQ
- Advanced bass management
- 24-bit/192kHz audio DACs
- Assignable 12 volt triggers
- Video Transcoding to HDMI
- Bi-directional RS-232 interface
- Rear panel IR control ports
- Second, third and fourth zone capable
- Detachable AC cord
- 4U cabinet
- Custom Rotel factory-built toroidal transformer
- Available in black and silver

7.1 Home Theatre Surround Processor / Preamplifier

RSP-1582

If you are passionate about home cinema and are looking to create the highest quality system possible, you need to begin with a reference level preamp/processor, like the new RSP-1582.

The culmination of the latest in Rotel technology – our engineers painstakingly evaluated every circuit design and feature requirement, challenging themselves to achieve the very best audio and video performance at a price point unmatched in today's market.

The RSP-1582 easily meets that challenge and more: it comes with all of the functions, features and performance any home cinema enthusiast could want. Rotel is, first and foremost, an audio company. That's why the RSP-1582 features six high-performance Wolfson 24-bit/192kHz DACs: four independent DACs for front left, front right, centre and subwoofer channels, and two shared stereo DACs for surround channels.

For further audio fidelity, RSP-1582 features a Bypas function for analogue audio inputs including CD, Phono, XLR Balanced and Aux to obtain the cleanest signal for the stereo listening experience. The volume control provides user microcontrol with 0.5db step increments. And for surround duties, there is a Texas Instruments Aureus TMS320DA808 DSP high-performance decoder with ten channel PEQ (Parametric Equalisation) and a PCM1804 audio performance ADC (Analogue-to-Digital Converter).

For video performance, this preamp/processor powerhouse features eight HDMI video inputs and two HDMI video outputs, all supporting 4K pass-through, as well as a Silicon Image Sil9573 2K/4K HDMI transceiver.

There is also a seven-inch TFT display on the front panel to provide easy adjustments to all audio and video settings without needing to turn on the TV or projector. Other features include a front panel HDMI input with 4K video pass-through, front panel USB input with 2.1A charging (for your iOS phone or tablet) and integrated aptX-enabled Bluetooth for highest-quality wireless audio streaming from mobile devices. The RSP-1582 also includes a PC-USB input supporting 24-bit/192kHz audio, a phono stage input, CD input , XLR balanced input, Tuner input, 4 AUX analogue inputs and multichannel input.

RSP-1582 output connections include both XLR balanced and RCA multichannel for optimal connection to a power amplifier. The XLR and RCA outputs include dual subwoofer outputs too.

On top of unassailable audio and video performance, the RSP-1582 is ideal for any custom installation with RJ45 network connection, USB front panel connector supporting software updates, three source-independent trigger outputs, a wired IR remote input, RS-232 interface and IP network interface for automation system control, two IR output connectors for IR pass-through and front panel setup navigation keys.

All of these features and technology mean nothing though, if the end result doesn't meet your expectations. That's why Rotel spent countless hours measuring, listening and tuning the RSP-1582 using globally sourced, select grade, electronic components including a Rotel factory-built toroidal transformer. Everything is carefully evaluated for the best audio performance before the new model goes into production.

- 6 Wolfson WM8740 premium 24-bit/192KHz DACs
- 4 Independent DACs for Front Left, Front Right, Centre and Subwoofer channels
- Analogue Bypass function for CD, Phono, AUX inputs directly to output
- 10 channel PEQ
- 7 rear panel HDMI inputs with 4K video pass-through
- 1 front panel HDMI input with 4K video pass-through
- 2 HDMI 4K video outputs
- HDMI Bypass when in standby passes HDMI from source to TV when RSP in standby mode
- OSD setup and status on front TFT
- PC-USB supporting 24-bit/192KHz audio
- Front panel USB input supporting iOS devices with 2.1A charging
- Phono stage input
- CD, Tuner and 4 AUX analogue inputs
- Multichannel Input
- XLR Balanced input
- 3 source-independent trigger outputs
- Wired IR Remote Input
- RS-232 interface for automation system control
- IP Network interface for automation system control
- 2 IR Output connectors for IR pass-through
- Available in black and silver

VIDEO 1   VOL   41
Dolby TrueHD...   96K

ROTEL

ROTEL

7.1 Home Theatre Surround Processor / Preamplifier

RSP-1572

The RSP-1572 builds upon a progression of outstanding home cinema processors that have received critical acclaim around the world. The RSP-1572 features technologies such as HDMI 1.4 with 3 D capability. It offers six HDMI inputs and two HDMI outputs, one of which features an Audio Return Channel. This lets a TV send audio data via HDMI back to the preamplifier, increasing user flexibility and removing the need for a separate digital audio connection.

A USB front input for smartphones, tablets and digital music players provides a digital connection straight to the RSP-1572's high quality 24-bit/192kHz DACs for decoding. Additionally, the preamp/processor incorporates Bluetooth operation (via a wireless dongle, included), allowing streaming audio playback from tablets, phones, computers or other Bluetooth enabled devices. To provide even more audio versatility, the preamplifier includes a 10 band parametric EQ, and advanced bass management.

Video signals are handled by the latest generation Faroudja Torino FLI30336 Cortez Advanced Platform offering the most robust set of Faroudja DCDi Cinema® video processing technologies available. Torino combines unique analogue and digital processing to drastically reduce video noise without sacrificing image quality and sharpness. It also offers next-generation Faroudja RealColour® colour management technologies.

The Torino also includes an integrated 3D video decoder. The RSP-1572 is designed to properly handle 3D video signals, whether from Blu-ray players or set-top boxes. The RSP-1572 supports all traditional audio and video processing features with Dolby TrueHD, Dolby Digital Plus, Dolby Pro Logic IIz, DTS HD Master Audio, DTS HD and more. Dual 32-bit DSPs and 24-bit/192kHz audio DAC ensure high sound quality and performance.

Multi-zone outputs provide composite video and analogue audio for three zones. Zone control includes source selection, volume and on/off. The RSP-1572 front panel display shows current source, volume and DSP mode. The OSD is available for customer setup using the HDMI, Component or Composite main video outputs.

Most important however is the performance of the RSP-1572. Rotel has paid very careful attention to all of the board level components, circuit design and power supply execution to ensure that the RSP-1572 provides an exceptional home theatre experience.

- Dual 32-bit DSP processors
- Bluetooth capability with included dongle
- 6 HDMI v1.4 inputs
- 2 HDMI 1.4 outputs (one with ARC)
- Dolby® TrueHD, Dolby Digital Plus, dts-HD™ Master Audio
- USB front panel connection for iPhones and iPads
- 10 band parametric EQ
- Advanced bass management
- 24-bit/192kHz audio DACs
- Assignable 12 volt triggers
- Video Transcoding to HDMI
- Bi-directional RS-232 interface
- Rear panel IR control ports
- Second, third and fourth zone capable
- Detachable AC cord
- 3U cabinet
- Custom Rotel factory-built toroidal transformer
- Available in black and silver

Home Theatre
uncompromised

Multichannel Power Amplifiers

RMB-1585

The RMB-1585, Rotel's flagship home cinema amplifier, provides both the massive power and sonic sophistication required by the finest home cinema systems. With five channels, capable of producing 200 continuous Watts each into 8-ohm loads (a full kilowatt of output power!), the efficient yet high-fidelity Class AB amplifier masters any system regardless of speaker load or room size. The back panel is home to XLR balanced inputs a well as RCA, perfect for the latest high-end audio sources.

- 5x 200 Watts / channel
- Class AB high current design
- RCA and XLR inputs
- 12 volt trigger
- Five-way binding posts
- Detachable AC cord
- 5U cabinet with included rack ears
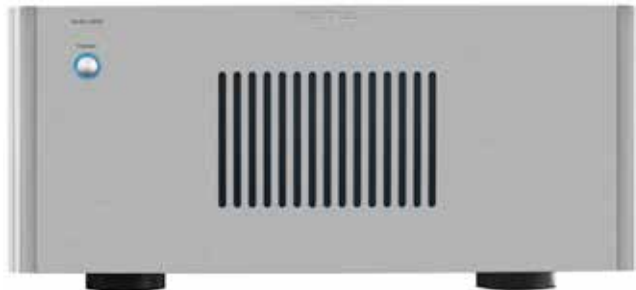- Available in black and silver

RMB-1555

The RMB-1555 uses only discrete output transistors, for their higher thermal stability and freedom from the designed-in compromises that characterise their integrated circuit cousins. The Class AB amplifier configuration assures the best balance between power output and thermal efficiency.

Power output is conservatively rated at 120 Watts per channel into 8 ohms. Truly an amplifier for all uses, the RMB-1555 combines superb execution with maximum reliability to demonstrate Rotel's long devotion to satisfying consumer needs.

- 5x 120 Watts / channel
- Class AB high-current design
- 12 volt trigger
- Five-way binding posts
- Detachable AC cord
- 4U cabinet with included rack ears
- Available in black and silver

RMB-1575

Larger listening environments require prodigious amounts of power to deliver true room-filling sound. That's exactly what you get with this 5x 250 Watt power amplifier. The RMB-1575 is a true high current audiophile design and can double its output to 5x 500 Watts at 4 ohms with all channels driven.

Pure muscle alone, however, does not make a superb amplifier. The RMB-1575 excels at extracting all of the smallest audio details from both music and movie soundtracks alike. Best of all, even with its high power capability, the RMB-1575 runs relatively cool, extending the components' lifespan thanks to its innovative and highly efficient Class D design.

- 5x 250 Watts / channel
- High performance audio amplifier
- 5x 500 Watts @ 4 ohms
- Class D energy efficient design
- 12 volt trigger
- Five-way binding posts
- Detachable AC cord
- 3U cabinet
- Available in black and silver

2 Channel Power Amplifier

RB-1572

This high power two-channel amplifier can be used with the five channel RMB-1575 to expand your cinema system into a 7.1 system, or it can stand alone as a reference amplifier for a two channel hi-fi system.

Either way, it has the same performance characteristics, sound quality and custom installation options as the RMB-1575. High current amplification and a highly efficient Class D design mean that the RB-1572 extracts even the smallest audio details beautifully, while running relatively cool, extending the components' lifespan.

- 2x 250 Watts / channel
- High performance audio amplifier
- 2x 500 Watts @ 4 ohms
- Class D energy efficient design
- 12 volt trigger

- Five-way binding posts
- Detachable AC cord
- 2U cabinet
- Available in black and silver

8 Channel Custom Installation Amplifier
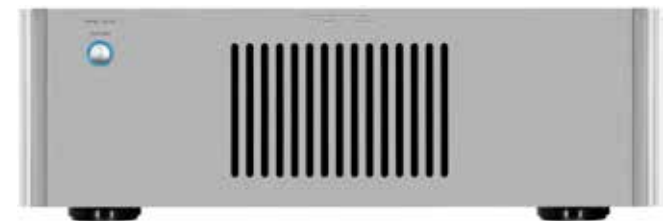
RKB-850
RKB-8100

8 Channel Custom Installation Amplifier with DACs

RKB-D850
RKB-D8100

Rotel has been designing and manufacturing award-winning power amplifiers for over 50 years. That considerable expertise has now been applied to a new generation of rack-mount custom installation amplifiers that are sure to set standards for performance, reliability, and ease of installation.

These amplifiers come in two eight channel configurations at 8x 50 Watts and 8x 100 Watts RMS per channel into 8 ohms, all channels driven. All RKBs can double that output into 4 ohms as a result of their sophisticated and efficient Class D design.

The amplifiers are rugged and extremely reliable, particularly because Rotel has taken additional precautions to maximise service life by using dual thermostatically controlled fans to move heat away from the output modules and power supply.

The digital versions (with a "D") feature four TOSlink optical digital inputs with individual stereo DACS for each pair of channels, in addition to the four analogue inputs. When a digital audio source is detected on TOSlink, the unit automatically switches to the digital input. No user configurations needed and each digital input supports up to 24-bit/192kHz LPCM audio.

Choose either the analogue-only input models or digital-and-analogue input versions as suits the system configuration. In either case, be prepared for an extraordinary audio experience.

Available in black finish only.

Rack handles are included with Rotel's CI models or available separately for the rest of the 15 Series.

Custom Installation Amplifiers

RMB-1512

12 Channel Custom Installation Amplifier

There's no need to purchase several large amplifiers to build a high-performance, multi-zone audio system for your home. The RMB-1512 features advanced Class D amplification that provides plenty of power (12x 100 Watts into 8 ohms) for the most demanding multi-zone audio systems, but the efficient Class D design means it never runs the danger of overheating itself or other electronic components placed nearby.

The RMB-1512 features everything needed for remote operation and custom installation including 12 volt trigger, input linking, sum-to-mono feature, buffered link output, front panel attenuation control, five-way binding posts and screw terminals.

- 12x 100 Watts / channel
- High performance audio amplifier
- Audiophile-quality Class D energy efficient design
- Front panel attenuation control
- Input linking
- Buffered link output
- Sum-to-Mono on two stereo inputs = four mono outputs

- 12 volt trigger
- Five-way binding posts
- Detachable AC cord
- Screw terminals for CI
- 3U Cabinet with included rack ears
- Available in black

RMB-1506

6 Channel Custom Installation Amplifier

This amplifier is perfect for less elaborate multi-zone audio systems and can be teamed with any of our surround receivers or our preamp/processor to add music throughout three additional living areas or home 'zones'. You can also pair it with another RMB-1506 for larger multi-zone applications.

Its 6x 50 Watts into 8 ohms Class AB amplification offers a superb balance between fidelity and efficiency. And, as with all Rotel custom installation amplifiers, it includes all of the most-wanted custom installation features including input linking and 12 volt trigger with signal sensing.

- 6x 50 Watts / channel @ 8 ohms
- High performance audio amplifier
- Analogue-quality Class A/B design
- Front panel attenuation control
- Input linking
- 12 volt trigger
- Buffered link output

- Five-way binding posts
- Detachable AC cord
- 3U cabinet with included rack ears
- Optional fan kit RKBF-1
- Available in black

High Performance
Music Systems

Integrated Stereo Amplifier with Onboard DAC

RA-1570

Long recognised as a central component in superb, yet cost-effective music systems, the integrated amplifier's job has evolved as music lovers have switched to digital sources. The RA-1570 is one of the best examples of combining classic analogue design with contemporary digital circuits to bring all of your sources to life in stunning fidelity.

The RA-1570's inputs are much more flexible than those found in most integrated amplifiers, with digital devices a particular strength. There's a front panel USB for easy connection to iOS smartphones and tablets; while the rear panel asynchronous PC-USB input supports files up to 24-bit/192kHz – ideal for both PC and MAC computers capable of playing back high-resolution files.

Two coaxial (RCA) and two optical (Toslink) inputs on top provide easy connections for LPCM digital music sources including popular streaming devices, also at up to 24-bit/192kHz. Importantly, it is possible to fix the level on these sources for use with devices that provide their own volume control. A Wolfson WM8740 stereo Digital-to-Analogue Converter handles critical conversion from digital data to continuous analogue waveforms beautifully, with results far superior to using your digital device's onboard DAC.

The RA-1570 also incorporates Bluetooth (via a wireless dongle, included), allowing wireless streaming from tablets, phones, computers or other Bluetooth-enabled devices. And analogue is handled more than capably too: inputs include a pair of balanced XLR connectors in addition to conventional RCA jacks.

Typically for Rotel amplifiers, the RA-1570's circuitry draws on a high-capacity power supply based on an oversized toroidal transformer, custom-designed by Rotel and manufactured in-house. As well as providing plenty 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 nearby 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 Class AB output stage also uses discrete devices to ensure precise reproduction of all signals, regardless of origin, with virtually any loudspeaker. The power output is substantial too. A robust 120 Watts per channel into 8 ohms is rated as continuous 'both channels driven simultaneously', in keeping with real-world requirements and Rotel's tradition of providing extraordinary value.

Separate pre-out/main-in connectors, a highly-visible VFD display for set-up, and a precisely-calibrated electronic volume control are also included for convenience.

- 2x 120 Watts / channel
- Class AB high current design
- Oversized toroidal power supply
- Analogue inputs: CD, Phono, Tuner, Aux1, Aux 2, XLR
- Digital inputs: Coax 1, Coax 2, Opt 1, Opt 2, Apple Certified Front USB, PC-USB
- Wolfson premium DAC 24-bit/192kHz
- Bluetooth capability with included dongle
- Fixed gain volume option (DAC/amp), configures a fixed volume level for a specified input level for Aux 1, Coax 1, Optical 1, PC-USB or USB
- Speakers A+B
- Pre-Outs
- 12 volt trigger
- RS-232 control
- Headphone jack
- Detachable AC cord
- 3U cabinet
- Available in black and silver

Integrated Amplifier

RA-1592

There has never been a better time for listening to recorded music given the ever-increasing fidelity that is being achieved and the ever increasing options to acquire it. That's why today's audio electronics needs to have a wide range of analog and digital inputs that are able to render the signals as faithfully as possible. This requires using meticulous engineering techniques combined with high performance components.

Rotel's new RA-1592 integrated amplifier is built upon the award winning RC-1590 preamplifier and RB-1582mk2 power amplifier but in a sleek single chassis design. It is a classic Class AB design with 200 watts per channel into 8 ohms, featuring a rugged power supply with a massive toroidal transformer, coupled to select T-network, slit-foil capacitors. The result is a power supply that won't sag and distort under complex speaker loads or dynamic signal transients. The power supply section is the heart of an amplifier and Rotel does not cut corners on its design.

But the power amplifier section is only a part of the story. The preamplifier section accommodates inputs for not only digital sources but also for classic and legacy analog devices. For digital sources a front panel USB input is featured for easy connection of music storage components such as Apple iPods, iPhones, and iPads. A rear panel asynchronous PC-USB input is also available to support high fidelity files

up to 24bit /192kHz. In addition, three each of coaxial (RCA) and optical (TOS link) inputs are available to provide easy connections for LPCM music sources, including popular streaming devices with up to 24-bit / 192 kHz. sampling rates. Rotel has also included Bluetooth aptX®, an enhanced version of standard Bluetooth that delivers higher resolution, CD-like quality.

For the analog faithful, inputs include a pair of balanced XLR connectors, Phono (MM), Aux, and Tuner. There are also RCA outputs for connection to an additional amplifier and two mono subwoofer outputs.

Custom integration is also an important feature that is not overlooked. The RA-1592 includes 12-volt triggers, RS-232, and a network connection.

The RA-1592 integrated amplifier is truly a contemporary audio component with all of the features, power, and reference music capability you have come to expect from Rotel.

- 2 x 200 Watts / channel - Class A/B high current design
- Rotel factory built toroidal transformer
- Custom slit foil capacitors
- Independent regulators for analog and digital circuits
- Star grounding
- 32 bit, 768kHz DAC
- Digital Inputs: Coax 3 / Optical 3 / aptX Bluetooth / USB
- PC- USB 32b/384k PCM, 1X/2X DSD/DoP
- Analogue Inputs: Phono (MM) / Analog (CD, Tuner, Aux) Balanced XLR
- Dual speaker A-B (controlled via remote or front panel)
- RCA pre-output
- 2 Subwoofer outputs
- Headphone output
- User selectable digital source audio power control (turn off if no music from a SONOS or Apple TV via coax or optical)
- Fixed Volume (Unity Gain) function supported on digital inputs
- Network software updates
- User selectable sleep timer
- RJ45 Networking (IP control and software update)
- IR Remote input
- RS232
- 2 trigger outputs

Stereo Digital-to-Analogue Converter

RDD-1580

Rotel's new Digital-to-Analogue Converter envelops the listener in the most accurate audio reproduction possible from any digital source, whether it's legacy PCM sources or the latest in digital file formats.

The RDD-1580 provides a level of performance unheard of at its price level and is specifically designed to cater for the growing popularity of high definition digital audio.

At its heart, it makes use of Wolfson's extraordinary WM8740 stereo Digital-to-Analogue Converter. But where competitive products use only one of these converters to handle two channels, the RDD-1580 uses two WM8740s in a complementary configuration, reducing noise and distortion far more than a single DAC can.

Another RDD-1580 advantage lies in its input flexibility. A front panel USB input supports smartphones and tablets, as well as streaming via Bluetooth with the included dongle. The rear panel PC-USB input supports files up to 24-bit/192kHz in asynchronous mode – perfect for high-resolution files stored on high-capacity devices such as laptops and NAS drives.

Two sets of rear panel RCA-style coaxial and Toslink optical digital inputs are optimised for LPCM data streams. This includes CDs 16-bit/44.1kHz standard to high definition sources with 24-bit/192kHz audio data.

A Rotel-designed and manufactured toroidal transformer sits at the foundation of the RDD-1580's well-regulated power supply. Advanced custom-designed slit-foil capacitors reduce eddy currents to ensure substantial and stable operating voltages and current to feed the critical circuit stages.

The carefully tuned analogue section is another example of Rotel's award-winning Balanced Design Concept approach where specifications alone do not dictate which electronic parts are selected. Rather, extensive listening tests were carried out under controlled conditions to determine the best way forward. During this time the entire circuit was carefully tuned to provide sonically accurate signal reproduction.

The RDD-1580 provides both single-ended and balanced outputs with RCA and XLR connectors respectively. Recognising today's changing tastes in audio sources, it even provides high-current charging capability (2.1 amps) for an iPad® or similar, so you can charge your device while you listen.

Built for stunning sound quality but designed for today's ever-increasing digital world, the RDD-1580 offers a first-rate combination of superior sound quality and convenience.

- Wolfson dual DACs
- Front panel USB (Bluetooth dongle supplied)
- Rear panel PC-USB input supports files up to 24-bit/192kHz
- Two sets of RCA coax inputs
- Two sets of optical inputs
- RCA and XLR outputs
- RS-232 control
- 12 volt trigger
- Detachable AC cord
- 1U cabinet
- Available in black and silver

Stereo Preamplifier with Onboard DAC

RC-1570

The RC-1570 stereo preamplifier, a blend of cutting-edge digital circuitry and classic analogue stages, is the latest example of Rotel's audio perfectionism.

Beneath the clean lines and user-friendly fascia of the RC-1570 lies highly sophisticated engineering. The use of separate components ensures the best possible fidelity, since each device is optimised for its role in the sound reproduction chain. And both analogue and digital sources have been given equal consideration as today's listener may well have several digital sources but also enjoy legacy formats like vinyl.

A premium onboard Wolfson stereo Digital-to-Analogue Converter handles critical conversion from digital data to continuous analogue waveforms beautifully, with results far superior to using your digital device's onboard DAC. Four digital inputs (two coax and two optical) plus the rear PC-USB handle digital sources up to 24-bit/192kHz resolution. The four inputs are ideal for sources such as TVs, set-top boxes or Blu-ray players. While the PC-USB input means you can listen to music stored on your computer on the best speakers in the house. A Bluetooth dongle is even included to enable wireless streaming from smartphones and tablets via a front USB input.

On the analogue side, inputs include balanced XLR connectors (perfect for connecting the RCD-1570 via its XLR outputs) in addition to four pairs of conventional RCA inputs. Any vinyl lovers will appreciate the inclusion of a moving magnet phono stage. XLR and single-ended outputs are provided, as are two 12 volt triggers to control on/off operation of an amplifier and/or other components and RS-232 on a standard DB-9 connector. The result is an extremely flexible preamplifier.

Continuing the use of specifically chosen, discrete components, a large toroidal transformer and regulated power supply ensures stable current and voltage requirements to all stages under dynamic conditions. Premium circuit components have been selected only after extensive listening evaluations. And careful routing of all low-level signals has been practised to ensure impressive signal-to-noise levels. The result is effortless musical dynamics, impressive detail and scale.

The RC-1570 fuses the old and the new perfectly. That's because Rotel has been designing and manufacturing high-performance components for dedicated enthusiasts for more than 50 years. Those decades of experience, along with precise and efficient in-house manufacturing, are fully evident when you listen to Rotel separates. As countless reviewers have testified over the years, they rival and frequently exceed the performance of much higher-priced offerings.

In short, the RC-1570 is tremendous value and the perfect upgrade for owners of older analogue-only preamplifiers.

- CD, Tuner, Aux 1, Aux 2, XLR input
- Phono input for moving magnet
- Wolfson premium 24-bit/192kHz DAC
- Digital inputs (2x coax, 2x optical), one front panel USB (Bluetooth dongle supplied), and one PC-USB rear panel input for up to 24-bit/192kHz
- Fixed gain volume option (DAC/amp) configures a fixed volume level for a specified input level for Aux 1, Coax 1, Optical 1, PC-USB or USB
- Two pairs of RCA outputs
- One pair of XLR outputs
- Balance controls
- Headphone jack
- RS-232 control
- 2x 12 volt triggers
- Detachable AC cord
- 2U cabinet
- Available in black and silver

RC-1590

It's all about control. The RC-1590 stereo preamplifier is engineered to deliver the highest audio performance levels and an incredible level of control and flexibility for the user.

It all starts with a high-performance power supply consisting of two Rotel custom-built toroidal transformers. These not only ensure maximum efficiency and low magnetic fields, but also provide low-noise isolation between the analogue and digital signals.

They are part of a reference grade power supply consisting of individual analogue and digital regulator circuits with custom-made slit-foil capacitors. These have very quick charge/discharge times and low signal loss, for tight bass performance.

Every aspect of component selection and circuit topography was designed and carefully evaluated during multiple listening sessions to ensure the highest fidelity. For example, analogue and digital circuits were designed separately, by specialised Rotel teams.

Analogue inputs all use very low noise circuitry and include a high-performance, moving magnet phono stage. Digital inputs are fully isolated and feature a precision 32-bit/768KHz Digital-to-Analogue Converter (DAC).

The RC-1590 is engineered to provide a reference-quality stereo preamplifier match to Rotel's new RB-1590 stereo power amplifier. As such, it comes fully feature-laden with an incredible set of specifications, including: comprehensive digital and analogue inputs and outputs as well as Balanced XLR and Unbalanced RCA inputs and outputs. On top of that, comprehensive digital device inputs include Bluetooth with aptX streaming and front USB 2.1A charging input (for smartphones etc), as well as rear panel PC-USB 24-bit/192KHz input supporting DSD (Windows) and DoP (MAC computers DSD over PCM).

On top, there's two 12 volt trigger outputs, a dimmable display, automatic power-off function (configurable), RS-232 and IP control for automation system integration, internet-based software updates, Rotel Link connection, a detachable IEC power cord, an external IR remote input, and a front-mounted 3.5mm headphone output jack.

For music enthusiasts who won't accept compromise, the RC-1590 preamplifier is in a class by itself, at a price that belies its incredible performance.

- Separate toroidal transformers for analogue and digital circuitry
- XLR balanced inputs and outputs
- 2 sets of RCA Pre-outputs
- Line output (fixed volume)
- Phono input
- Digital inputs and outputs including coax and optical
- Aux, CD, Tuner analogue inputs
- Internal aptX Bluetooth (supports aptX and standard Bluetooth) with rear antenna
- Front USB with 2.1A charging input (for smartphones etc.)
- Rear panel PC-USB 24-bit/192KHz input supporting 64x/128x DSD (Windows) and DoP (MAC computers DSD over PCM)
- RS-232 and IP control for automation system integration
- Internet-based software updates
- Detachable IEC power cord
- External IR remote input
- 2 trigger outputs
- 3U chassis
- Available in black and silver

Stereo Class AB Power Amplifier

RB-1590

Power – refined, detailed, and plenty of it. Rotel's new Class AB stereo power amplifier is rated at 350 Watts per channel into 8 ohms both channels driven. That is a lot of power, but larger listening rooms or less sensitive loudspeaker designs require it to bring out the best possible performance and attain realistic audio dynamics.

The impressive capabilities of this amplifier begin with a solid foundation consisting of twin, massive toroidal transformers custom made by Rotel. These transformers are just part of a rock-solid power supply that includes eight special, British-made BHC capacitors, known for their low loss and quick response times.

These components will continue to supply all of the voltage and current requirements needed, even under the most difficult load conditions. But unrefined power has never been a Rotel design goal. Every aspect of circuit design has been carefully considered and each component has been rigorously selected after extensive listening sessions. The circuit topography has been laid out in a true monoblock design ensuring maximum signal separation and improved stereo imaging.

A full features list includes: XLR Balanced and RCA input connections, two pair of 5-way speaker binding posts, thermal and over-current, over-

voltage protection circuitry, dual-staged power on relay to reduce surge current and extend longevity, all in a 5U chassis with included rack ears.

The RB-1590 has been designed for the most discerning audio enthusiast and will provide the highest levels of audio performance.

- Dual toroidal transformers
- 8 British-made BHC capacitors
- 2x 350 Watts both channels driven into 8 ohms
- Dual monoblock amplifier design
- XLR Balanced and RCA input
- 2 pairs of five-way speaker binding posts
- 12 volt trigger
- Thermal protection circuit
- Over current, short circuit, over voltage protection circuit
- Dual-staged power on relay to reduce surge current
- 85+ pounds of performance
- 5U chassis with optional rack ears
- Available in black and silver

RB-1582 MkII   RB-1552 MkII

Rotel's RB-1582MKII stereo amplifier, at 200 Watts per channel, provides the massive current needed to drive the very largest hi-fi systems effortlessly. And, like its smaller brother, it has been designed to excel at resolving the subtle details in music as well as supplying the brawn required for extremely dynamic passages. It achieves this difficult balancing act thanks to the meticulous attention paid to circuit design and parts selection.

The RB-1582MKII is yet another outstanding example of Rotel's Balanced Design Concept and will form the heart of a very impressive stereo or home cinema system for years to come.

The RB-1552MKII is a 120 Watt per channel Class AB stereo amplifier, enough to power all but the largest hi-fi systems. It is engineered to be powerful and robust, yet able to extract every last nuance out of even the most complex musical score.

Notable features of the amplifier include independent left and right power rectification stages and decoupling. The layout is essentially a mono block design.

The RB-1552MKII has been engineered to provide high-resolution audio performance, yet it is surprisingly affordable, as has been the tradition with Rotel electronics for more than 50 years.

- 2x 200 Watts / channel @ 8 ohms
- Dual gold-finished speaker binding posts
- Toroidal transformer
- High-efficiency slit foil capacitors
- RCA and XLR inputs
- 12 volt trigger
- Detachable AC cord
- 3U chassis with optional rack ears
- Available in black and silver

- 2x 120 Watts / channel @ 8 ohms
- Dual gold-finished speaker binding posts
- Toroidal transformer
- High-efficiency Slit foil capacitors
- RCA and XLR inputs
- 12 volt trigger
- Detachable AC cord
- 3U cabinet with optional rack ears
- Available in black and silver

CD Player

RCD-1570

Those who haven't heard Rotel's RCD-1570 might believe that there's nothing new in CD players. Those who have heard it tell an entirely different story.

Since 1982, when the CD was introduced, Rotel has been refining technology and evolving circuitry to bring you extraordinary sound. The RCD-1570, the outstanding CD player in Rotel's 15 series, focuses careful refinements to reveal even the most subtle nuances buried in a CD's pit spiral.

One of the RCD-1570's most important features is the Wolfson WM8740 digital filter and stereo Digital-to-Analogue Converter. Originally developed for high resolution sources, it is the product of extensive research and real world testing and processes digital signals up to 24 bits in length at sampling rates from 8kHz to 192kHz.

While such capabilities may seem excessive for CDs delivering data at far lower rates, this high-speed facility adds reserve capacity to ensure proper reproduction under all circumstances. As the most crucial link between a CD's digital data and the analogue world in which we listen, these superb high resolution capabilities are key. But that's far from the only important element in the RCD-1570's breathtaking performance.

Another advance is the RCD-1570's slot-loading disc transport. In addition to mechanical simplicity and improved reliability, the design isolates the CD from vibration that can affect musical definition. And from a purely aesthetic viewpoint, it adds elegance by simplifying the front panel's appearance.

The post-converter analogue circuitry benefits from Rotel's decades-long experiences in crafting the finest sounding pathway from the Digital-to-Analogue Converter's internal output to single and balanced rear panel connectors that bridge the gap between the RCD-1570 and downstream components. All circuit components – resistors, capacitors, inductors – are chosen only after their positive contribution to sound quality were quantified and verified qualitatively by extensive listening sessions.

All of these circuits draw on a power supply based on an oversized custom Rotel-designed and precision-manufactured toroidal power transformer that, in turn, feeds precise rectifiers, tight-tolerance voltage regulators and advanced Slit-Foil low-ESR storage capacitors, all sourced to ensure musically accurate operation under even the most demanding conditions.

XLR connectors provide balanced outputs, long recognised for their superior noise-rejecting characteristics, while high-quality RCA connectors provide an easy pathway to the myriad of components with single-ended inputs.

This is all part of Rotel's long-proven Balanced Design Concept, obsessive attention to detail and a quest for sonic performance that will make the RCD-1570 part of your reference-level music system for years to come.

- Slot loading
- Wolfson premium 24-bit/192kHz DAC
- Toroidal transformer
- RCA and XLR outputs
- Coaxial digital output
- RS-232 control
- 12 volt trigger
- Detachable AC cord
- 2U cabinet
- Available in black and silver

DAB+ Tuner / Internet Radio / Audio Streamer

RT-1570

The RT-1570 not only offers conventional radio reception for FM and DAB stations (including DAB+ where available), but internet radio streaming and audio playback from media servers too.

Internally, the RT-1570 features one of Rotel's renowned toroidal transformers with separate windings for four independent power supplies; two for the DAC circuits, and a third for the filter and output stages.

The filter/output circuits also include slit-foil capacitors designed specifically for the RT-1570. The fourth power supply supports subsidiary circuits including the CPU and display. All of these circuits feature independent regulation and filtering as befits an audiophile product. And a Wolfson DAC with differential outputs maximises performance, in conjunction with selected components for the signal path, filter circuits and output stages.

As well as receiving FM and DAB (DAB+) stations, digital streaming radio is fully supported. All the key audio codecs are included (most notably mp3, FLAC and AIF), with resolution and sampling rates up to 24-bit/96kHz. This versatility means that most internet radio services

and very high-resolution audio files (normally stored on a local media server) will be reproduced in their native format and resolution.

The RT-1570 can also easily be incorporated into multi room systems via RS-232 and controlled with the likes of Crestron or AMX. The 'Rotel Link' is a straight forward method of controlling compatible products including amplifiers and CD players. And the RT-1570 includes a 12 volt trigger for simple system on-off control.

- DAB+ / FM / internet radio with network streaming
- Separate 30 pre-set memory banks for DAB, FM and internet radio
- Audiophile Wolfson DAC converts FM / DAB+ module's digital output to analogue for improved audio performance
- Playback of high resolution files up to 24-bit/96KHz
- High performance Rotel-designed and built toroidal transformer
- Wound-sectional transformer to separate digital and analogue circuits for virtually noise-free audio signal paths
- 4 independent voltage regulator circuits for the digital and analogue

circuits
- Slit foil capacitors utilised in power supply section to minimise noise and distortion
- RT-1570 circuit layout and components derived from the RC-1570 pre-amplifier
- Both digital and analogue outputs are available for maximum system integration and flexibility

Specifications

ROTEL

RSX-1562
7.1 Home Theatre Receiver

Audio

Continuous Amplifier Power
(7 channels driven)
100 watts/channel
(20-20kHz,<0.05% THD, 8 ohms)

Continuous Amplifier Power
(7 channels driven)
200 watts (1kHz,<1.0% THD, 4 ohms, DIN)

Total Harmonic Distortion
<0.008%

Frequency Response
10Hz - 120kHz, ±3dB (analog bypass)
10Hz - 95kHz, ±0.3dB (digital input)

Signal to Noise Ratio
(IHF A-weighted)
95 dB (analog bypass)
92 dB (Dolby Digital, DTS) 0 dBf

Input Sensitivity / Impedance
Line Level: 200mV/100k ohms

**Preamp Output Level /
Output Impedance**
1.0V/1k ohms

Decodable Digital Input Signals
LPCM (up to 192kHz, 24-bit), Dolby® Digital, Dolby® Digital EX, Dolby® TrueHD, Dolby® Digital Plus, DTS Digital Surround™, DTS Digital Surround 96/24™, DTS Digital Surround ES™, DTS Digital Surround ES 96/24™, DTS-HD High Resolution Audio™, DTS-HD Master Audio™

Video

Input Resolution
480i/576i, 480p/576p, 720p, 1080i 1080p, 1080p 24Hz, 3D (HDMI only)

Output Resolution
480i/576i (Composite only), 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 3D (HDMI only)

Signal to Noise Ratio
45dB

Input Impedance
75 ohms

Output Impedance
75 ohms

Output Level
1 V

HMDI Inputs / Outputs
Version 1.3, supporting Deep Colour passthrough and Broad Colour Space passthrough. Version 1.4, supporting 3D passthrough and Audio Return Channel

FM Tuner

Usable Sensitivity
14.2dBf

Signal to Noise Ratio (at 65dBf)
70dB

Harmonic Distortion (at 65dBf)
0.03%

Stereo Separation (1 kHz)
45dB

Output level
1V

Antenna Input (unbalanced)
75 ohms

AM Tuner

Sensitivity
50µV/m

Signal to Noise Ratio
40dB

Output Level
500mV

Antenna Input
Loop Antenna

General

Power Consumption
500 watts

Standby Power Consumption
0.5 watts

Power Requirements (AC)

USA
120V, 60Hz

EC
230V, 50Hz

Weight (net)
15.5kg (34.17lb)

Dimensions (W x H x D)
431 x 188 x 422mm
(17 x 7 1/2 x 16 5/8in)

Front Panel Height
(feet removed / for rack mount)
4U/176.8mm (7in)

RSP-1582
7.1 Home Theatre Surround Processor / Preamplifier

Audio

Total Harmonic Distortion
< 0.005%

Intermodulation Distortion
(60Hz : 7kHz, 4:1)
< 0.005%

Frequency Response

Analog Bypass
10Hz - 100kHz, ±1.5dB

Digital Input
10Hz - 20kHz, ±0.3dB

Signal to Noise Ratio (A-weighting)
112dB (analog bypass)
112dB (digital input)

Input Sensitivity

Line Level:
250mV/100k ohms

Balance Level:
500mV/100k ohms

Output Level

Line Level (RCA):
1.0V

Balance Level (XLR):
2.0V

Channel Separation
>75dB (at 10kHz)

Digital Audio
LPCM (up to 192kHz, 24-bit), Dolby® Digital, Dolby® Digital EX, Dolby® TrueHD, Dolby® Digital Plus, DTS Digital Surround™, DTS Digital Surround 96/24™, DTS Digital Surround ES™, DTS Digital Surround ES 96/24™, DTS-HD High Resolution Audio™, DTS-HD Master Audio™.

Video

HDMI Standard
Audio Return Channel, 3D, Deep Colour, 2K, 4K Pass-Through

Input Resolutions
480i/576i, 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 3D, 4K, UHD

Output Resolutions
480i/576i, 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 3D, 4K, UHD

Deep Colour Support
24 bit

General

Power Consumption
45 watts

Standby Power Consumption
0.5 watts

Power Requirements

USA
120V, 60Hz

Europe
230V, 50Hz

BTU
137BTU/h

Weight (net)
12kg (26.46lb)

Dimensions (W x H x D)
431 x 188 x 416.8mm
(17 x 7 2/5 x 16 2/5in)

Front Panel Height
4U (177mm, 7in)

RSP-1572

7.1 Home Theatre Surround Processor / Preamplifier

Audio

Total Harmonic Distortion	<0.008%
Intermodulation Distortion (60Hz:7kHz)	<0.008%
Frequency Response	
Analog Bypass	10Hz - 120kHz, ±3dB
Digital Input	10Hz - 95kHz, ±0.3dB
Signal to Noise Ratio (IHF A-weighted)	95dB (analog bypass)
	92dB (Dolby Digital, DTS) 0dBf
Input Sensitivity / Impedance	Line Level: 200mV/100k ohms
Preamp Output Level / Output Impedance	1.0V/1k ohms
Decodable Digital Input Signals	LPCM (up to 192kHz, 24-bit), Dolby® Digital, Dolby® Digital EX, Dolby® TrueHD, Dolby® Digital Plus, DTS Digital Surround™, DTS Digital Surround 96/24™, DTS Digital Surround ES™, DTS Digital Surround ES 96/24™, DTS-HD High Resolution Audio™, DTS-HD Master Audio™.

Video

Input Resolutions	480i/576i, 480p/576p, 720p,1080i, 1080p, 1080p 24Hz, 3D (HDMI only)
Output Resolution	480i/576i (Composite only), 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 3D (HDMI only)
Signal to Noise Ratio	45dB
Input Impedance	75 ohms
Output Impedance	75 ohms
Output Level	1.0V
HMDI Inputs / Outputs	Version 1.3, supporting Deep Colour passthrough and Broad Colour Space passthrough. Version 1.4, supporting 3D passthrough and Audio Return Channel

General

Power Consumption	60 watts
Standby Power Consumption	0.5 watt
Power Requirements (AC)	
USA	120V, 60Hz
Europe	230V, 50Hz
Weight	9.7kg (21.38lb)
Dimensions (W x H x D)	431 x 144 x 338mm (17 x 5 5/8 x 13 1/2in)
Front Panel Height (feet removed / for rack mount)	3U/132.6mm/5 1/4in

RMB-1585

Multichannel Power Amplifiers

Power Output (all channels driven)	200 watts x 5ch (20Hz-20kHz, <0.03% THD, 8 ohms)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	260
Gain	26.5dB
Input Sensitivity / Impedance	1.9V /12 k ohms
Frequency Response	10Hz - 100kHz (±3dB)
Signal to Noise Ratio (A-weighting)	116dB
Power Consumption	1100 watts
Dimensions (W x H x D)	431 x 237 x 454mm (17 x 9 3/8 x 17 7/8in)
Front Panel Height	5U (8 3/4in)
Shipping Weight	43.5kg (96lb)

RMB-1575

Multichannel Power Amplifiers

Power Output (all channels driven)	250 watts x 5ch (20Hz-20kHz, 0.03% THD, 8 ohms) 500 watts x 5ch (20-20kHz, 0.03% THD, 4 ohms)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	400
Gain	27.1dB
Input Sensitivity / Impedance	1.5V / 8.3k ohms
Frequency Response	10 - 80kHz (±3dB)
Signal to Noise Ratio (A-weighting)	109dB
Power Consumption	600 watts
Dimensions (W x H x D)	431 x 144 x 406mm (17 x 5 5/8 x 16in)
Front Panel Height	3U (5.25in)
Shipping Weight	13.47kg (29.7lb)

RMB-1555

Multichannel Power Amplifiers

Power Output (all channels driven)	120 watts x 5ch (20Hz-20kHz, <0.03% THD, 8 ohms)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	180
Gain	26.5dB
Input Sensitivity / Impedance	1.5V /12k ohms
Frequency Response	10Hz - 100kHz (±3dB)
Signal to Noise Ratio (A-weighting)	116dB
Power Consumption	650 watts
Dimensions (W x H x D)	431 x 188 x 454mm (17 x 7 1/2 x 17 7/8in)
Front Panel Height	4U (7in)
Shipping Weight	28.12kg (62lb)

RB-1572

2 Channel Power Amplifiers

Power Output (all channels driven)	250 watts x 2ch (20Hz-20kHz, 0.03% THD, 8 ohms) 500 watts x 2ch (20-20 kHz, 0.03% THD, 4 ohms)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	400
Gain	27.1dB
Input Sensitivity / Impedance	1.5V / 8.3k ohms
Frequency Response	10 - 80kHz (±3dB)
Signal to Noise Ratio (A-weighting)	109dB
Power Consumption	280 watts
Dimensions (W x H x D)	431 x 99 x 339mm (17 x 3 7/8 x 13 3/8in)
Front Panel Height	2U (3.5in)
Shipping Weight	9.07kg (20lb)

RKB-850
8 Channel Custom Installation Amplifier

Power Output (all channels driven)	50 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)
Intermodulation Distortion	< 0.08%
Damping Factor (8 ohms)	>150
Gain	30dB
Input Sensitivity / Impedance	0.6V / 100k ohms
Frequency Response	20Hz - 20kHz, +0dB/-1.4dB
Signal to Noise Ratio (IHF A-weighted)	108dB
Power Consumption	150 watts
Dimensions (W x H x D)	430 x 97 x 424mm 17 x 3 7/8 x 16 3/4in
Front Panel Height	2U (3 1/2in)
Shipping Weight	12.24kg (27lb) (includes rack ears)

RKB-D850
8 Channel Custom Installation Amplifier with DACs

Power Output (all channels driven)	50 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)
Intermodulation Distortion	< 0.08%
Damping Factor (8 ohms)	>150
Gain	30dB
Input Sensitivity / Impedance	0.6V / 50k ohms
Frequency Response	20Hz - 20kHz +0dB/-1.4dB
Signal to Noise Ratio (IHF A-weighted)	108dB
Power Consumption	150 watts
Dimensions (W x H x D)	430 x 97 x 424mm 17 x 3 7/8 x 16 3/4in
Front Panel Height	2U (3 1/2in)
Shipping Weight	12.24kg (27lb) (includes rack ears)

RKB-8100
8 Channel Custom Installation Amplifier

Power Output (all channels driven)	100 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)
Intermodulation Distortion	< 0.08%
Damping Factor (8 ohms)	>150
Gain	30dB
Input Sensitivity / Impedance	0.9V / 100k ohms
Frequency Response	20Hz - 20kHz, +0dB/-1.4dB
Signal to Noise Ratio (IHF A-weighted)	108dB
Power Consumption	300 watts
Dimensions (W x H x D)	430 x 97 x 424mm 17 x 3 7/8 x 16 3/4in
Front Panel Height	2U (3 1/2in)
Shipping Weight	12.7kg (28lb) (includes rack ears)

RKB-D8100
8 Channel Custom Installation Amplifier with DACs

Power Output (all channels driven)	100 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)
Intermodulation Distortion	< 0.08%
Damping Factor (8 ohms)	>150
Gain	30dB
Input Sensitivity / Impedance	0.9V / 50k ohms
Frequency Response	20Hz - 20kHz, +0dB/-1.4dB
Signal to Noise Ratio (IHF A-weighted)	108dB
Power Consumption	300 watts
Dimensions (W x H x D)	430 x 97 x 424mm 17 x 3 7/8 x 16 3/4in
Front Panel Height	2U (3 1/2in)
Shipping Weight	13.15kg (29lb) (includes rack ears)

RMB-1512
Custom Installation Amplifier

Power Output (all channels driven)	100 watts x 12ch (20 Hz-20kHz, < 0.03% THD, 8 ohms) 200 watts x 12ch (20 Hz-20kHz, < 0.03% THD, 4 ohms)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	200
Gain	27.2dB
Input Sensitivity / Impedance	1.25V/8.3k ohms
Frequency Response	10Hz-40kHz (±3dB)
Signal to Noise Ratio (IHF A-weighted)	105dB
Power Consumption	660 watts
Dimensions (W x H x D)	431 x 144 x 449mm 17 x 5 5/8 x 17 4/5in
Front Panel Height	3U (5.25in)
Shipping Weight	12.7kg (28lb) (includes rack ears)

RMB-1506
Custom Installation Amplifier

Power Output (all channels driven)	50 watts x 6ch (20Hz-20kHz, < 0.03% THD, 8 ohms) 80 watts x 6ch (DIN 1K Hz, 1.0% THD)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	200
Gain	26dB
Input Sensitivity / Impedance	1.0V / 20k ohms
Frequency Response	10Hz-100kHz (±3dB)
Signal to Noise Ratio (IHF A-weighted)	115dB
Power Consumption	450 watts
Dimensions (W x H x D)	431 x 144 x 424mm 17 x 5 5/8 x 16 5/8in
Front Panel Height	3U (5.25in)
Shipping Weight	19.09kg (42.10lb) (includes rack ears)

RA-1570
Integrated Stereo Amplifier with Onboard DAC

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

RA-1592
Integrated Amplifier

Continuous Power Output (20 - 20kHz, < 0.03%, 8 ohms)	200 watts/channel
Total Harmonic Distortion (20 Hz - 20kHz, 8 ohms)	< 0.03%
Intermodulation Distortion (60 Hz : 7kHz, 4:1)	< 0.03%
Frequency Response	
Phono Input	20Hz - 20kHz, (±0.5dB)
Line Level Inputs	10Hz - 100kHz, (±0.5dB)
Damping Factor (20 Hz - 20 kHz, 8 ohms)	600
Input Sensitivity / Impedance	
Phono Input (MM)	5.2mV / 47k ohms
Line Level Inputs (RCA)	340mV / 100k ohms
Line Level Inputs (XLR)	540mV / 100k ohms
Input Overload	
Phono Input (MM)	52mV
Line Level Inputs (RCA)	3.5V
Line Level Inputs (XLR)	5.5V
Preamplifier Output / Impedance	1.9V / 100 ohms
Signal to Noise Ratio (IHF A-weighted)	
Phono Input (MM)	80dB
Line Level Inputs	103dB
Digital Section	
Frequency Response	10Hz - 90kHz (±0.2dB, Max)
Signal to Noise Ratio (IHF A-weighted)	102dB
Input Sensitivity / Impedance	0dBf / 75 ohms
Preamplifier Output Level	1.4V (at -20dB)
Coaxial / Optical Digital Signals	SPDIF LPCM (up to 192kHz 24 bit)
PC-USB	USB Audio Class 1.0 (up to 96kHz 24bit) USB Audio Class 2.0 (up to 384kHz 32bit)* *Driver installation required DSD and DoP support
Power Requirements:	
USA:	120 volts, 60Hz
EC:	230 volts, 50Hz
Power Consumption	500 watts
Standby Power Consumption	< 0.5 watts
BTU (4 ohms, 1/8th power)	1239BTU/h
Dimensions (W x H x D)	431 x 144 x 425mm (17 x 5 7/8 x 16in)
Front Panel Height	3U (132.6mm, 5 1/4in)
Weight (net)	16.8kg (37.04lb.)

RDD-1580
Stereo Digital-to-Analogue Converter

Audio	
Total Harmonic Distortion	<0.004%
Intermodulation Distortion (60Hz:7KHz)	<0.004%
Frequency Response	10Hz - 95kHz (±3.0dB)
Signal to Noise Ratio (IHF A-weighted)	128dB
Input Sensitivity / Impedance	0dBf /75 ohms
Line Output Level / Impedance (RCA)	2.0V / 100 ohms
Line Output Level / Impedance (XLR)	4.0V / 200 ohms
Decodable Coaxial / **Optical Digital Signals**	SPDIF LPCM (up to 24 bit 192kHz)
PC-USB File Decoding	Plays all file types supported by PC software player up to 24bit 192kHz
General	
Power Requirements (AC)	120V, 60Hz (USA) 230V, 50Hz (Europe)
Power Consumption	25 watts
Standby Power Consumption	< 0.5 watts
Dimensions (W x H x D)	431 x 55 x 316mm 17 x 2 1/8 x 12 1/2in
Front panel height	1U / 43.7mm / 1 3/4in
Weight (net)	5.09kg (11.24lb)

RC-1570
Stereo Preamplifier with Onboard DAC

Total Harmonic Distortion (20Hz-20kHz)	< 0.004%
Intermodulation Distortion (60 Hz : 7 kHz, 4:1)	< 0.004% at V output
Input Sensitivity / Impedance	
Phono Input (MM)	2.5mV / 47k ohms
Line Level Inputs (RCA)	150mV / 24k ohms
Line Level Inputs (XLR)	300mV / 100k ohms
Input Overload	
Phono Input	65mV
Line Level Inputs	4.3V
Output Level / Impedance	
Output (RCA)	1V / 100 ohms
Output (XLR)	2V / 100 ohms
Frequency Response	
Phono Input	20Hz-20kHz, 0 (±0.3dB)
Line Level Inputs	4Hz-100kHz, 0 (±0.3dB)
Tone Controls	
Bass	±10dB at 100Hz
Treble	±10dB at 10kHz
Signal to Noise Ratio (IHF A-weighted)	
Phono Input	80dB
Line Level Inputs	110dB
Digital Section	
Frequency Response	10Hz - 95kHz (±3dB)
Signal to Noise Ratio (IHF A-weighted)	100dB
Input Sensitivity / Impedance	0 dBf / 75 ohms
Coaxial / Optical Digital Signals	SPDIF LPCM (up to 192kHz 24 bit)
PC-USB	USB Audio Class 1 (up to 96kHz 24 bit) USB Audio Class 2 (up to 192kHz 24 bit)* *Driver installation required
PC-USB File Decoding	Plays all file types supported by PC software player up to 24 bit 192kHz
Power Requirements	
USA	120V, 60Hz
EC	230V, 50Hz
Power Consumption	25 watts
Standby Power Consumption	< 0.5 watts
Dimensions (W x H x D)	431 x 99 x 320mm (17 x 4 x 12 5/8in)
Front Panel Height	2U / 88.1mm / 3 1/2in
Weight (net)	7kg (16lb)

RC-1590
Stereo Preamplifier with Onboard DAC

Total Harmonic Distortion (20Hz - 20kHz)	<0.002%
Input Sensitivity / Impedance	
Phono Input (MM)	2.5mV / 47k ohms
Line Level Inputs (RCA)	150mV / 100k ohms
Line Level Inputs (XLR)	250mV / 100k ohms
Output Level	
Line Level (RCA)	1V
Balanced (XLR)	2V
Frequency Response	
Phono Input	20Hz - 20kHz, 0 ±0.2dB
Line Level Inputs	10Hz - 100kHz, 0 ±0.1dB
Signal to Noise Ratio (IHF A-weighted)	
Phono Input	20Hz - 20kHz, 0 ±0.2dB
Line Level Inputs	10Hz - 100kHz, 0 ±0.1dB
Signal to Noise Ratio (IHF A-weighted)	
Phono Input	80dB
Line Level Inputs	112dB
Channel Separation	
Phono Input	>75dB
Line Level Inputs	>75dB
Digital Section	
Frequency Response	20Hz - 20kHz, (±0.5dB, Max)
Signal to Noise Ratio (IHF A-weighted)	108dB
Digital Inputs	SPDIF LPCM (up to 192kHz 24 bit)
PC-USB	USB Audio Class 1.0 (up to 96kHz 24 bit) USB Audio Class 2.0 (up to 192kHz 24 bit)* *Driver installation required DSD/DoP 1x, 2x
Power Requirements	
USA	120V, 60Hz
EC	230V, 50Hz
Power Consumption	45 watts
Standby Power Consumption	<0.5 watts
BTU	78BTU/h
Dimensions (W x H x D)	431 x 144 x 348mm, 17 x 5 7/8 x 13 7/9in
Front Panel Height	3U (132.6mm, 5 1/4in)
Weight (net)	9.19kg (20.28lb)

RB-1590
Stereo Class AB Power Amplifier

Power Output (all channels driven)	350 watts/ch (20 - 20kHz, <0.03%, 8 ohms)
Intermodulation Distortion	<0.03% (60Hz : 7kHz, 4 : 1)
Damping Factor (8 ohms)	300
Input Sensitivity / Impedance	
Unbalanced	2.2V / 12k ohms
Balanced	3.5V / 100k ohms
Frequency Response	10Hz - 100kHz (±0.5dB)
Signal to Noise Ratio (IHF A-weighted)	120dB
Power Consumption	800 watts
Dimensions (W x H x D)	431 x 237 x 454mm 17 x 9 3/8 x 17 7/8 in
Front Panel Height	5U (8 3/4in)
Shipping Weight	45.49kg (100.31lb)

RB-1582 MkII
Stereo Class AB Power Amplifier

Power Output (all channels driven)	200 watts x 2ch (20Hz-20kHz, < 0.03% THD, 8 ohms)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	800
Input Sensitivity / Impedance	
Unbalanced	1.9V / 12k ohms
Balanced	3.0V / 100k ohms
Frequency Response	10-100kHz (±0.5dB)
Signal to Noise Ratio (IHF A-weighted)	116dB
Power Consumption	550W watts
Dimensions (W x H x D)	431 x 144 x 40mm 17 x 5 7/8 x 16in
Front Panel Height	3U (5.25in)
Shipping Weight	22.67kg (50lb)

RB-1552 MkII
Stereo Class AB Power Amplifier

Power Output (all channels driven)	120 watts x 2ch (20Hz-20kHz, < 0.03% THD, 8 ohms)
Intermodulation Distortion	< 0.03%
Damping Factor (8 ohms)	450
Input Sensitivity / Impedance	
Unbalanced	1.5V / 12k ohms
Balanced	2.5V / 100k ohms
Frequency Response	10-100kHz (±0.5dB)
Signal to Noise Ratio (IHF A-weighted)	120dB
Power Consumption	400 watts
Dimensions (W x H x D)	431 x 144 x 339mm, 17 x 5 7/8 x 13 3/8in
Front Panel Height	3 U (5.25in)
Shipping Weight	15.87kg (35lb)

RCD-1570
CD Player

Total Harmonic Distortion + Noise	0.0045% @ 1kHz
Frequency Response	20Hz-20kHz (±0.5dB)
Channel Balance	± 0.5dB
Channel Separation	> 98dB @ 1kHz
Signal to Noise Ratio	> 100dB
Dynamic Range	> 96dB
Digital to Analog Converters	Wolfson
Speed Accuracy, Wow & Flutter	Quartz Crystal Precision
Analog Output Level / Impedance (0dBf)	
Unbalanced (RCA)	2.0V / 100 ohms
Balanced (XLR)	4.0V / 200 ohms
Digital Output Level (coax)	0.5V, Peak to Peak
Digital Output Impedance	75 ohms
Power Requirements	
USA	AC 120V, 60Hz
Europe	AC 230V, 50Hz
Power Consumption	15 watts
Dimensions (W x H x D)	431 x 99 x 320mm (17 x 4 x 12 5/8in)
Front Panel Height (for rack mount)	2U / 88.1mm / 3 1/2in
Weight (net)	6.7kg (14.74lb)

RT-1570
DAB+ Tuner / Internet Radio / Audio Streamer

FM Tuner	
Usable Sensitivity	22.2dBf
50dB Quieting Sensitivity	27.2dBf (mono)
Signal to Noise Ratio (at 70 dBf)	
Mono	65dBf
Stereo	60dBf
Harmonic Distortion (at 70 dBf)	
Mono	0.2%
Stereo	0.3%
Frequency Response	10Hz-15kHz, ±3dB
Stereo Separation (100Hz/1kHz)	40dB/30dB
Output Level	
Line	1V
Digital	0.7V
Antenna Input	75 ohms Belling Lee connector
DAB Tuner Sensitivity	-80dBm
Tuning Range	Band III (174-240MHz)
Audio Data Rate	224Kbps (Max)
Frequency Response	20-20kHz, ±0.2dB
Analog Output	2.3V at 0dBf
Antenna Input	75 ohms F connector
General	
Network Connection	802.11 b/g
Security	WEP, WPA1 (TKIP) WPA2 (TKIP)
File Formats (UPnP Music Server)	AAC, MP3, WMA, WAV, AIFF, FLAC and ALAC
Power Consumption	16 watts
Standby Power Consumption	0.5 watts
Power Requirements (AC)	
USA	120V, 60Hz
Europe	230V, 50Hz
Dimensions (W x H x D)	430 x 99 x 310mm (17 x 4 x 12 1/4in)
Front Panel Height	2U (88.1mm, 3 1/2in)
Weight (net)	6.33kg (13.96lb)

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