



## 15 Series

PRODUCT CATALOG 2015







## 15 series components

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## Introducing the stunning new **15 Series components**



**The Absolute Sound**  
April 2014, Alan Taffel

*"Long before others, Rotel demonstrated that high-end sound need not come at a high-end price."*

Balanced  
Design  
Concept.

### **15 Series** - built on a performance heritage

Our story began over 50 years ago, yet our ownership and mission have never changed. We are an independent high performance audio/video company with an unwavering ambition to deliver exceptional value. As with the first product we ever made, our components are skillfully manufactured in our own factory thus assuring consistent quality.

We call our design approach 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. Most importantly, we've satisfied hundreds of thousands of people who take their entertainment seriously—like you! We sell our brand only through the most qualified group of audio/video retailers and custom installers who have proven track records for superior knowledge and customer service.

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

We invite you to visit Rotel on-line and view or download a wealth of product information and general audio/video educational materials in our members' area at [www.rotel.com](http://www.rotel.com). Better yet, visit your nearest Rotel dealer for a hands-on demonstration.

# 7.1 Channel Surround-Sound Receiver

## Blu-rayDefinition.com

April 29, 2012, Lawrence D. Devoe, M.D.

*"I have seen my share of AV receivers and, in audio and video performance, the Rotel RSX 1562 is as good as it gets. Build quality is top notch and everything works as intended."*

## HomeTheaterReview.com

October 8, 2012, Sean Killebrew

*"As receivers go, it's truly one of the more acoustically pleasing and aesthetically well designed pieces I've had in my listening room."*



- 7 x 100 watts / channel
- Dual 32 bit processors
- Bluetooth capability with included Dongle
- 6 x HDMI v1.4 inputs
- 2 x HDMI 1.4 outputs (one with ARC)
- Dolby® TrueHD, Dolby Digital Plus, Dolby PLIIZ, dts-HD™ Master Audio
- USB front panel connection for iPod®/iPhone®/iPad® or other MP3 players
- 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



Rotel has over 50 years of experience in designing and manufacturing high performance electronics for home entertainment. Our latest advanced component is the new RSX-1562, a 7.1 channel, surround-sound receiver that can serve as master control and amplifier for all audio / video sources and speakers in a home theater system.

The RSX-1562 builds upon the excellence established by its highly acclaimed predecessor, the RSX-1560, but with the addition of new, improved circuitry and technologies such as HDMI® 1.4 with 3D. In addition, the advent of so many video sources such as a cable or satellite box, DVRs, DVD players, and WiFi or Ethernet audio / video feeds from devices such as Apple TV® and Roku® etc., have necessitated adding more HDMI inputs. The RSX-1562 now has six HDMI 1.4 inputs and two HDMI 1.4 outputs, one with an Audio Return Channel (ARC). The ARC in HDMI 1.4 enables a TV via a single HDMI cable, to send audio data “upstream” to an A/V receiver or surround audio controller, increasing user flexibility and eliminating the need for any separate S/PDIF audio connection.

A USB front input for iPod®/iPhone®/iPad® or other MP3 player use is provided. The USB input provides a digital

connection so that the RSX-1562's advanced 24Bit/192K DACs can provide the critical decoding. Additionally, the receiver incorporates Bluetooth operation so that a physical connection of portable audio players (which have this capability), is not required. 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 analog and digital processing to drastically reduce video noise without sacrificing image quality and sharpness. It also offers next-generation Faroudja RealColor, color management technologies. The Faroudja Torino includes an integrated 3D video decoder. The RSX-1562 is designed to support 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 DSP's and 24Bit/192K audio DACs ensure high sound quality and performance.

The amplifiers on board the RSX-1562 are a sophisticated Class D design. The power output of the receiver is 7 x 100 watts into 8 ohms @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 benefits the longevity of the unit. Rotel has one of the better warranties in the industry for receivers at 5 years parts and labor.

Multi zone outputs provide composite video and analog audio for 3 zones. Zone control includes source selection, volume and on/off. The RSX-1562 front panel display shows current source, volume and DSP mode. The OSD is available for customer setup using the 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.

Also available in black finish

# RSX-1562

## 7.1 Home Theater Surround Processor / Preamplifier



# RSP-1582





The RSP-1582 has been two years in the making and is a wholly new platform. Rotel engineers evaluated painstakingly every circuit design and feature requirement. It is built with a modular construction to facilitate upgrades of key internal circuit boards, and is software updateable over the Internet or via a simple USB download if a network connection is not available.

The RSP-1582 is a home theatre preamplifier/processor, of course, but first and foremost, it truly shines as an audio component. For example, six Wolfson 24bit/192kHz devices are arrayed as four independent DACs for Front Left, Front Right, Center and Subwoofer channels with shared stereo DAC's for the rear channels. This topology offers exemplary performance all around, but provides the absolute best quality on the most critical channels. In theater mode, a Texas Instruments Aureus DSP high-performance decoder is utilized with 10-channel Parametric Equalization. A high performance Texas Instruments Analog-to-Digital convertor is used to facilitate optimum conversion of analog signals for playback in

surround sound modes. Balanced XLR and single ended connections are offered, and the audio stages use premium components in all signal critical applications. For pure stereo playback of analog sources, the RSP-1582 features an analog bypass to obtain the cleanest path.

For video use, the preamp/processor incorporates eight HDMI 4K video inputs (no scaling) with two HDMI 4K video outputs. The RSP-1582 also employs a Silicon Image 2K/4K HDMI transceiver. Its modular HDMI circuit construction means future upgrades can be accommodated easily.

Other features include one front panel HDMI input with 4K video pass-through, built-in APTX Bluetooth technology, a PC-USB input that supports 24-bit/192kHz audio, CD, Tuner and 4 AUX analogue inputs, along with a multichannel input and XLR input. It even has a phono stage!

There is a seven-inch TFT display on the front panel to provide easy adjustments to all audio and video parameters without the need to turn on an external

display or video projection system – perfect for when the equipment rack is remote located. And the RSP-1582 comes with rack ears in the box to make such installations easy.

In addition to its unassailable audio and video performance, custom installers will find the RSP-1582 ideal for any installation application with RJ45 network connection, Internet or USB front panel software updates, three source independent trigger outputs, a wired IR remote input, RS232 and IP interface for automation system control, 2 x IR output connectors for IR pass-through and front panel setup navigation control.

All of these features and technology mean nothing, though, if the end result doesn't meet your performance expectations. That's why Rotel engineers spend countless hours measuring, listening and refining the circuitry. The end result is a surround processor/preamplifier that is worthy of the finest music systems and theaters at an unrivalled price.

Also available in silver finish

- 6 Wolfson WM8740 24bit 192kHz HiFi DACs: 4 independent DACs for Front Left, Front Right, Center and Subwoofer channels, 1 DAC each for Surround and Center Back/Front Height channels
- Analog BYPASS mode for analog inputs passes audio directly to output w/ no DSP processing
- 10 channel PEQ
- 7 rear panel HDMI inputs capable of 4K video pass-through
- 1 front panel HDMI input capable of 4K video pass-through
- 2 HDMI 4K video outputs (one with ARC)
- HDMI Bypass when in standby allowing the HDMI from source to TV when RSP in standby mode
- OSD setup and status on front TFT and HDMI out
- PC-USB supporting 24-bit/192kHz audio
- Front panel USB input supporting iOS devices with 2.1A charging
- Phono stage input (MM)
- CD, Tuner and 4 analog inputs
- Multi Channel Input
- XLR Balanced input
- Bluetooth with aptX
- 3 source independent 12V trigger outputs
- Wired IR Remote Input
- RS232 interface for automation system control
- IP Network interface for automation system control
- 2 IR Output connectors for IR pass-through
- 4U cabinet with included rack ears

# 7.1 Home Theater Surround Processor / Preamplifier

The RSP-1572's advanced design builds upon a progression of outstanding home theater processors that have received critical acclaim around the globe. The RSP-1572 features important new technologies such as HDMI 1.4 with 3D capability. It offers six HDMI inputs and two HDMI outputs with one HDMI output having ARC capability (Audio Return Channel). The ARC in HDMI 1.4 enables a TV via a single HDMI cable, to send audio data "upstream" to an A/V receiver or surround audio controller, increasing user flexibility and eliminating the need for any separate S/PDIF audio connection.

A USB front input for iPod®/iPhone®/iPad® or other MP3 player use is provided. The USB input provides a digital connection so that the RSP-1572's high quality 24/192 DACs provide the crucial decoding. Additionally, the preamp/processor incorporates Bluetooth operation (via a wireless Dongle that is 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 Torina FLI30336 Cortez Advanced Platform offering the most robust set of Faroudja DCDi Cinema® video processing technologies available. Torino combines unique analog and digital processing to drastically reduce video noise without sacrificing image quality and sharpness. It also offers next-generation Faroudja RealColor® color management technologies. The Faroudja 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 DSP's and 24Bit/192K audio DAC ensure high sound quality and performance.

Multi zone outputs provide composite video and analog audio for 3 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 is the very best preamp/processor available yet from this highly respected audio company.

Also available in black finish

# RSP-1572



### Stereophile

March 2013, Kalman Rubinson

*"...those of us that don't mind getting our hands dirty with some measurement tools can have it all with the RSP-1572: great sound and great looks."*



- Dual 32 bit processors
- Bluetooth capability with included Dongle
- 6 x HDMI v1.4 inputs
- 2 x HDMI 1.4 outputs (one with ARC)
- Dolby® TrueHD, Dolby Digital Plus, dts-HD™ Master Audio
- USB front panel connection for iPod®/iPhone®/iPad® or other MP3 players
- 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





Home Theater  
Uncompromised

**ROTEL**

**Blu-RayDefinition.com**

February 2, 2014

*"The price of admission to this black beauty (silver chassis is also available) should not put off those home theater enthusiasts who want to take their listening experience to the next level. Heck, this might be the last multichannel that you will ever need to buy (and in my experience, Rotel products seem to last forever)."*



# RMB-1585

The RMB-1585, Rotel's new flagship theater amplifier, provides both the massive power and sonic sophistication required by the finest home theater systems. With five channels, capable of producing 200 continuous watts each into 8 ohm loads (a full kilowatt of output power!), the RMB-1585 masters any A/V system regardless of speaker load or room size.

- 5 x 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

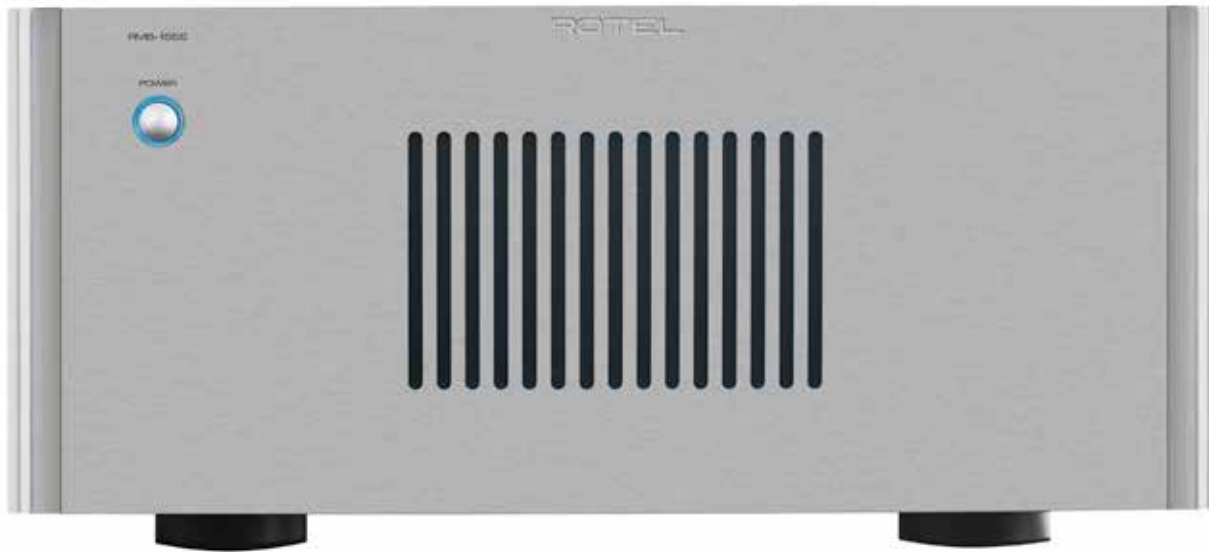
Also available in black finish

# Multichannel Power Amplifiers

HomeTheaterReview.com

June 8, 2013

*"...whether used in a home theater system as a distribution amplifier for several independent zones in your home, or as the foundation of a multichannel music system, the RMB-1555 is designed to be up to the task."*



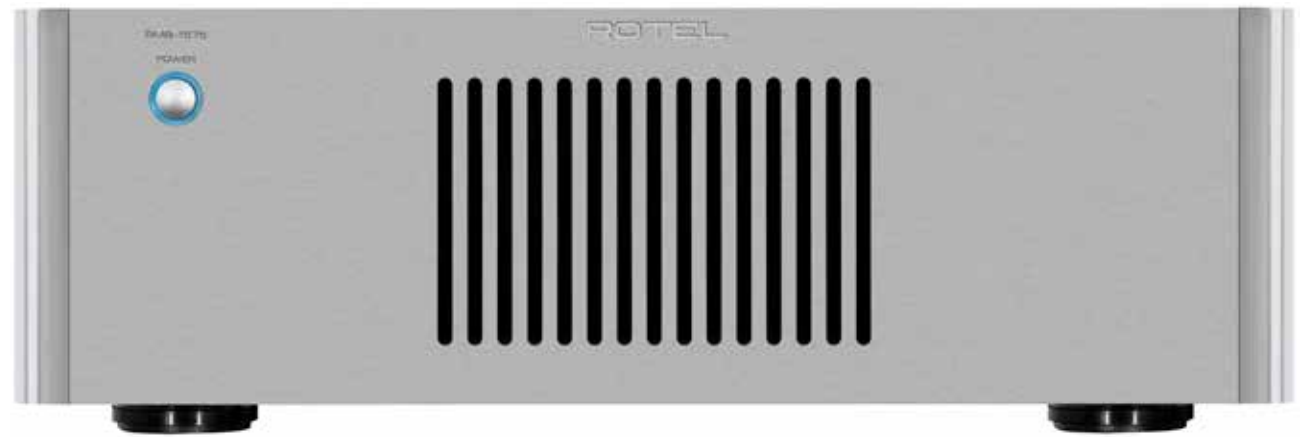
- 5 x 120 watts / channel
- Class AB high current design
- 12 volt trigger
- Five way binding posts
- Detachable AC cord
- 4U cabinet with included rack ears

The RMB-1555 uses only discrete output transistors with their higher thermal stability and freedom from the design-in compromises that characterize 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.

Also available in black finish

# RMB-1555

# Multichannel Power Amplifier



# RMB-1575

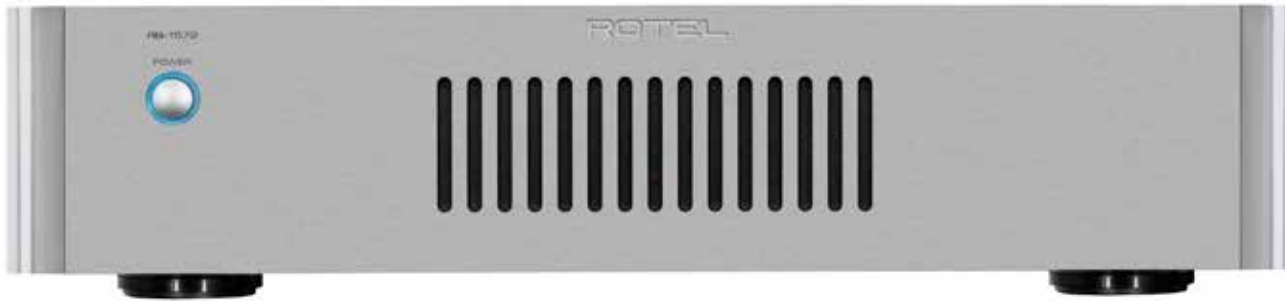
Larger listening environments require prodigious amounts of power to deliver room filling sound. That's exactly what you get with Rotel's 5 x 250 watt power amplifier. Rotel's RMB-1575 is a true high current audiophile design and can double its output to 5 x 500 watts at 4 ohms with all channels driven.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

Also available in black finish

- 5 x 250 watts / channel High Performance Audio Amplifier
- 500 Watts x 5 Channels 4 ohms
- Class D Energy Efficient Design
- 12 Volt Trigger
- Five Way Binding Posts
- Detachable AC Cord
- 3U (5.25") Cabinet



# 2-Channel Power Amplifier



- 2 x 250 watts / channel
- High Performance Audio Amplifier
- 500 Watts X 2 Channels 4 ohms
- Class D Energy Efficient Design
- 12 Volt Trigger
- Five Way Binding Posts
- Detachable AC Cord
- 2U (3.5") Cabinet

This high power two-channel amplifier can be used with the RMB-1575 to expand your theater 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 five-channel RMB-1575.

Also available in black finish

# RB-1572

# 8-Channel Custom Installation Amplifier



## RKB-850

The RKB-850 is rated at 8 x 50 watts RMS into 8 ohms all channels driven, and can double that output into 4 ohms as a result of its sophisticated, efficient Class D design. The amplifier is rugged and extremely reliable, but Rotel has gone one step further to maximize long service life by utilizing dual thermostatically controlled fans to exhaust heat away from the output modules and power supply.

One of the many custom-friendly features the RKB-850 offers is input linking. A second input can source from any 'upstream' input - so B can source from A, C can source from B and D can source from C. You can create four individual stereo zones, two dual zones or three common zones plus an individual zone. In other words, two Sonos Connects (for instance) might be divided between kitchen and patio (A+B zones) and Master Bedroom and Bath (C+D).

- 8 x 50 watts / channel @ 8 ohms
- Fan cooled
- Rack mount (rack ears included)
- RCA analog inputs
- Input source linking
- 12 volt trigger, signal sensing
- Buffered link output
- Five way binding posts
- Detachable AC cord
- Sum to Mono on Channel A input
- 2-way RS232 with independent channel power and volume controls
- 2U cabinet

Available in black finish only

# 8-Channel Custom Installation Amplifier with DACs



- 8 x 50 watts / channel @ 8 ohms
- Fan cooled
- Rack mount (rack ears included)
- RCA analog inputs
- 4 TOSLINK optical inputs
- Input source linking
- 12 volt trigger, signal sensing
- Buffered link output
- Five way binding posts
- Detachable AC cord
- Sum to Mono on Channel A input
- 2-way RS232 with independent channel power and volume controls
- 2U cabinet

The RKB-D850 is essentially the same amplifier as the RKB-850 in terms of power output and features. However, the RKB-D850 also features four optical digital TOSLINK inputs with individual stereo DACs for each pair of channels in addition to the four analog RCA inputs. Each digital input supports up to 24-bit/192kHz LPCM audio.

The RKB-850 and RKB-D850 share many common features including 12-volt triggers, 5-way speaker binding posts, input linking, signal sense, a buffered analog audio pre-output to connect additional RKBs, and an IEC power receptacle with detachable cord.

Available in black finish only

# RKB-D850

Rack ears included with the RKB-850 and RKB-D850



# 8-Channel Custom Installation Amplifier



## RKB-8100

It's no secret the typical long runs of speaker cable in custom installations present real challenges to amplifiers. The best way to maximize the sound quality of custom speakers is to provide them with plenty of high quality power. Identical in terms of features to its 50 watt per channel cousins, but with a full 8 x 100 watts per channel, all channels driven at 8 ohms, the RKB-8100 and RKB-D8100 are Rotel's most sophisticated and powerful custom installation amplifiers.

At only 2U height, with a dual-fan cooled chassis, four front panel trim pots, selectable power control options, a rear panel RS2323 connection and improved input linking, they are the perfect solution for higher performance multizone audio systems.

- 8 x 100 watts / channel @ 8 ohms
- Fan cooled
- Rack mount (rack ears included)
- RCA analog inputs
- Input source linking
- 12 volt trigger, signal sensing
- Buffered link output
- Five way binding posts
- Detachable AC cord
- Sum to Mono on Channel A input
- 2-way RS232 with independent channel power and volume controls
- 2U cabinet

Available in black finish only

# 8-Channel Custom Installation Amplifier with DACs



- 8 x 100 watts / channel @ 8 ohms •
- Fan cooled •
- Rack mount (rack ears included) •
- RCA analog inputs •
- 4 TOSLINK optical inputs •
- Input source linking •
- 12 volt trigger, signal sensing •
- Buffered link output •
- Five way binding posts •
- Detachable AC cord •
- Sum to Mono on Channel A input •
- 2-way RS232 with independent channel power and volume controls •
- 2U cabinet •

RKB-D8100 features the same performance and feature set of the RKB-8100 but adds digital inputs for increased functionality with any digital source component. Both models feature dual SMPS power supplies partnered with a high efficiency, low heat, Class D operation and no compromise audio engineering setting new standards for the customer installation amplifier category.

One of the many custom-friendly features the RKB-D8100 offers is input linking. A second input can source from any 'upstream' input - so B can source from A, C can source from B and D can source from C. You can create four individual stereo zones, two dual zones or three common zones plus an individual zone. In other words, two Sonos Connects (for instance) might be divided between kitchen and patio (A+B zones) and Master Bedroom and Bath (C+D).

Available in black finish only

# RKB-D8100

Rack ears included with the RKB-8100 and RKB-D8100



# Custom Installation Amplifiers



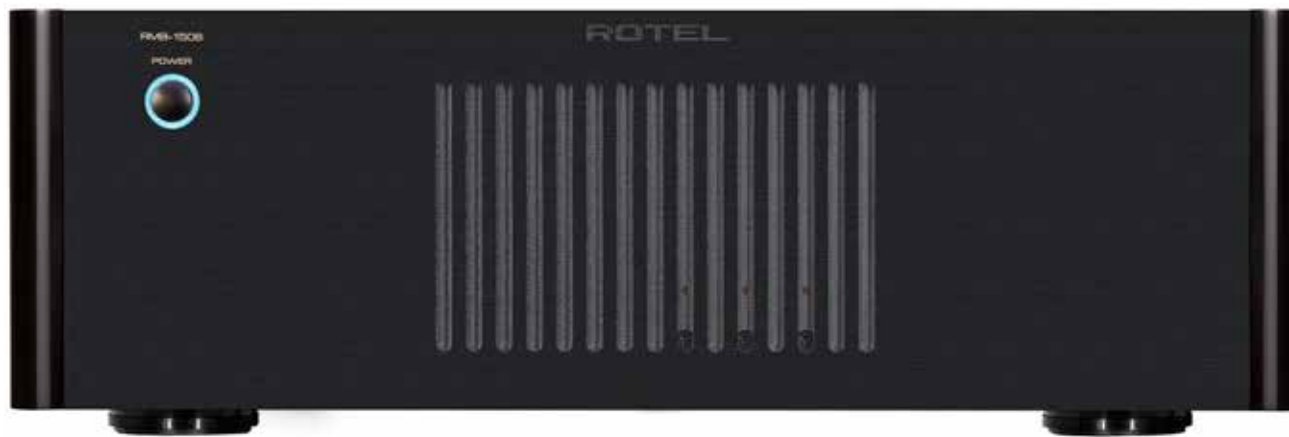
# RMB-1512

12-Channel Installation Amplifier

No longer do you need to purchase several large amplifiers to obtain a high performance multizone audio system. The RMB-1512 features an advanced Class D design that provides plenty of power (12 x 100 watts into 8 ohms) for the most demanding multizone audio systems, but never runs the danger of overheating itself or other electronic components placed in the same vicinity. The RMB-1512 features everything needed for remote operation and custom installation including 12 volt trigger, input linking, sum-to-mono, buffered link output, front panel attenuation control, five-way binding posts and screw terminals.

- 12 x 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 (5.25") Cabinet with included rack ears

Available in black finish only



- 6 x 50 watts / channel @ 8 ohms
- High Performance Audio Amplifier
- Analog Quality Class AB Design
- Front Panel Attenuation Control
- Input Linking
- 12 Volt Trigger
- Buffered Link Output
- Five Way Binding Posts
- Detachable AC Cord
- 3U (5.25") Cabinet with included rack ears
- Optional Fan Kit RKBF-1

This amplifier is perfect for less elaborate multizone audio systems and can be mated with any of our surround receivers or our preamp/processor to add music throughout three additional living areas or "zones" of your home. You can also add another RMB-1506 for larger multizone applications. As with all Rotel custom installation amplifiers it includes all of the most wanted custom installation features.

Available in black finish only

# RMB-1506

6-Channel Installation Amplifier



# High Performance Music Systems







# Integrated Stereo Amplifier with Onboard DAC

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 tight-tolerance 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 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.

Also available in black finish

# RA-1570



**Blu-RayDefinition.com**

February 14, 2014, Lawrence D. Devoe M.D.

*"With respect to value received, the RA-1570 integrated stereo amplifier is a wise choice for cost-conscious listeners who want a lot of audio options, great build quality, excellent sound, and ease of operation."*

**Hi Fi Choice (UK)**

*"The amp is breathtakingly powerful and grippy, with excellent dynamic range and a good deal more punch."*



- 2 x120 watts / channel
- Class AB high current design
- Oversized Toroidal Power Supply
- CD, phono (mm), tuner, aux 1, aux 2, XLR input
- Digital inputs - coaxial 1, coaxial 2, optical 1, optical 2, USB Front Panel Connection - Apple Certified Type A, rear panel PC-USB Connection
- Wolfson Premium DAC - 24 bit / 192kHz
- Front USB File Formats - Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC
- Blue Tooth 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

**ROTEL**

# Integrated Stereo Amplifier with Onboard DAC

**TED Magazine**

Quebec, Canada

June / July 2013, Ian Parent

*"TV, CD, vinyl, movies, streaming, I tried them all because I know you will. Would I be happy to keep the Rotel RA-12 for my personal use? The answer is YES!"*

*"The RA-12 is quite an achievement. Very rarely have I heard a component so perfect and impressive"*



# RA-12

Music has changed. Today we can stream it, download it, play whatever we like, whenever we like. But all too often, this convenience has come with a price: sound quality. That is, until now. Our new RA-12 has all the connectivity you need to make the most of your digital music. And the advanced audiophile technology to really bring it to life. The RA-12 - uncompromising sound, for a connected world.

Also available in black finish



- 2 x 60 watts / channel
- Class A/B
- Oversized Toroidal Power Supply
- CD, phono, tuner, aux 1, aux 2 (rear panel)
- Digital inputs - coaxial 1, coaxial 2, optical 1, optical 2 (rear panel), USB Front Panel Connection - Apple Certified Type A (front panel)
- Wolfson Premium DAC - 24 bit / 192kHz
- Front USB File Formats - Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC
- Blue Tooth 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
- Headphone jack
- Detachable AC cord



# RDD-1580

- Wolfson dual DACs
- Front panel USB (Blue Tooth dongle supplied)
- Rear panel PC-USB input supports files up to 24 bit / 192kHz
- Front USB File Formats - Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC
- 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 with included rack ears

# Stereo Digital-to-Analog Converter



**The Absolute Sound**  
May 2014 – Spencer Holbert

*"As with all facets of life there will always be über-expensive gear that can do it better, but the new \$799 Rotel RDD-1580, with its myriad inputs and superb design, represents an affordable option that won't become obsolete in a few years. Plus the RDD-1580 is more than just a checklist of features; it's a true hi-fi component with gripping sonics that run with the best of 'em without running you into debt."*

*"It is by far the best DAC that I've heard in this price range, and probably would beat out most DACs double or triple its price."*



Rotel's new digital-to-analogue converter envelops the listener in the most accurate audio reproduction possible from any digital source, whether it be 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, the RDD-1580 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 which reduces noise and distortion well beyond that a single converter can provide.

Another RDD-1580 advantage lies in its input flexibility. A front panel USB input supports Apple iPod®, iPhone®

and iPad® as well as streaming via Bluetooth with the included adapter. The rear panel PC-USB input supports files up to 24 bit/192kHz in asynchronous mode.

Two sets of rear panel RCA-style coaxial and optical digital inputs are optimized for LPCM data streams. This includes CDs 16-bit/44.1 kHz standard to high definition sources with 24-bit/192 kHz 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 provide electrical storage capabilities 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 approach where specifications alone do not dictate which

electronic parts are selected. Rather, extensive listening tests are carried out under controlled conditions to determine the best way forward. During this time the entire circuit is carefully tuned to provide sonically accurate signal reproduction.

The RDD-1580 provides both single-ended and balanced outputs with RCA and XLR connectors respectively. Recognizing today's changing tastes in audio sources, the RDD-1580 even provides high-current charging capability (2.1 amperes) for an iPad® or similar device to reduce clutter and increase needed desk space while expanding your audio source options.

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

Also available in silver finish



# RC-1570

- CD, Tuner, Aux 1, Aux 2, XLR input
- Phono input for moving magnet
- Wolfson 24bit / 192kHz DAC
- Digital inputs (2 x coax, 2 x optical), one front panel USB (Bluetooth dongle supplied), and one PC-USB rear panel input for up to 24 bit / 192kHz
- Front USB File Formats - Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC
- 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
- 2 x Trigger for 12-volt control
- Detachable AC cord
- 2U cabinet



# Stereo Preamplifier with Onboard DAC



## The Absolute Sound

April 2014, Alan Taffel

*"Long before others, Rotel demonstrated that high-end sound need not come at a high-end price."*

*Rotel is back my friends.  
And it is good."*



Separate components hold the promise of the best possible fidelity, since each device is optimized for its role in the sound reproduction chain. Rotel has been designing and manufacturing high performance components for dedicated enthusiasts for over 50 years. Those decades of experience, along with precise and efficient in-house manufacturing, are fully evident in Rotel separates. As countless reviewers have testified over the years, they rival and frequently exceed the performance of much higher priced offerings. The new RC-1570 stereo preamplifier, a blend of cutting edge digital circuitry with on-board Digital-to-Analog conversion and classic analog stages, is the latest example.

Beneath the clean lines and user friendly fascia of the RC-1570 lies highly sophisticated engineering. Both analog and digital sources have been given equal consideration as today's listener often has several digital

sources, but may also enjoy legacy formats like vinyl LPs. 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. Careful routing of all low level signals has been practiced to ensure impressive signal to noise levels. The result is effortless musical dynamics, impressive detail and scale.

The RC-1570 stereo preamplifier is also extremely flexible. Four digital inputs (2 coax and 2 optical), plus the rear PC-USB handle digital sources up to 24bit/192kHz resolution. The 4 inputs are designed for sources such as TV set-top boxes, flat panel TVs or Blu-ray players for stunning playback. The PC-USB input makes use of audio playback software such as iTunes or Windows Media Player to replay music from your computer digital library.

A Bluetooth dongle is provided to be used with the front USB input. A premium Wolfson stereo D/A converter handles critical conversion from digital data to analog. Analog inputs include balanced XLR connectors (perfect for connecting the RCD-1570 via its XLR outputs) in addition to four pair of conventional RCA inputs. A moving magnet phono stage rounds out the source capability. 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. In short, the RC-1570 is a tremendous value and the perfect upgrade for owners of older analog-only preamplifiers.

Also available in black finish



# Stereo Preamplifier with Onboard DAC



# RC-1590

It's all about control.

The RC-1590 stereo preamplifier has been engineered to the highest audio performance levels and provides an incredible level of control and flexibility for the user. Starting with a high performance power supply consisting of two Rotel custom built toroidal transformers for maximum efficiency and low magnetic fields, these transformers provide low-noise isolation between the analog and digital signals. They are part of a reference-grade power supply consisting of individual analog and digital regulator circuits with custom-made slit-foil capacitors. Slit-foil capacitors have very quick charge/discharge times and low signal loss ensuring tight bass performance.

Rotel engineers wanted to create a reference quality stereo preamplifier to match with our new RB-1590 stereo power amplifier. Every aspect of component selection

and circuit topography was designed and carefully evaluated during multiple listening sessions to ensure the highest fidelity. For example, analog and digital circuits were designed separately, by specialized Rotel teams. Analog inputs are all very low noise circuitry and include a high performance moving magnet phono stage. Digital inputs are fully isolated and feature a precision 32bit 768KHz Digital to Analog Converter (DAC).

The RC-1590 is fully feature-laden with Balanced XLR and Unbalanced RCA inputs and outputs, a TI precision volume control IC, a fixed volume line output, dual mono subwoofer outputs, digital outputs (Coax and Optical), digital inputs (3 Coax and 3 Optical), Aux, CD, and Tuner analog inputs, Internal APTX Bluetooth (supports APTX and standard Bluetooth) with rear mounted external antenna, a front USB iPod with 2.1A charging input, and rear panel PC-USB 24bit 192KHz input supporting DSD (Windows) and DoP (MAC computers DSD over PCM).

Other essential features include a remote control, 2 x 12-volt trigger outputs, a dimmable display, an automatic power off function (configurable), RS232 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.

Also available in black finish

- Separate toroidal transformers for analog 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 analog inputs
- Internal APTX Bluetooth (supports APTX and standard Bluetooth) with rear antenna
- Front USB iPod with 2.1A charging input
- Rear panel PC-USB 24bit 192KHz input supporting DSD (Windows) and DoP (MAC computers DSD over PCM)
- RS232 and IP control for automation system integration

- Internet based software updates
- Detachable IEC power cord
- External IR remote input
- 2 Trigger output
- 3U chassis



# RB-1590

- Dual toroidal transformers
- 8 x British made BHC capacitors
- 2 x 350 watts both channels driven into 8 ohms
- Dual monoblock amplifier design
- XLR Balanced and RCA input
- 2 pair of 5-way speaker binding posts
- 12-volt trigger control
- 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 included rack ears

# Stereo Class A/B Power Amplifier



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 power unrefined 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.

Features include: XLR Balanced and RCA input connections, two pair of 5-way speaker binding posts, 12-volt trigger control, thermal protection circuitry, over-current, over-voltage protection circuitry, dual staged power on relay to reduce surge current and extend longevity, and a detachable IEC power cord all in a 5 U 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.

Also available in silver finish

# Stereo Class A/B Power Amplifiers



## RB-1582 MKII

The RB-1582MKII stereo amplifier at 200 watts per channel provides the massive current to drive the very largest Hi-Fi systems effortlessly. And like its smaller brother, the RB-1582MKII has been designed to excel at resolving the subtle details in music as well as supplying the brawn required for extremely dynamic passages. It is able to achieve this difficult dual requirement because of the meticulous attention paid to circuit design and parts selection.

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

Also available in silver finish

- 2 x 200 watts / channel @ 8 ohms
- Dual gold finished speaker binding posts
- Toroidal transformer
- High efficiency Slit foil capacitors
- RCA and XLR inputs
- Trigger for 12 volts control
- Detachable AC cord
- 3U cabinet with included rack ears



#### The Absolute Sound

April 2014, Alan Taffel

*"Long before others, Rotel demonstrated that high-end sound need not come at a high-end price."*

#### The Absolute Sound

2014 Product of the Year Awards

*"Modestly priced audio products may not be able to produce the "absolute sound," but the best of them can fully deliver the heart of the high end. Rotel's RB-1552 MkII falls decisively into this category."*

#### SoundStage! Network

March 24, 2014, Erich Wetzel

*"...this Rotel should be on your shortlist for audition."*



- 2 x 130 watts / channel @ 8 ohms
- Dual gold finished speaker binding posts
- Toroidal transformer
- High efficiency Slit foil capacitors
- RCA and XLR inputs
- Trigger for 12 volts control
- Detachable AC cord
- 3U cabinet with included rack ears

The RB-1552MKII is a 130 watt per channel class A/B amplifier. 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 stereo amplifier has been engineered to provide high-resolution audio performance, yet it is very affordable, as has been the tradition with Rotel electronics for over 50 years.

Also available in silver finish

# RB-1552 MKII



# CD Player

## The Absolute Sound

April 2014, Alan Taffel

*"Modestly priced audio products may not be able to produce the 'absolute sound,' but the best of them can fully deliver the heart of the high end. Rotel's 1570/1552 stack falls decisively into this category, forming an incredibly affordable, versatile system that conveys all the music you could want—and more—with very few trade offs. Rotel is back my friends. And it is good."*



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/stereo digital-to-analog 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 8 kHz to 192 kHz.

While word lengths and sampling speed may seem excessive for CDs delivering data at far lower rates, this high speed facility adds reserve capability to ensure proper reproduction under all circumstances. As the most

crucial link between a CD's digital data and the analog world in which we listen, this converter boasts significant attributes in addition to its superb high resolution capabilities.

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

The post-converter analog circuitry benefits from Rotel's decades-long experiences in crafting the finest sounding pathway from the D/A's internal output to single and balanced rear panel connectors that bridge the gap between the RCD-1570 and down-stream 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 globally-sourced to ensure musically accurate operation under even the most demanding conditions.

XLR connectors provide balanced outputs, long recognized 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. It's yet another way of assuring you that the RCD-1570 evidences a level of attention that will make it part of your reference-level music system for years to come.

Also available in black finish





- Slot loading
- Wolfson 24 bit / 192kHz DAC
- Toroidal Transformer
- RCA and XLR Outputs
- Coaxial digital output
- RS-232 control
- 12 volt trigger
- Detachable AC cord
- 2U cabinet

# RCD-1570

# Specifications

<b>Model</b>	<b>RSX-1562</b>
<b>Audio</b>	
<b>Continuous Amplifier Power</b>	100 watts/ch (7 channels driven) (20-20kHz, <0.05% THD, 8 ohms)
<b>Continuous Amplifier Power Total Harmonic Distortion</b>	200 watts (1kHz, <1.0% THD, 4 ohms, DIN) <0.008%
<b>Frequency Response</b>	10Hz - 120kHz, ±3dB (analog bypass) 10Hz - 95kHz, ±0.3dB (digital input)
<b>Signal to Noise Ratio</b> (IHF A-weighted)	95 dB (analog bypass) 92 dB (Dolby Digital, DTS) 0 dBFS
<b>Input Sensitivity/Impedance</b>	Line Level: 200 mV/100k ohms
<b>Preamp Output Level/Output Impedance</b>	1.0V/1k ohms
<b>Decodable Digital Input Signals</b>	Dolby Digital, Dolby Digital EX, Dolby Pro Logic IIz, DTS, DTS-ES, DTS 96/24, DTS-ES 96/24, LPCM (up to 192k). Lossless audio formats (using HDMI 1.4): Dolby TrueHD and DTS HD Master Audio.
<b>Decodable USB/iPod® Digital Input Signals</b>	AIFF, AAC(m4a), WAV, MP3, WMA
<b>Video</b>	
<b>Input Resolution</b>	480i/576i, 480p/576p, 720p, 1080i 1080p, 1080p 24Hz, 3D (HDMI only)
<b>Output Resolution</b>	480i/576i (Composite only), 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 3D (HDMI only)
<b>Signal to Noise Ratio</b>	45dB
<b>Input Impedance</b>	75 ohms
<b>Output Impedance</b>	75 ohms
<b>Output Level</b>	1 V
<b>HDMI Inputs/Outputs</b>	Version 1.3, supporting Deep Color passthrough and Broad Color Space passthrough. Version 1.4, supporting 3D passthrough and Audio Return Channel
<b>FM Tuner</b>	
<b>Usable Sensitivity</b>	14.2 dB
<b>Signal to Noise Ratio</b> (at 65dB)	70 dB
<b>Harmonic Distortion</b> (at 65dB)	0.03%
<b>Stereo Separation</b> (1 kHz)	45 dB
<b>Output level</b>	1 V
<b>Antenna Input (unbalanced)</b>	75 ohms
<b>AM Tuner</b>	
<b>Sensitivity</b>	50 µV/m
<b>Signal to Noise Ratio</b>	40 dB
<b>Output Level</b>	500 mV
<b>Antenna Input</b>	Loop Antenna
<b>Power Consumption</b>	500 watts, 0.5 watt (Standby)
<b>Power Requirements (AC)</b>	120 volts, 60 Hz (USA version) 230 volts, 50 Hz (EC version)
<b>Weight</b>	15.5kg/34.17 lb
<b>Dimensions</b> (W x H x D) mm	431 x 188 x 422mm
<b>Dimensions</b> (W x H x D) in	17 x 7 1/2 x 16 5/8 in
<b>Front Panel Height</b> (feet removed for rack mount)	4U/176.8mm/7 in

<b>Model</b>	<b>RSP-1572</b>
<b>Audio</b>	
<b>Total Harmonic Distortion</b>	<0.008%
<b>IM Distortion</b> (60Hz:7kHz)	<0.008%
<b>Frequency Response</b>	10Hz - 120kHz, ±3dB (analog bypass) 10Hz - 95kHz, ±0.3dB (digital input)
<b>Signal to Noise Ratio</b> (IHF A-weighted)	95 dB (analog bypass) 92 dB (Dolby Digital, DTS) 0 dBFS
<b>Input Sensitivity/Impedance</b>	Line Level: 200 mV/100k ohms
<b>Preamp Output Level/Output Impedance</b>	1.0V/1k ohms
<b>Decodable Digital Input</b>	Dolby Digital, Dolby Digital EX, DTS, DTS-ES, DTS 96/24, DTS-ES 96/24, LPCM (up to 192k). Lossless audio formats (using HDMI 1.3): Dolby TrueHD and DTS HD Master Audio.
<b>Signals</b>	AIFF, AAC(m4a), WAV, MP3, WMA
<b>Decodable USB/iPod® Digital Input Signals</b>	
<b>Video</b>	
<b>Input Resolutions</b>	480i/576i, 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 3D (HDMI only)
<b>Output Resolution</b>	480i/576i (Composite only), 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 3D (HDMI only)
<b>Signal to Noise Ratio</b>	45 dB
<b>Input Impedance</b>	75 ohms
<b>Output Impedance</b>	75 ohms
<b>Output Level</b>	1.0 volt
<b>HDMI Inputs/Outputs</b>	Version 1.3, supporting Deep Color passthrough and Broad Color Space passthrough. Version 1.4, supporting 3D passthrough and Audio Return Channel
<b>Power Consumption</b>	60 watts, 0.5 watt (standby)
<b>Power Requirements (AC)</b>	120 volts, 60 Hz (USA version) 230 volts, 50 Hz (EC version)
<b>Weight</b>	9.7kg/21.38 lb
<b>Dimensions</b> (W x H x D) mm	431 x 143 x 338mm
<b>Dimensions</b> (W x H x D) in	17 x 5 5/8 x 13 1/2 in
<b>Front Panel Height</b> (feet removed for rack mount)	3U/132.6mm/5 1/4 in

<b>Model</b>	<b>RSP-1582</b>
<b>Audio</b>	
<b>Total Harmonic Distortion</b>	<0.008%
<b>Intermodulation Distortion</b> <b>(60Hz : 7kHz, 4:1)</b>	<0.008%
<b>Frequency Response</b>	10Hz - 100kHz, ±1.5dB (analog bypass) 10Hz - 20kHz, ±0.3dB (digital input)
<b>Signal to Noise Ratio</b> <b>(A-weighting)</b>	100dB (analog bypass) 92dB (Dolby Digital, DTS) 0dBFS
<b>Input Sensitivity</b>	Line Level: 250 mV/100k ohms
<b>Balance Level:</b>	250 mV/100k ohms
<b>Output Level</b>	
<b>Line Level (RCA):</b>	1.0 V
<b>Balance Level (XLR):</b>	2.0 V
<b>Channel Separation</b>	>75 dB (at 10kHz)
<b>Digital Audio</b>	Dolby Digital, Dolby Digital EX, DTS, DTS-ES, DTS 96/24, DTS-ES 96/24, LPCM (up to 192kHz 24bits)
<b>Lossless Compressed Digital Audio</b>	Lossless Compressed Digital Audio, Dolby® TrueHD, Dolby® Digital Plus, DTS™ HD Master Audio
<b>Video</b>	
<b>HDMI standard</b>	Audio Return Channel, 3D, Deep Color, 2K, 4K Pass-Through
<b>Input Resolutions</b>	480i, 576i, 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 2K, 4K
<b>Output Resolutions</b>	480i, 576i, 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 2K, 4K
<b>Deep Color Support</b>	24bits
<b>Power</b>	
<b>Power Requirements</b>	USA: 120 Volts, 60 Hz EC: 230 Volts, 50 Hz
<b>Power Consumption</b>	45W
<b>Standby Power</b>	<0.5W
<b>Consumption</b>	
<b>BTU</b>	140 BTU/h
<b>Dimensions</b> (W x H x D)	431 x 188 x 417mm 17 x 7 2/5 x 16 2/5 in
<b>Front Panel Height</b>	4U (177mm, 7 in)
<b>Weight</b> (net)	12 kg, 26.46 lbs

<b>Model</b>	<b>RMB-1585</b>	<b>RMB-1555</b>	<b>RMB-1575</b>	<b>RB-1572</b>
<b>Power Output all channels driven</b>	200 watts x 5ch (20Hz-20kHz, <0.03% THD, 8 ohms)	120 watts x 5ch (20Hz-20kHz, <0.03% THD, 8 ohms)	250 watts x 5ch (20Hz-20kHz, 0.03% THD, 8 ohms) 500 watts x 5ch (20-20 kHz, 0.03% THD, 4 ohms)	250 watts x 2ch (20Hz-20kHz, 0.03% THD, 8 ohms) 500 watts x 2ch (20-20 kHz, 0.03% THD, 4 ohms)
<b>IM Distortion</b>	< 0.03%	< 0.03%	< 0.03%	< 0.03%
<b>Damping Factor (8 ohms)</b>	260	180	400	400
<b>Gain</b>	26.5 dB	26.5 dB	27.1 dB	27.1 dB
<b>Input Sens. / Impedance</b>	1.5 V / 12 k ohms	1.5 V / 12 k ohms	1.5 V / 8.3 k ohms	1.5 V / 8.3 k ohms
<b>Frequency Response</b>	10Hz - 100kHz (±3dB)	10Hz - 100kHz (±3dB)	10 - 80 kHz (±3dB)	10 - 80 kHz (±3dB)
<b>S/N Ratio (IHF A)</b>	116 dB	116 dB	109 dB	109 dB
<b>Power Consumption</b>	800 watts	650 watts	600 watts	280 watts
<b>Dimensions (W x H x D) mm</b>	431 x 237 x 454mm	431 x 188 x 454mm	431 x 144 x 406mm	431 x 99 x 339mm
<b>Dimensions (W x H x D) in</b>	17 x 9 3/8 x 17 7/8 in	17 x 7 1/2 x 17 7/8 in	17 x 5 5/8 x 16 in	17 x 3 7/8 x 13 3/8 in
<b>Front Panel Height</b>	5U (8 3/4")	4U (7")	3U (5.25")	2U (3.5")
<b>Shipping Weight</b>	96 lb (Include rack ears)	62 lb (Include rack ears)	29.7 lb	20 lb

<b>Model</b>	<b>RKB-850</b>	<b>RKB-D850</b>	<b>RKB-8100</b>	<b>RKB-D8100</b>	<b>RMB-1512</b>	<b>RMB-1506</b>
<b>Power Output all channels driven</b>	50 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)	50 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)	100 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)	100 watts x 8ch (20Hz-20kHz, <0.1% THD, 8 ohms)	100 watts x 12ch (20 Hz-20kHz, < 0.03% THD, 8 ohms) 200 watts x 12ch (20 Hz-20kHz, < 0.03% THD, 4 ohms)	50 watts x 6ch (20 Hz-20kHz, < 0.03% THD, 8 ohms) 80 watts x 6ch (DIN 1K Hz, 1.0% THD)
<b>IM Distortion</b>	< 0.08%	< 0.08%	< 0.08%	< 0.08%	< 0.03%	< 0.03%
<b>Damping Factor (8 ohms)</b>	>150	>150	>150	>150	200	200
<b>Gain</b>	30 dB	30 dB	30 dB	30 dB	27.2 dB	26 dB
<b>Input Sens. / Impedance</b>	100k ohms / 0.6V	50k ohms / 0.6V	100k ohms / 0.9V	50k ohms / 0.9V	1.25 V/8.3kohms	1.0 V / 20kohms
<b>Frequency Response</b>	20Hz - 20kHz, +0dB/-1.4dB	20Hz - 20kHz +0dB/-1.4dB	20Hz - 20kHz, +0dB/-1.4dB	20Hz - 20kHz, +0dB/-1.4dB	10Hz-40kHz (±3dB)	10Hz-100kHz (±3dB)
<b>S/N Ratio (IHF A)</b>	108 dB	108 dB	108 dB	108 dB	105 dB	115 dB
<b>Power Consumption</b>	150 watts	150 watts	300 watts	300 watts	660 watts	450 watts
<b>Dimensions (W x H x D) mm</b>	430 x 97 x 424 mm	430 x 97 x 424 mm	430 x 97 x 424 mm	430 x 97 x 424 mm	431 x 144 x 407mm	431 x 144 x 424mm
<b>Dimensions (W x H x D) in</b>	17 x 3 7/8 x 16 3/4 in	17 x 3 7/8 x 16 3/4 in	17 x 3 7/8 x 16 3/4 in	17 x 3 7/8 x 16 3/4 in	17 x 5 5/8 x 16 in	17 x 5 5/8 x 16 5/8 in
<b>Front Panel Height</b>	2U (3 1/2")	2U (3 1/2")	2U (3 1/2")	2U (3 1/2")	3U (5.25")	3U (5.25")
<b>Shipping Weight</b>	27 lb	27 lb	28 lb	29 lb	28 lb	42.10 lb

<b>Model</b>	<b>RB-1552 MkII</b>	<b>RB-1582 MkII</b>	<b>RB-1590</b>
<b>Power Output all channels driven</b>	130 watts x 2ch (20Hz-20kHz, < 0.03% THD, 8 ohms)	200 watts x 2ch (20Hz-20kHz, < 0.03% THD, 8 ohms)	350 watts/ch (20 - 20kHz, <0.03%, 8 ohms)
<b>IM Distortion</b>	< 0.03%	< 0.03%	<0.03% (60Hz : 7kHz, 4 : 1)
<b>Damping Factor (8 ohms)</b>	450	800	300
<b>Input Sens. / Impedance</b>			
<b>Unbalanced</b>	12k ohms/1.5 volt	12k ohms/1.9 volt	12k ohms / 2.2 volt
<b>Balanced</b>	100k ohms/2.5 volt	100k ohms/3.0 volt	100k ohms /3.5 volt
<b>Frequency Response</b>	10-100kHz (±0.5dB)	10-100kHz (±0.5dB)	10Hz - 100kHz (±0.5dB)
<b>S/N Ratio (IHF A)</b>	120 dB	116 dB	120 dB
<b>Power Consumption</b>	400W	500W	800W
<b>Dimensions (W x H x D) mm</b>	431 x 144 x 339mm,	431 x 144 x 407mm	431 x 237 x 454mm
<b>Dimensions (W x H x D) in</b>	17 x 5 7/8 x 13 3/8 in	17 x 5 7/8 x 16 in	17 x 9 3/8 x 17 7/8 in
<b>Front Panel Height</b>	3 U (5.25")	3U (5.25")	5U (8 3/4")
<b>Shipping Weight</b>	35 lb	50 lb	100.31 lb

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# Specifications

Model	RA-1570	RA-12
<b>Continuous Power Output</b> (20Hz – 20kHz, < 0.03%, 8 ohms)	120 watts/channel	60 watts/channel
<b>Total Harmonic Distortion</b> (20Hz-20kHz)	< 0.03% at rated power, 1/2 power, or 1 watt	< 0.03% at rated power
<b>Intermodulation Distortion</b> (60Hz : 7kHz, 4:1)	< 0.03% at rated power, 1/2 power or 1 watt	< 0.03% at rated power
<b>Frequency Response</b>		
Phono Input	20Hz-20kHz (±0.5 dB)	20Hz-15kHz (±0.3 dB)
Line Level Inputs	10Hz-100kHz (+1, -3 dB)	10Hz-100kHz (±1 dB)
<b>Damping Factor</b> (20Hz-20kHz, 8 ohms)	180	180
<b>Input Sensitivity / Impedance</b>		
Phono Input (MM)	2.25mV / 68k ohms	2.5mV / 47 k ohms
Line Level Inputs (RCA)	285mV / 100k ohms	150mV / 24 k ohms
Line Level Inputs (Balanced)	570mV / 100k ohms	
<b>Input Overload</b>		
Phono Input	30mV	180mV
Line Level Inputs	4V	5V
<b>Preamplifier Output / Impedance</b>	1.5V / 470 ohms	1V / 470 ohms
<b>Signal to Noise Ratio</b> (IHF "A" weighted)		
Phono Input	80 dB	80 dB
Line Level Inputs	100 dB	100 dB
<b>Digital Section</b>		
<b>Frequency Response</b>	10Hz - 95kHz (±3.0 dB, Max)	10Hz-95kHz (±3.0 dB, Max)
<b>Signal to Noise Ratio</b> (IHF "A" weighted)	100 dB	100 dB
<b>Input Sensitivity/Impedance</b>	0 dBfs/75 ohms	0 dBfs/75 ohms
<b>Preout Level/Impedance</b>	1.2 V/470 ohms (at -20 dB)	1.2V/470 ohms (at -20dB)
<b>Front USB File Formats</b>	Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC	Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC
<b>Coaxial/Optical Digital Signals</b>	SPDIF LPCM (up to 192kHz 24 bit)	SPDIF LPCM (up to 192kHz 24 bit)
<b>PC-USB</b>	USB Audio Class 1.0 (up to 24 bit/96kHz) USB Audio Class 2.0 (up to 24 bit/192kHz)* *Driver installation required	
<b>PC-USB File Decoding</b>	Plays all file types supported by PC software player up to 24bit 192kHz	
<b>Power Requirements</b>		
USA	120 volts, 60Hz	120 volts, 60Hz
EC	230 volts, 50Hz	230 volts, 50Hz
<b>Power Consumption</b>	400 watts	300 watts
<b>Standby Power Consumption</b>	< 0.5 watts	< 0.5 watts
<b>Dimensions (W x H x D)</b>	431 x 144 x 350mm 17 x 5 7/8 x 13 3/4 in	430 x 92 x 342mm 17 x 3 5/8 x 13 1/2 in
<b>Front Panel Height</b>	3U / 132.6mm / 5 1/4 in	80mm / 3 1/16 in
<b>Weight (net)</b>	13kg, 28.7 lb	8.02kg, 18 lb

Model	RDD-1580
<b>Audio</b>	
<b>Total Harmonic Distortion</b>	<0.004%
<b>Intermodulation Distortion</b> (60Hz:7KHz)	<0.004%
<b>Frequency Response</b>	10Hz - 95kHz (±3.0 dB)
<b>Signal to Noise Ratio</b> (IHF A-weighted)	128 dB
<b>Input Sensitivity / Impedance</b>	0 dBfs / 75 ohms
<b>Line Output Level / Impedance (RCA)</b>	2.0V / 100 ohms
<b>Line Output Level / Impedance (XLR)</b>	4.0V / 200 ohms
<b>Front USB File Formats</b>	Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC
<b>Decodable Coaxial/ Optical Digital Signals</b>	SPDIF LPCM (up to 24 bit 192kHz)
<b>PC-USB File Decoding</b>	Plays all file types supported by PC software player up to 24bit 192kHz
<b>General</b>	
<b>Power Requirements (AC)</b>	120V, 60Hz (USA) 230V, 50Hz (Europe)
<b>Power Consumption</b>	25 watts
<b>Standby Power Consumption</b> (normal mode)	< 0.5 watts
<b>Dimensions (W x H x D)</b>	431 x 55 x 316mm 17 x 2 1/8 x 12 1/2 in
<b>Front panel height</b>	1U / 43.7mm / 1 3/4 in
<b>Weight (net)</b>	5.1kg/11.24 lb

<b>Model</b>	<b>RCD-1570</b>
<b>Total Harmonic Distortion + Noise</b>	0.0045% @ 1kHz
<b>Frequency Response</b>	20Hz-20kHz (±0.5 dB)
<b>Channel Balance</b>	± 0.5 dB
<b>Channel Separation</b>	> 98 dB @ 1kHz
<b>Signal to Noise Ratio</b>	> 100 dB
<b>Dynamic Range</b>	> 96 dB
<b>Digital to Analog Converters</b>	Wolfson
<b>Speed Accuracy, Wow &amp; Flutter</b>	Quartz Crystal Precision
<b>Analog Output Level / Impedance (0dBFs)</b>	
Unbalanced (RCA)	2.0 volts / 100 ohms
Balanced (XLR)	4.0 volts / 200 ohms
<b>Digital Output Level (coax)</b>	0.5 volt, Peak to Peak
<b>Digital Output Impedance</b>	75 ohms
<b>Power Requirements</b>	
USA Version	AC 120V, 60Hz
European Version	AC 230V, 50Hz
<b>Power Consumption</b>	15 watts
<b>Dimensions (W x H x D)</b>	431 x 99 x 320mm 17 x 4 x 12 5/8 in
<b>Front Panel Height (for rack mount)</b>	2U / 88.1mm / 3 1/2 in
<b>Weight (net)</b>	6.7kg, 14.74 lb

<b>Model</b>	<b>RC-1570</b>
<b>Total Harmonic Distortion (20Hz-20kHz)</b>	< 0.004%
<b>Intermodulation Distortion (60 Hz : 7 kHz, 4:1)</b>	< 0.004% at 1V output
<b>Input Sensitivity / Impedance</b>	
Phono Input (MM)	2.5 mV / 47k ohms
Line Level Inputs (RCA)	150 mV / 24k ohms
Line Level Inputs (XLR)	300 mV / 100k ohms
<b>Input Overload</b>	
Phono Input	65 mV
Line Level Inputs	4.3 V
<b>Output Level / Impedance</b>	
Output (RCA)	1V / 100 ohms
Output (XLR)	2V / 100 ohms
<b>Frequency Response</b>	
Phono Input	20 Hz-20k Hz, 0 (±0.3 dB)
Line Level Inputs	4 Hz-100k Hz, 0 (±0.3 dB)
<b>Tone Controls</b>	
Bass	±10 dB at 100Hz
Treble	±10 dB at 10kHz
<b>Signal to Noise Ratio (IHF "A" weighted)</b>	
Phono Input	80 dB
Line Level Inputs	110 dB
<b>Digital Section</b>	
<b>Frequency Response</b>	10Hz - 95k Hz (±3dB)
<b>Signal to Noise Ratio (IHF "A" weighted)</b>	100 dB
<b>Input Sensitivity/Impedance</b>	0 dBFs / 75 ohms
<b>Front USB File Formats</b>	Apple Lossless, MP3, AAC, AIFF, WAV, WMA, OGG Vorbis, M4A/AAC
<b>Coaxial/Optical Digital Signals</b>	SPDIF LPCM (up to 192kHz 24 bit)
<b>PC-USB</b>	USB Audio Class 1 (up to 96kHz 24 bit) USB Audio Class 2 (up to 192kHz 24bit)* *Driver installation required
<b>PC-USB File Decoding</b>	Plays all file types supported by PC software player up to 24bit 192kHz
<b>Power Requirements</b>	
USA	120 Volts, 60 Hz
EC	230 Volts, 50 Hz
<b>Power Consumption</b>	15 watts
<b>Standby Power Consumption</b>	< 0.5 watts
<b>Dimensions (W x H x D)</b>	431 x 99 x 320mm 17 x 4 x 12 5/8 in
<b>Front Panel Height</b>	2U / 88.1mm / 3 1/2 in
<b>Weight (net)</b>	7kg, 16 lb

<b>Model</b>	<b>RC-1590</b>
<b>Total Harmonic Distortion (20Hz - 20kHz)</b>	<0.002%
<b>Input Sensitivity/Impedance</b>	
Phono Input (MM)	2.5 mV / 47k ohms
Line Level Inputs (RCA)	150 mV / 100k ohms
Line Level Inputs (XLR)	250 mV / 100k ohms
<b>Output Level</b>	
Line Level (RCA)	1 V
Balanced (XLR)	2 V
<b>Frequency Response</b>	
Phono Input	20Hz - 20kHz, 0 ±0.2 dB
Line Level Inputs	10Hz - 100kHz, 0 ±0.1 dB
<b>Signal to Noise Ratio (A weighting)</b>	
Phono Input	80 dB
Line Level Inputs	112 dB
<b>Channel Separation</b>	
Phono Input	>75 dB
Line Level Inputs	>75 dB
<b>Digital Section</b>	
<b>Frequency Response</b>	20Hz - 20kHz, (±0.5 dB, Max)
<b>Signal to Noise Ratio (A weighting)</b>	108 dB
<b>Digital Inputs</b>	SPDIF LPCM (up to 192kHz 24 bit)
<b>PC-USB</b>	USB Audio Class 1.0 (up to 96kHz 24bit) USB Audio Class 2.0 (up to 192kHz 24bit)* *Driver installation required DSD Replay - native or DoP
<b>Power Requirements</b>	
USA	120 V, 60 Hz
EC	230 V, 50 Hz
<b>Power Consumption</b>	25 watts
<b>Standby Power Consumption</b>	<0.5 watts
<b>BTU</b>	78 BTU/h
<b>Dimensions (W x H x D)</b>	431 x 144 x 348mm, 17 x 5 7/8 x 13 7/9 in
<b>Front Panel Height</b>	3U (132.6mm, 5 1/4 in)
<b>Weight (net)</b>	9.2 kg, 20.28 lbs.

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# Back Panels



RSX-1562



RSP-1582



RMB-1555



RA-1570



RC-1590



RKB-D8100



RMB-1585





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