

06 SE Series

ROTEL





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A quiet word, if we may.

There's something you ought to know about the new 06 special edition Series. We've spent enormous amounts of time maximising the enjoyment and value for money you'll get from our new range of separates. But we might have been less attentive than some people would like towards the way they look.

Don't get us wrong. We think our 06 SE Series separates are very easy on the eye. Deliberately understated, you could say. Certainly not the kind of components that make an exhibition of their masculine physiques or wink their LEDs seductively in the direction of strangers.

We leave front-panel pyro-technics to others. Our first concern is with the chemistry behind the buttons: sourcing, testing and selecting parts that will convey your music with warmth, vibrancy and sensitivity. Balancing experience and experimentation in the pursuit of quality and enjoyment. Creating a sound that keeps getting better the more you hear it. And provides a series step up from the original 06 series delivering that sound for a price that's resolutely unpretentious.

One last thing. If you want audio equipment that's going to be noticed, let us guide you elsewhere. If you want the sound of your equipment to attract attention, turn the page.



Sounding different

Single-minded The reason why we're able to put things like pleasure, quality and value first, and give the giants of the audio industry a run for their money, is that we're not like them. Rotel is a family-owned business. We don't make MP3 players, PCs or TVs. We're specialists. We make sound, for music and home theatre systems. And that's all we've been doing for nearly half a century. Our engineers lead the field in maximising the accuracy of audio components within affordable limits. Being the biggest doesn't interest us. Being the best does.

Far-sighted Rotel products are Rotel creations; we never buy in and badge other people's equipment. That's because we source skills and parts with a global sensibility. Today it's widely regarded as best practice, but we brought together Far Eastern manufacturing know-how and European engineering prowess over 25 years ago. Each product is designed in Japan but its prototypes are auditioned exhaustively by a development team in the UK. They refine the sound by substituting parts or adjusting tolerances. Finally, when the circuit design has been optimised, expert production engineers at our quality-assured plant in China prepare the product for manufacture.

Influential We measure our value as a company by the value we pass on to our customers. It goes back to the early 1980s, when we decided we didn't want to be just another audio company sacrificing quality of performance for quantity of 'features'. We changed direction and started producing no-frills components that sounded twice as expensive as the price we asked for them. A new category of audio was born, meeting the needs of music-lovers: we call it the 'affordable high-end' category. We've led it from day one and, with the O6 SE Series, created a new benchmark that others will struggle to match.



RT-09 The dawn of a new era of Rotel products. The RT-09 is Rotel's first internet radio. It connects via wireless for quick and easy access to thousands of stations. Plus, the USB socket for a media player lets you access your own music. Audiophile-quality DACs and components also maintain high-quality sound for DAB and FM.

Photography by York Tillyer, images courtesy of Real World Records, www.realworldrecords.com



Balanced Design Concept

*Balanced
Design
Concept*

To us, extraordinary sound and unexceptional prices are the natural order of things. And it comes about because our engineers practice something called Balanced Design. This concept strikes a balance between the 'price-no-object' engineering of high-end audio brands and the price orientated approach typically taken with most mass-market equipment. Performance and price in equilibrium.

Balanced Design came about because our engineers are, themselves, music-lovers who nurture their designs like doting parents. It has just two simple laws:

1. The best-sounding parts are not necessarily the most costly;
2. No single design element should be emphasised if it causes performance in any other part of the product to suffer.

And we apply them to four key stages in the design process: when we're engineering the power supply and the circuit layout, and when we're evaluating the product and selecting parts.

“We've found that human hearing is more sensitive than even sophisticated instruments.”



Parts selection Rotel engineers spend many hours listening to and selecting electronic parts from potential suppliers to give our components the best reliability and acoustic advantages. It costs a little more, but we believe the benefits further differentiate Rotel's quality from mainstream audio/video manufacturers.



Circuit topology It's not enough to simply use better parts. Where you put them is equally important. That's why we rely heavily on something we call Symmetrical Signal Trace design. This keeps each channel's signal path identical to the others to preserve imaging and sound staging. We also use "star" grounding techniques wherever possible to improve performance (a method of terminating all ground points in a starshaped pattern on a single plane that reduces ground potential).



Critical evaluation We've found that human hearing is more sensitive than even sophisticated instruments in the hands of experienced engineers. We set up listening sessions at various development stages, not just the final pre-production prototype, to ensure the performance of a new model is as good as it can possibly be.

Power Supply This lies at the heart of any high-quality audio equipment, and our engineers dedicate a large amount of time designing and testing this vital component. Everything from the physical layout and wiring to the careful selection of smoothing and reservoir capacitors gets the upmost attention. And at every stage of the selection process, upmost in their minds is how the changes will affect sound quality.



RT-09

FM Tuner	Usable Sensitivity	22.2dBf
	Harmonic Distortion (at 65 dBf)	0.2% (mono) 0.3% (stereo)
	Frequency Response	10 Hz-15kHz, ±3dB
	Output level	1.1V
	Antenna Input	75 ohms unbalanced
DAB Tuner	Sensitivity -80dBm	
	Tuning Range	Band III (174-240MHz)
	Frequency Response	20 – 20KHz ±1.0dB
	Antenna Input	75 ohms F connector
Audio USB(front)/AUX	Signal to Noise Ratio (IHFA) 90dB	
	Total Harmonic Distortion (0dBfs)	0.2%
	Output Level (0dBfs)	2.2V
General	Power consumption	16 watts
	Weight (net)	5.1 kgs 11.24 lbs
	Dimensions (W x H x D)	437 x 93 x 311.5 mm
	Front panel height	80mm, 31/8 in

For the complete list of specifications visit www.rotel.com



If you haven't sampled DAB radio yet, the RT-09 tuner is the perfect place to start exploring. And if your local network is too limited for you, internet radio offers you a whole world of options.

If you take your MP3 player wherever you go, it's good to be able to plug it easily into a high-quality system at home. The RT-09 has a handily-placed USB socket, that allows you to connect your media players with ease any time you want.

Rotel doesn't rush into new technology. Close to five decades of experience and a heritage based on high-quality sound mean that until a new technology can be made to sound as good as the Rotel name warrants, Rotel will keep working on it.

The RT-09 is the perfect example of this. DAB and FM reception are joined by internet radio for the first time on a Rotel product. Wolfson DACs and audiophile-quality components keep performance levels extremely high.

Wireless connectivity and an easily-accessed USB socket for connecting media players are more than just quirky features; they are user-friendly necessities.



Any 06 SE model can be controlled via its own remote control or as part of an 06 SE Series system via the System Remote included with the RA-05 SE and RA-06 SE integrated amplifiers. System Power On/Standby is achieved via rear panel 12-volt triggers.

RCD-06 SE

CD Player

Total Harmonic Distortion + Noise	0.0045% @ 1kHz
Intermodulation Distortion	0.0045% @ 1kHz
Frequency Response (± 0.5dB)	20 – 20,000Hz
Channel Balance	±0.5dB
Phase Linearity	±0.5 degree
Channel Separation	>98dB @ 1kHz
Signal to Noise Ratio	>100dB
Dynamic Range	>96dB
Digital to Analog Converter	Wolfson
Speed Accuracy, Wow & Flutter	Quartz Crystal Precision
Output Impedance	100 Ohms
Digital Output	0.5 Volt, Peak to Peak
Load Impedance	75 Ohms
Power Requirements	AC 230V, 50 Hz
Power Consumption	20 Watts
Dimensions (W x H x D) mm	435 x 73 x 313mm
Panel Height	60mm
Weight (net)	5kg, 11lbs



Externally there's little difference between the RCD-06 SE and the CD player it replaces. The same sleek styling; the build quality that is remarkable at the price. However, internally, the RCD-06 SE has undergone major changes. Many of these are a direct result

of developments made during the creation of the flagship 15 Series of Rotel hi-fi products, and this includes the replacement of the original Burr Brown DAC with a new model from Wolfson.

- High-precision, over-scanning disc mechanism
- Wolfson 24 bits, high performance 192 kHz, Stereo DAC
- Symmetrical circuit board layout
- Short signal path routing
- UK-designed metal film resistors
- US-made super low-noise resistors
- A suite of four independent internal power supplies
- 12v trigger power control

RA-06 SE

Integrated Amplifier

Continuous Power Output	(20 – 20kHz, <0.03%, 8 ohms) 70 watts/ch
Total Harmonic Distortion (20Hz-20kHz)	<0.03% at rated power, 1/2 power or 1 watt
Frequency Response	Phono Input (MM): 20Hz – 15kHz: ±0.3dB Line Level Inputs: 10Hz – 100kHz: +1, -3dB
Input Sensitivity / Impedance	Phono Input (MM): 2.8mV / 47kOhms Line Level Inputs: 170mV / 24kOhms
Pre-amp Output / Impedance	1V / 470 Ohms
Tone Controls – Bass / Treble	±6dB at 100Hz / 10kHz
Dimensions (W, H, D) mm	435 x 92 x 342 mm
Available Finishes	Silver / Black
12 Volt Trigger	Yes
Remote Control	Yes
Inputs	Phono, CD, Tuner, Aux 1, Aux 2, Media Player
Loudspeaker Outputs	On / Off A, B, A+B
Weight	7.7kg, 16.9lbs



It's all in the details. The RA-06 SE looks identical to the amplifier it updates, the incredibly well-regarded RA-06. And the myriad changes that have gone on under the sleek silver casework will be meaningless to many of the people who will get countless hours of musical enjoyment from

this amplifier. But every upgraded capacitor, every modified negative feedback component, and each of the updated resistors combine to make a performance that's a major step up from the original RA-06. This amplifier is another landmark component in Rotel's drive for 'affordable high-end'.

- Separate pre/power designs in a single chassis
- Symmetrical circuit board layout
- Short signal path routing
- UK-designed metal film resistors
- US-made super low-noise resistors
- Rotel toroidal transformer and power supply
- Electronic speaker protection
- 12v trigger power control

For the complete list of specifications visit www.rotel.com

RA-05 SE

Integrated Amplifier

Continuous Power Output	(20 – 20kHz, <0.03%, 8 ohms): 40 watts/ch
Total Harmonic Distortion (20Hz-20kHz)	<0.03% at rated power, 1/2 power or 1 watt
Frequency Response	Phono Input: 20Hz – 15kHz: ±0.3dB Line Level Inputs: 10Hz – 40kHz: ±1dB
Damping Factor (20-20,000 Hz, 8 Ohms)	180
Input Sensitivity / Impedance	Phono Input: 2.8mV / 47kOhms Line Level Inputs: 170mV / 24kOhms
Input Overload	Phono Input: 180mV Line Level Inputs: 5V
Pre-amp Output / Impedance	1V / 470 Ohms
Tone Controls – Bass / Treble	±6dB at 100Hz / 10kHz
Dimensions (W x H x D) mm	435 x 72 x 342mm
Signal to Noise Ratio (IHF "A" Weighted)	Phono Input: 80 dB Line Level Inputs: 100 dB
Power Consumption	220 Watts
Panel Hight	60 mm
Weight (net)	5.9kg, 13lbs



Small changes can make a big difference; and when those changes are to audio-critical components, that difference can be vast. So it is with the Rotel RA-05, where time spent tuning, upgrading and switching components has resulted in the RA-05 SE, a product that shares the original's slim-line good looks and build quality, but takes its audio performance to the next level.

- Symmetrical circuit board layout
- Short signal path routing
- Isolated electronic audio input signal switching
- UK-designed metal film resistors
- US-made super low-noise resistors
- Rotel toroidal transformer and power supply
- Electronic speaker protection
- 12v trigger power control

RA-04 SE

Integrated Amplifier

Continuous Power Output	(20 – 20kHz, <0.03%, 8 ohms): 40 watts/ch
Total Harmonic Distortion (20Hz-20kHz)	<0.03% at rated power, 1/2 power or 1 watt
Frequency Response	Phono Input: 20Hz – 15kHz: ±0.3dB Line Level Inputs: 10Hz – 40kHz: ±1dB
Damping Factor (20-20,000 Hz, 8 Ohms)	180
Input Sensitivity / Impedance	Phono Input: 2.8mV / 47kOhms Line Level Inputs: 170mV / 24kOhms
Input Overload	Phono Input: 180mV Line Level Inputs: 5V
Pre-amp Output / Impedance	1V / 470 Ohms
Tone Controls – Bass / Treble	±6dB at 100Hz / 10kHz
Dimensions (W x H x D) mm	435 x 72 x 342mm
Signal to Noise Ratio (IHF "A" Weighted)	Phono Input: 80 dB Line Level Inputs: 100 dB
Power Consumption	220 Watts
Panel Hight	60 mm
Weight (net)	5.9kg, 13lbs



Every journey has to start somewhere. For an entry into the world of high-fidelity sound there is no better stepping off point than the RA-04 SE amplifier. It takes much of the original design and high-quality sound of the RA-04. But knowledge and experience gained developing both the high-end 15 Series and 06 SE Series have led to significant changes to the components used, and the sound produced.

- Symmetrical circuit board layout
- Short signal path routing
- UK-designed metal film resistors
- US-made super low-noise resistors
- Rotel toroidal transformer and power supply
- Electronic speaker protection
- 12v trigger power control

For the complete list of specifications visit www.rotel.com



**The Rotel Co. Ltd**

Bunzan-Shinsen-Bldg. 4F
10-10 Shinsen-Cho
Shibuya-Ku, Tokyo 150
Japan
T +81 (0) 3 5458 5325
F +81 (0) 3 5458 5310
E marketing-sales@rotel.co.jp

Rotel Europe

B&W Group Ltd
Dale Road
Worthing
West Sussex
BN11 2BH
United Kingdom
T +44 (0) 1903 221 763
F +44 (0) 1903 221 525
E info@roteleurope.com

Rotel UK

B&W Group (UK Sales) Ltd
Dale Road
Worthing
West Sussex
BN11 2BH
United Kingdom
T +44 (0) 1903 221 500
F +44 (0) 1903 221 501
E ukinfo@roteleurope.com

Rotel Deutschland

B&W Group Germany GmbH
Kleine Heide 12
33790 Halle/Westfalen
Germany
T +49 (0) 5201 871 70
F +49 (0) 5201 733 70
E info@bwgroup.de
www.rotel-hifi.de
www.gute-anlage.de

Rotel France

B&W Group France
75 rue Louis Arnal
ZAC des Prés Secs
69380 Lozanne
France
T +33 (0) 4 3746 1500
F +33 (0) 4 7254 3816
E info@bwgroup.fr

Rotel España

B&W Group Spain S.A.
Camí Can Calders 22
Apartado de Correos 252
08173 Sant Cugat del Vallès
Barcelona
Spain
T +34 (0) 93 589 4722
F +34 (0) 93 589 2470
E bwrotel@bwspain.com

Rotel Netherlands

B&W Group Nederland B.V.
Brugwachter 9
3034 KD Rotterdam
Holland
T +31 (0) 10 413 4422
F +31 (0) 10 213 3155
E info@bwspeakers.nl

Rotel Finland

B&W Group Finland Oy
Uudenmaakatu 4-6
00120
Helsinki
Finland
T +358 (0) 20 7430 075
F +358 (0) 20 7430 077
E info@bwgroup.fi

Rotel Switzerland

B&W Group (Schweiz) GmbH
Ifangstrasse 5
8952 Schlieren
Switzerland
T +41 (0) 43 433 6150
F +41 (0) 43 433 6159
E info@bwspeakers.ch
www.bwspeakers.ch

Rotel Belgium

B&W Group Belgium
Brusselbaan 278
Erembodegem 9320
Belgium
T +32 (0) 53 214915
F +32 (0) 53 781901
E info@bw-group.be

For a full list of Rotel distributors
worldwide go to www.rotel.com