06 SE Series
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 pyrotechnics 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 providing 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

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 06 SE Series, created a new benchmark that others will struggle to match.

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.

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
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 instrumnts. 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).

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 utmost attention. And at every stage of the selection process, 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.

Balanced Design

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-oriented approach typically taken with mainstream 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 emphasized 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.

“With extraordinary sound and unexceptional prices as the natural order of things, 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 emphasized 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.

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 emphasized 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.
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.

RT-09

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.

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

<table>
<thead>
<tr>
<th>FM Tuner</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable Sensitivity</td>
<td>22 dB</td>
</tr>
<tr>
<td>Harmonic Distortion</td>
<td>0.04%</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>10 kHz</td>
</tr>
<tr>
<td>Output level</td>
<td>2.2 V</td>
</tr>
<tr>
<td>ATT avo. balanced</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DAB Tuner</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>22 dB</td>
</tr>
<tr>
<td>Tuning Range</td>
<td>20-240 MHz</td>
</tr>
<tr>
<td>Harmonic Distortion</td>
<td>0.3%</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>20-15 kHz</td>
</tr>
<tr>
<td>Output level</td>
<td>2.2 V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Audio USB/port/aux</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal to Noise Ratio (IHF-A)</td>
<td>90 dB</td>
</tr>
<tr>
<td>Total Harmonic Distortion (0dBfs)</td>
<td>0.2%</td>
</tr>
<tr>
<td>Output Level (0dBfs)</td>
<td>2.2 V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>16 W</td>
</tr>
<tr>
<td>Weight (net)</td>
<td>5.1 kg</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>437 x 93 x 311.5 mm</td>
</tr>
<tr>
<td>Front panel height</td>
<td>90 mm</td>
</tr>
</tbody>
</table>
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 Phoneo Input (MM): 20Hz – 15kHz: ±0.3dB
Line Level Inputs: 10Hz – 100kHz: +1, -3dB
Input Sensitivity / Impedance Phoneo 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

RA-06 SE
Integrated Amplifier

Continuous Power Output (20 – 20kHz, <0.03%, 8 ohms) 70 watts/ch
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 Hight 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.

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’. 
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.

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

Continuous Power Output
Total Harmonic Distortion (20Hz-20kHz) <0.03% at rated power, 1/2 power or 1 watt
Frequency Response
Frequency Response (20kHz-20kHz)
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 Height 60 mm
Weight (net) 5.9kg, 13lbs

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