

06 Series



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06 Series

A quiet word, if we may.

There's something you ought to know about the Rotel 06 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 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 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 VCRs, MP3 players, PCs or TVs. We're specialists. We just make sound, for music and home theatre systems. And that's all we've been doing for 40 years. 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 06 Series, created a new benchmark that others will struggle to match.



RA-820 Rotel sparked a mini-revolution in the audio industry when we launched the RA-820 integrated amplifier in the early 1980's. Slim, simple and elegant, with performance that defied its price tag and astonished critics, the RA-820 created a new blueprint for Rotel products and became the basis for our Balanced Design Concept.

Opposite page, top left: Sevara Nazarkhan, Ahoy Arena, Rotterdam; top right: Sizer Barker, Wembley Arena, London; bottom left: Charlie Musselwhite, Joe's Pub, New York; bottom right: Pina Moles, Bath. All photography by York Tillyer.



Balanced Design Concept



Power supply The basic design of a Rotel product begins with the design of its on-board engine, or power supply: the part of the design that converts mains current into voltages that can be utilised by the unit's individual circuits. No less important whether considering the requirements of an amplifier or a CD player. A good power supply can provide an amp with a rich, robust, dynamic sound, but it's usually expensive. That's why some manufacturers specify transformers – the single most critical element of a power supply – that are barely up to the job. Rotel doesn't shop around. We keep quality high and costs down by manufacturing our own toroidal transformers in-house to our own unusually high standards. It takes skill and considerable time, but it's worth every minute.

Circuit topology This is where experience really counts. How you draw the map of where everything goes on the circuit board can dramatically affect the reproduction of delicate nuances in your music. It's a juggling act, positioning the parts of the amplifier to avoid hum, while keeping the path between them as short and direct as possible. We go to great lengths so our signal paths don't have to. In all Rotel amplifiers, the circuit board is symmetrical: the left and right parts of the signal are treated completely separately, in their own, mirror-image zones of the circuit board, which avoids 'crosstalk'. In addition, the twin circuit paths are identical in length, to preserve the integrity of the sound 'image'.

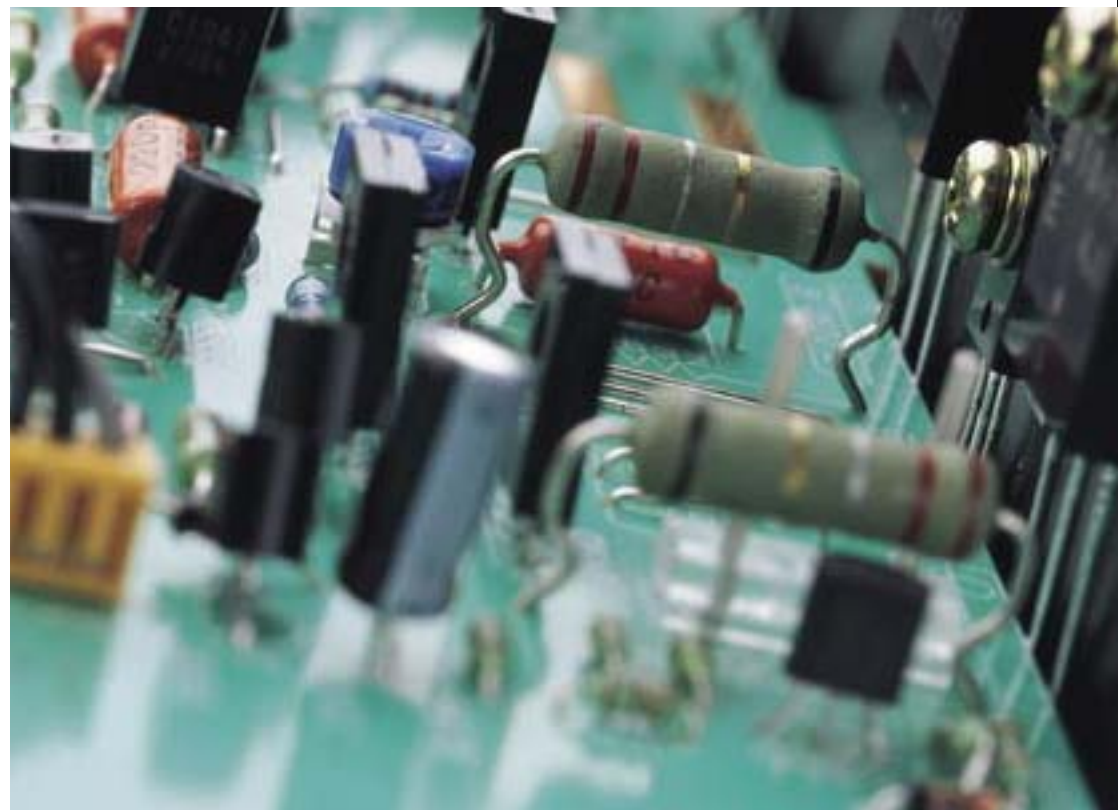
To us, extraordinary sound and unexceptional prices are the natural order of things. And it comes about because our engineers practice something called Balanced Design. This concept strikes a balance between the 'price-no-object' engineering of high-end audio brands and the price orientated approach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

*Balanced
Design
Concept*





Component selection Think of spring water. It's at its freshest and purest at its source. The further it travels, the more impurities it accumulates. It's not a lot different with audio signals. So we keep circuit paths short and we source parts that will convey the signal cleanly and with a minimum of fuss. Many of our suppliers are industry-leading, specialist manufacturers who also provide the same high-performance parts to more 'esoteric' audio brands. We handpick those that best serve our purposes and fit our Balanced Design Concept.

Over the years, we've found that the most sensitive instruments for measuring the quality of sound are not in laboratories but on the sides of human heads. Not just any heads, you understand, just those of specially trained engineers with extraordinary aural acuity. That's why, once the basic design of the product is complete, it is handed to our development team to undergo a rigorous series of listening tests.

They listen to different circuit elements, such as capacitors and resistors, and differences caused by circuit layouts and power supplies. If we need to, we'll make changes, even if sourcing a superior part means holding up production. That's Rotel's Balanced Design Concept. Now take a look at where our philosophy has led us: the O6 Series, in detail.



RA-06

Integrated Amplifier

Continuous Power Output
Total Harmonic Distortion (20Hz-20kHz)
Frequency Response

(20 – 20kHz, <0.03%, 8 ohms) 70 watts/ch
<0.03% at rated power, 1/2 power or 1 watt
Phono Input: 20Hz – 15kHz: ±0.3dB
Line Level Inputs: 10Hz – 100kHz: +1, -3dB
Phono Input: 2.5mV / 47kOhms
Line Level Inputs: 150mV / 24kOhms

Input Sensitivity / Impedance

1V / 470 Ohms
±6dB at 100Hz / 10kHz

Pre-amp Output / Impedance
Tone Controls – Bass / Treble
Dimensions (W x H x D) mm
Available Finishes
12 Volt Trigger
Remote Control
Inputs
Loudspeaker Outputs

435 x 92 x 342mm
Silver / Black

Yes

Yes

Phono, CD, Tuner, Aux 1, Aux 2, Media Player
On / Off A, B, A+B



For a quarter of a century, Rotel has led the way in the design of integrated amplifiers. The RA-06 is our new reference integrated amp, designed to drive its full, robust sound through even power-hungry speakers. You'll find its

output is sufficient for all but the largest rooms and most demanding loudspeakers, and in those situations it can be bi-amped with an RB-06 power amplifier to create a fearsome double act.

- 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
- Electronic speaker protection



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

RA-05 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: ±0.1dB
Input Sensitivity / Impedance	Phono Input: 2.5mV / 47kOhms Line Level Inputs: 150mV / 24kOhms
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
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



The RA-05 offers the same accuracy, fulsome delivery and flexibility as the RA-06, but for less demanding speakers. As with all Rotel amps, the RA-05 utilises high-performance parts and a custom-made Rotel toroidal transformer. Like the RA-06, it comes supplied with a 06 Series System Remote for armchair control of an entire 06 Series system, and can be bi-amped with an RB-06 power amplifier to fill larger rooms.

- 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 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: ±0.1dB
Input Sensitivity / Impedance	Phono Input: 2.5mV / 47kOhms Line Level Inputs: 150mV / 24kOhms
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
Available Finishes	Silver / Black
12 Volt Trigger	Yes
Remote Control	No
Inputs	Phono, CD, Tuner, Aux 1, Aux 2, Media Player
Loudspeaker Outputs	On / Off A, B, A+B



For great sound, nothing more, nothing less, the RA-04 is reference. It offers identical performance to the RA-05; the only difference is the RA-04 does not include remote control operation. What it does include is Rotel's Balanced Design Concept in practice, in the form of high-performance parts and finely-honed sound.

- 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

RCD-06

CD Player

Total Harmonic Distortion + Noise	0.0045% @ 1kHz
Frequency Response (± 0.5 dB)	20 – 20,000Hz
Channel Balance	± 0.5 dB
Phase Linearity ± 0.5 degree	± 0.5 degree
Channel Separation	>98dB @ 1kHz
Signal to Noise Ratio	>100dB
Dynamic Range	>96dB
Digital to Analog Converters	Enhanced multi-level Delta-Sigma DAC with 8x oversampling with digital filter
Speed Accuracy, Wow & Flutter	Quartz Crystal Precision
Output Impedance	100 Ohms
Digital Output	0.5 Volt, Peak to Peak
Load Impedance	75 Ohms
Dimensions (W x H x D) mm	435 x 72 x 342mm
Available Finishes	Silver / Black
12 Volt Trigger	Yes
Remote Control	Yes



If you're looking for a CD player exhibiting the same passionate attention to detail as a Rotel amplifier, try the RCD-06. It's tailor-made to partner one of our amps, drawing huge amounts of detail from a compact disc to provide master-tape clarity and resolution. Remote control operation, a high-density FL display and total programming capability finish off a high-quality component.

- High-precision, over-scanning disc mechanism
- Burr-Brown 24-Bit 96 kHz sampling 8 times over-sampling 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

RT-06

DAB-Tuner

DAB tuning section	
Frequency Range	174.928(5A)~239.200(13F)MHz
Sensitivity	-99dBm
Signal to Noise Ratio	85dB
Frequency Response	10Hz~20kHz, ± 1.5 dB
Digital Output Sampling Frequency	48kHz
FM tuning section	
50dB Quieting Sensitivity	20.2dBf (mono) / 45.3dBf (stereo)
Signal to Noise Ratio (at 65dBf)	73dBf (mono) / 70dBf (stereo)
AM tuning section	
Selectivity	25dB
Signal to Noise Ratio	40dB
Dimensions (W x H x D) mm	435 x 72 x 342mm
Available Finishes	Silver / Black
12 Volt Trigger	Yes
Remote Control	Yes



Tune into the new and exciting world of digital radio. The RT-06 offers all the benefits of Digital Audio Broadcasting with the detailed, musical sound quality of analogue FM, bringing in clear signals even under demanding conditions. Thirty presets allow rapid recall of your favourite broadcasts, accessible via either the unit's own remote control or the 06 Series System Remote.

- Separate analogue output stages for DAB and RDS FM/AM
- Independent internal analogue and digital power supplies
- Short signal path routing
- 30 pre-set memory
- 12v trigger power control

RC-06

Preamplifier

Total Harmonic Distortion (20Hz – 20kHz)	<0.004%
Frequency Response	Phono Input (MM): 20Hz – 20kHz: ± 0.5 dB Line Level Inputs: 4Hz – 100kHz: ± 3 dB
Input Sensitivity / Impedance	Phono Input (MM): 1.2mV / 68kOhms Line Level Inputs: 150mV / 24kOhms
Input Overload	Phono Input (MM): 160mV Line Level Inputs: 5V
Output Level / Impedance	1V / 100 Ohms
Signal to Noise Ratio (IHF "A" weighted)	Phono input (MM): 70dB Line level inputs: 100dB
Dimensions (W x H x D) mm	435 x 72 x 342mm
Available Finishes	Silver / Black
12 Volt Trigger	Yes
Remote Control	Yes
Inputs	Phono, CD, Tuner, Aux 1, Aux 2, Media Player
Headphone Output	Yes



Pairing up an RC-06 pre-amplifier and an RB-06 power amp is the smart way to enjoy purist performance from your audio system. Neither component costs more than a Rotel integrated amplifier, yet the sound of the two in harness is jaw-droppingly good. The RC-06 is a minimalist design engineered to preserve all of your music's most fragile nuances, and be partnered with twin RB-06 power amps for very heavy-duty bi-amp operation.

- A purist pre-amplifier
- 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
- 12v trigger power control

RB-06

Power Amplifier

Continuous Power Output	(20 – 20kHz, <0.03%, 8 ohms) 70 watts/ch
Bridged Mono Power Output	180 watts
(20 – 20kHz, <0.1%, 4 ohms)	200 watts (at 1kHz)
Total Harmonic Distortion (20Hz – 20kHz)	<0.03% at rated power, 1/2 power or 1 watt
Intermodulation Distortion (60Hz : 7kHz, 4:1)	<0.03%
Frequency Response (± 1 dB)	10Hz – 100kHz: ± 1 dB
Damping Factor (20 – 20,000Hz, 8 ohms)	500
Speaker Impedance (Normal mode)	4 ohms minimum
Signal to Noise Ratio (IHF A network)	116dB
Input Impedance/Sensitivity	33kOhms / 1.0 volt
Dimensions (W x H x D) mm	435 x 92 x 342mm
Available Finishes	Silver / Black
12 Volt Trigger	Yes
Remote Control	No



In tandem with an RC-06 pre-amplifier, the RB-06 provides a sound comparable in quality to that of expensive audiophile equipment – but for a fraction of the price. Conceived and engineered with the sole aim of providing high quality power in abundance, the RB-06 drives even the most demanding loudspeakers effortlessly. Team a pair of them with an RC-06 pre-amp for maximum amplification.

- A purist power amplifier
- 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
- Slit-foil reservoir capacitors
- 12v trigger power control



Because you don't want to worry about popping fuses, all three 06 Series integrated amplifiers and the RB-06 power amp are equipped with on/off electronic speaker protection. Although it demands additional circuitry, the feature has been meticulously engineered to maintain the integrity of the signal, as you'd expect from Rotel.



What's the use of a system that can't reproduce all of your music to the same standard? All of our pre- and integrated amplifiers include a phono input of exceptional quality so that, even when you're listening to vinyl, you'll hear everything in captivating detail.







If you haven't sampled Digital Audio Broadcasting already, pick up an RT-06 tuner and start exploring. Even if you already access DAB, the RT-06 will bring you your favourite stations and broadcasts with surprising crispness and clarity.



If you take your MP3 player wherever you go, it's good to be able to plug it easily into a bigger system at home. So all three 06 Series integrated amplifiers and the RC-06 pre-amp carry a front panel-mounted Media Player input. Just plug-and-play.

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