

**ROTEL**

■ The decision to build a home theater system is the easy part. After all, there's no denying the sonic impact of an epic movie or your favorite music on today's surround-sound audio/video systems. ■ But, the hard part is deciding on the equipment. Add on to an existing audio system? Or start from scratch? What size system? And how much will it cost? Fortunately, Rotel's thirty years of building high-performance, high-value audio gear let us provide some easy answers. ■ First, comes performance. The key to long-term enjoyment is the same as it's always been – superb audio reproduction. And, few companies have garnered as much praise for performance from the magazine reviewers as Rotel. ■ Second, comes selection. While some would have you tailor your needs to the equipment, Rotel's broad line of home theater gear allows you to precisely match your room, your taste, your budget, plus any existing components you may wish to incorporate in your new system. From a range of surround-sound processors/system controllers, to convenient multichannel surround-sound amplifiers, to bridgeable stereo amplifiers in every imaginable size, Rotel provides everything you need. ■ And then, comes price. With five channels of audio, a video monitor, and source components, the bottom line can start to add up. That's when Rotel's tradition of affordable high-end components pays off with great sound for a very reasonable investment. ■ With performance, selection, and exceptional value, Rotel makes home theater so easy that your toughest decision may be picking which movie to rent.

SURROUND  
PROCESSORS

POWER  
AMPLIFIERS

ACCESSORIES

# HOME THEATER COMPONENTS



■ **RSP960** Dolby surround processor ■

The Rotel RSP960 is an affordable, remote-controlled A/V preamplifier /surround sound processor. Featuring advanced Dolby Pro-Logic decoding with special steering circuitry, the RSP960 delivers a truly convincing surround-sound presentation for movie soundtracks or musical sources. And, for even more physical impact, the RSP960 provides cross-over and output circuitry for driving a subwoofer. ■ More than just a high-performance surround sound processor, the RSP960 also serves as an audiophile control center for your entire audio/video system. Connections include three video inputs (S-Video or composite) as well as an audio line input and tape monitor for the easy addition of a CD player and tape deck.

■ **RSP980** THX surround processor ■

The Rotel RSP980 provides all the the performance and flexibility for a high-performance home theater system. It starts with Dolby Pro Logic surround-sound decoding and is further augmented by special EQ circuitry and THX certification that lets you hear a movie's soundtrack exactly as the director intended you to. ■ Five audio/video inputs (composite and S-video) let you handle VCRs, LaserDisc players, DSS broadcasts, CD players, tuner, and tape decks with ease, while special "Zone 2" audio outputs increase your current system's flexibility. An on-screen display simplifies set-up and calibration and a full-function remote control lets you manage the system with ease. ■ Classic Rotel audio circuitry features high precision metal film resistors, low ESR capacitors, and high current operational amplifiers. And a DB25 connector means you'll be able to add Dolby Digital/AC-3 at any time, now or in the future.

■ **RTC970** surround tuner/preamp ■

Combining Dolby ProLogic decoding with an AM/FM tuner and dual-zone preamplifier, Rotel's RTC970 makes an impressive centerpiece for a home entertainment system. The RTC970 decodes Dolby® Pro Logic® video sources with precise all-analog circuitry to avoid the harshness common to most digital designs. A special Cinema Mode compensates for excessive high frequency energy in movie soundtracks, while Music modes add progressive spaciousness to music. An on-screen display makes initial set-up and calibration easy. There's even a connector for outboard Dolby Digital/AC-3 processors like our RDA980. ■ You can choose from four audio and four audio/video sources for your main system while selecting a different one for elsewhere in your home! And regardless of the source, your ears will applaud Rotel's remarkable audio circuitry.

■ **RDA980** Dolby AC-3 adaptor ■

We are ready for the future with the RDA980 Dolby AC-3 Digital Surround sound adaptor. This outboard processor can be easily connected to the RSP980/RTC970 to decode all 5.1 channel digital signals from laser discs that are Dolby AC-3 encoded. The future is digital and Rotel is ready.



RSP960AX Dolby surround processor

"Once again, Rotel has come up with an intelligently designed, cost-effective audiophile component."  
Edward J. Foster, High Performance Review, Summer 1994



RSP980 THX surround processor



RTC970 surround tuner /pre-amp



RDA980 Dolby AC-3 digital adaptor

## ■ RMB100 monoblock amplifier ■

Leave it to Rotel to identify a need and address it with an affordable high-end solution. For decades, stereo power amplifiers have been the rule. After all, speakers were sold in pairs. But, with the popularity of multi-channel surround systems and separate subwoofers, there is an increasing need for a high-performance mono amplifier. ■ Rotel's new RMB100 monoblock amplifier is the perfect solution. With 125 watts into 8 ohms or 200 watts into 4 ohms, it's the ideal size for driving a center-channel speaker in a home theater system – or for powering subwoofers. ■ The RMB100 offers true audiophile performance. With MOSFET outputs and oversized power supply, it provides impressive dynamic range and resolution of even the most subtle musical textures. Along with standard RCA inputs, the RMB100 features a balanced input for low-noise with extended cable runs. For convenience in large theater installations, it features automatic signal-sensing turn-on and turn-off.

## ■ RB956 six-channel amplifier ■

In the past, driving multiple speakers for theater sound required a stack of amplifiers – an unsightly and expensive proposition. To make home theater easy, Rotel's engineers developed a simple, cost-effective, and elegant solution – the RB956 six channel power amplifier. This single amplifier contains six separate channels of power, each delivering 40 watts. Use it to drive your entire surround system and get the kind of high-end performance that has won Rotel so much worldwide acclaim. ■ Like all Rotel amplifiers (except the RB990), the RB956 provides full bridging capabilities which allow each pair of amplifier channels to be combined into one channel with 100 watts of power. Thus the RB956 can be converted to 5-channel, 4-channel, or even 3-channel operation, making it ideal for driving today's satellite/subwoofer speakers or for multi-room applications. Or mix and match the RB956 with other Rotel bridgeable amplifiers for unlimited system flexibility.

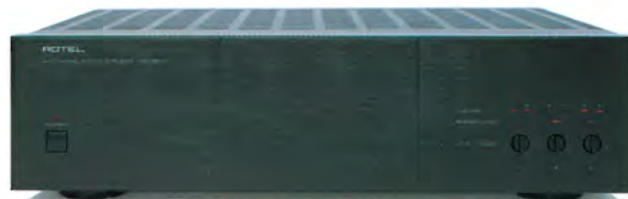
## ■ RB985 five-channel THX amplifier ■

Whether building your home theater from scratch or adding to an existing system, this amplifier is the answer. With five channels each delivering 100 watts, the RB985 puts plenty of power in a highly efficient and convenient package. ■ The THX-approved RB985 exemplifies Rotel's commitment to home theater performance. A massive 1500VA toroid transformer combines with oversized, high capacity filter capacitors and precision regulators to provide extraordinary smooth operating voltages. Each of the RB985's 20 output devices is rated for 130 watts and 15 amperes of current. This high voltage, high current design assures uncompressed and dynamic reproduction of today's music and video sources. ■ The RB985 makes connecting your home theater system easy and convenient. A multi-pin connector, allowing single-cable hook-up, complements an array of gold-plated RCA jacks. Rugged, heavy duty binding posts accept a variety of audiophile-grade speaker cables.



RMB100 monoblock power amplifier

"The Rotel RMB-100s deserve serious consideration."  
*Dayna B., The Audio Adventure, Vol. 2, Issue 2, Dec. 1995*



RB956AX six-channel power amplifier

"...its main calling card is flexibility, which means that it's ready to serve today and won't become obsolete tomorrow."  
*Mark Horowitz, Sound and Image, Summer 1994*



RB985 five-channel power amplifier

"The Rotel will put you in the all-star game for a grand, which is the lowest sticker price yet for a five-channel THX amp."  
*Home Theater Technology, Nov. 1995*



Rotel power amplifiers, like this RB990, feature oversized power supplies for high current capability.

## ■ RB930 stereo amplifier ■

The small, but mighty, RB930AX is a versatile, high current, stereo amplifier with 30 watts per channel. It is ideal for powering surround sound rear channels or as a bridged mono amplifier (100 watts) for center channel speakers or subwoofer applications.

## ■ RB970 stereo amplifier ■

For powering main speakers, the RB970BX delivers 60 watts per channel in stereo mode. Or, use it in bridged mono mode for a power output of 180 watts – perfect for large subwoofers. A toroidal power transformer and Rotel's "slit foil" capacitors enable this amplifier to drive very demanding loads with ease.

## ■ RB980 stereo amplifier ■

With its high efficiency toroidal power supply, this beautifully crafted amplifier delivers 120 watts per channel in stereo and 360 watts in bridged mono mode. Recommended by Stereophile and selected for the CES "Design and Engineering Award 1992", the RB980BX is a superb performer in any high quality audio or home theater system.

## ■ RB990 stereo amplifier ■

A true powerhouse, the RB990BX delivers 200 watts per channel of sweet, detailed, musical performance. With its stable design and considerable current capability, the RB990BX is a remarkable amplifier for audiophile theater systems and can drive even the most inefficient speakers to breathtaking sound pressure levels.

## ■ RLC900 line conditioner ■

An investment in home theater electronics should be protected against AC surges and RFI-induced noise. The RLC900 offers this protection plus convenience. ■ Three AC outlets for digital equipment feature separate grounds and a 'turn off' delay. There are also three outlets for accessory components with 'turn off' delay, two outlets for power amplifiers with 'turn on' delay, and one unswitched outlet. These different types of outlets ensure a smooth system power up or down without annoying transient pops. ■ The RLC900 includes two power cords, one from the wall outlet and one connected to a 'switched' outlet on the rear of a Rotel Tuner/Preamp or Receiver – allowing the RLC900 and all connected electronic components to be turned on or off from a single remote control.

### RLC900

Dimensions (W x H x D)

440 x 75 x 180 mm  
17<sup>3</sup>/<sub>8</sub> x 2<sup>7</sup>/<sub>8</sub> x 7"

Weight (net)

2.7 kg / 6 lbs

Designed to switch up to 15 amps of current at 120V/60Hz.  
9 outlets – 8 switched, 1 unswitched.



RB930AX stereo power amplifier



RB970BX stereo power amplifier



RB980BX stereo power amplifier

"Suffice it to say here that the Rotel offered a tantalizing taste of the High End."  
*Thomas J. Norton, Stereophile, Volume 5, Number 2, Nov. 1992*



RB990BX stereo power amplifier

"If I were doing a blind test, I'd swear the 990 was a Class-A amp in the plus three grand bracket."  
*Mark Block, The Audiophile Voice, Volume 2, Issue 1*



RLC900 power line conditioner

# Surround Processors

	RSP980	RSP960	RTC970
<b>Audio</b>			
Surround Sound	Dolby Pro Logic /THX	Dolby Pro Logic	Dolby Pro Logic
Frequency Response (front)	5-20k Hz ( $\pm 0.5$ dB)	20-20k Hz ( $\pm 0.5$ dB)	5-20k Hz ( $\pm 0.5$ dB)
THD (front, 1kHz)	0.03%, max.	0.035%, max.	0.03%, max.
IM Distortion 400Hz:7kHz = 4:1	0.03%, max.	0.035%, max.	0.03%, max.
S/N Ratio IHF A, stereo mode	100dB	100dB	100dB
Input Sensitivity / Impedance	47 kohms	47 kohms	47 kohms
Output Impedance	<500 ohms	<500 ohms	<500 ohms
Output Voltage			
Maximum	>6 volts	>4 volts	>4 volts
Dolby, 300 mV in	0.9 volts	0.9 volts	0.9 volts
THX, 200 mV in	0.6 volts	-	-
<b>Video (S-Video/Composite)</b>			
Frequency Response	3Hz-10mHz (-3dB)	10Hz-10mHz (-3dB)	10Hz-10mHz (-3dB)
S/N Ratio	70 dB	65 dB	65 dB
Input/Output Impedance	75 ohms	75 ohms	75 ohms
Output Voltage (p-p, 75 ohm)	1 V	1 V	1 V
<b>Tuner</b>			
FM S/N Ratio (@65dBf)	-	-	75dB (mono) 70 dB (stereo)
FM Usable Sensitivity (mono)	-	-	12.5dBf 1.2 $\mu$ V
FM 50 db Quieting Sensitivity (75 ohms)	-	-	11 dBf/2 $\mu$ V (mono) 34.5 dBf/30 $\mu$ V (stereo)
FM Harmonic Distortion (65dBf/1kHz)	-	-	0.08% (mono) 0.3% (stereo)
FM Capture Ratio	-	-	1.5 dB
Alt Chan. Selectivity ( $\pm 400$ kHz)	-	-	63dB
Spurious Response Ratio	-	-	95dB
IF Response Ratio	-	-	90dB
Stereo Separation (100Hz/1kHz/10kHz)	-	-	35dB/40dB/30dB
AM Sensitivity	-	-	350 $\mu$ V/m
AM Selectivity	-	-	27dB
<b>Miscellaneous</b>			
Power Consumption	35 watts	22 watts	22 watts
Dimensions (W x H x D)	440 x 127 x 316mm 17 $\frac{3}{8}$ x 5 x 12 $\frac{1}{2}$ "	440 x 92 x 297mm 17 $\frac{3}{8}$ x 3 $\frac{3}{8}$ x 11 $\frac{3}{4}$ "	440 x 121 x 297mm 17 $\frac{3}{8}$ x 4 $\frac{7}{8}$ x 11 $\frac{3}{4}$ "
Weight (net)	8kg / 17.6 lbs	6 kg / 13.2 lbs	7 kg / 15.4 lbs

# HOME THEATER COMPONENTS

# Power Amplifiers

	RB985AX	RB956AX	RMB100
<b>Power Configurations</b>	5 x 100 watts	6 x 40 watts 4 x 40 + 1 x 100 watts 2 x 40 + 2 x 100 watts 3 x 100 watts	1 x 125 watts
Watts/Channel all channels driven, unbridged, 8 ohm load, 20 to 20k Hz, 0.03% THD	100 watts	40 watts	125 watts
THD (20-20,000Hz) cont. rated power one-half rated power one watt per channel	0.03%, maximum 0.03%, maximum 0.05%, maximum	0.03%, maximum 0.03%, maximum 0.05%, maximum	0.03%, maximum 0.03%, maximum 0.03%, maximum
IM Distortion (at rated power, 60Hz:7kHz = 4:1)	0.03%, maximum	0.05%, maximum	0.03%, maximum
Damping Factor (8 ohms)	180	180	500
Input Sens. / Impedance	1.0V / 27 kohms	1.0V / 27 kohms	1.0V / 24 kohms
Input Overload Level	5V	5V	5V
Frequency Response	10-80 kHz ( $\pm 0.05$ dB)	10-80 kHz ( $\pm 1$ dB)	10-80 kHz (+0, -3dB)
S/N Ratio (IHF A)	115dB	105dB	100dB
Power Consumption	800 watts	400 watts	500 watts
Dimensions (W x H x D)	440 x 139 x 396mm 17 $\frac{3}{8}$ x 5 $\frac{1}{2}$ x 15 $\frac{5}{8}$ "	440 x 121 x 365mm 17 $\frac{3}{8}$ x 4 $\frac{7}{8}$ x 14 $\frac{3}{8}$ "	165 x 172 x 200mm 6 $\frac{1}{2}$ x 6 $\frac{3}{4}$ x 7 $\frac{7}{8}$ "
Weight (net)	15.5kg / 34.1lbs.	10.5kg / 23.1lbs.	7.5kg / 16.5lbs.

	RB990BX	RB980BX	RB970BX	RB930AX
<b>Power Configurations</b>	2 x 200 watts 1 x 360 watts	2 x 120 watts 1 x 360 watts	2 x 60 watts 1 x 180 watts	2 x 30 watts 1 x 100 watts
Watts/Channel all channels driven, unbridged, 8 ohm load, 20 to 20k Hz, 0.03% THD	200 watts	120 watts	60 watts	30 watts
THD (20-20,000Hz) cont. rated power one-half rated power one watt per channel	0.03%, maximum 0.01%, maximum 0.02%, maximum	0.03%, maximum 0.03%, maximum 0.03%, maximum	0.03%, maximum 0.03%, maximum 0.05%, maximum	0.03%, maximum 0.03%, maximum 0.03%, maximum
IM Distortion (at rated power, 60Hz:7kHz = 4:1)	0.02%, maximum	0.03%, maximum	0.05%, maximum	0.05%, maximum
Damping Factor (8 ohms)	1000	1000	280	180
Input Sens. / Impedance	1.0V / 33 kohms	1.0V / 33 kohms	1.0V / 27 kohms	1.0V / 27 kohms
Input Overload Level	5V	5V	5V	5V
Frequency Response	4-100 kHz (+0.5, -3dB)	4-100kHz (+0.5, -3dB)	15-100kHz (+0, -1dB)	15-100kHz (+0, -1dB)
S/N Ratio (IHF A)	120dB	120dB	116dB	116dB
Power Consumption	550 watts	400 watts	300 watts	180 watts
Dimensions (W x H x D)	440 x 121 x 365mm 17 $\frac{3}{8}$ x 4 $\frac{7}{8}$ x 14 $\frac{3}{8}$ "	440 x 121 x 305mm 17 $\frac{3}{8}$ x 4 $\frac{7}{8}$ x 12"	440 x 92 x 305mm 17 $\frac{3}{8}$ x 3 $\frac{3}{8}$ x 12"	440 x 92 x 305mm 17 $\frac{3}{8}$ x 3 $\frac{3}{8}$ x 12"
Weight (net)	15.5kg / 34.1lbs	10.2kg / 22.4lbs	6.8kg / 15lbs	6.5kg / 14.3lbs

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Rotel brings a thirty-year tradition of innovation, musical performance, and value to the world of home theater.