

ROTEL

■ Shopping for a CD player can be a bewildering experience. With terms like 1-bit, 16-bit, 18-bit, 20-bit, oversampling, and all the rest, it seems that the rush to sell buzzwords sometimes obscures the original intent – accurate musical reproduction. ■

At Rotel, we take a different approach. We won't tell you that one, and that only one, type of digital technology is the best, because it's simply not true. All of the available technologies can work well, if properly designed and implemented. Each has its strengths and weaknesses. That's why we aren't locked into a particular design; we select from all of the available options to maximize the performance of each model. ■ We apply thirty years of research and development expertise to the total package – the combination of transport mechanism, laser pickup, D/A converter, filtering, power supply, and analog circuitry that will work together in unison to provide the best possible sound quality and reliability. We call it "Balanced Design." And maybe it's the reason that magazine reviewers have given us such high praise. ■ At Rotel, the design process starts with consideration of *total* circuit topology, continues with the selection of premium grade parts, and ends with thorough listening evaluations. Production begins only when we are thrilled with the musical performance of a new component. Just take a moment to listen to the Rotel CD players – the results of our painstaking efforts will be clearly audible. ■

RCD930
RCD950
RCD970
RCD975
RDP980
RDD980
RCC945

COMPACT DISC PLAYERS



■ RCD930 ■

The RCD930 is a true music lover's bargain, providing superb musical reproduction at a very affordable price. Featuring a 1-bit Pulse Width Modulated D/A converter and a second order Delta Sigma noise shaping circuit (equivalent to 8-times oversampling), the RCD930 excels at resolving the low-level musical detail so important for precise imaging. ■ In addition to its performance, the RCD930 incorporates a full array of controls and features that belie its modest price. The Program Play feature allows up to 20 of your favorite tracks to be stored into memory. Press the Scan button and play the first 10 seconds of each song – a useful feature when setting record levels on your tape deck. The Random Play function plays songs from the disc in a completely random order. The multi-function Repeat Play feature allows you to repeat a song, the whole disc, or programmed selections of songs. And, full remote control allows operation from anywhere in the listening room.

■ RCD950 ■

Rotel's RCD950 sets new standards in superb musicality and affordable pricing. Our engineers have turned to a new generation of D/A converter technology based on the Philips TDA-1305 Continuous Calibration bitstream chipset. The digital signal first passes through a 16-times oversampling filter for 20-bit resolution followed by upsampling to the equivalent of 96-times oversampling. Then, the signal is converted to a 5-bit PDM signal, which ensures a noise-level some 30 dB lower than a typical 1-bit converter. For nearly absolute precision and immunity from the effects of circuit drift, temperature, and age, a special Continuous Calibration reference circuit dynamically calibrates the 32 voltage steps in the final conversion process to an analog signal. While the technology may be complex, the result is easy to understand – low-level accuracy, ultra-wide dynamic range, and noise-free performance. With an array of convenient functions, such as Program, Random, Repeat, Intro Scan and full remote control operation, the RCD950BX makes a worthy addition to any high quality system.

■ RCD970 ■

The RCD970 is packed with performance normally found only in far more exotic designs. Starting with the same high-tech Continuous Calibration 5-bit D/A converter found in the RCD950, the RCD970 adds the acclaimed CDM-9 swingarm laser mechanism to provide fast access, precise tracking, and gentle handling of your treasured recordings. A toroidal transformer and high quality filter capacitors ensures smooth, ripple-free power for the analog audio circuitry. The RCD970 also features a premium printed circuit board, precision components, and a gold-plated RCA coaxial digital output. ■ Convenience features include Intro Scan, Random Play, 20 Track Programming, multi-function Repeat and Time information along with full infrared remote control. The attractive slim profile of the RCD970 adds further class to yet another achievement in value from Rotel.



RCD930AX compact disc player

"Now, the sound. Drop this sweetheart into a high ticket audio system and I dare you to guess its price tag."
Tom Miller, The Audio Adventure, Vol. 2, Issue 11, Nov. 1995



RCD950BX compact disc player

"Because of its faithfulness to the source, its detailed and balanced sound, I recommend the Rotel RCD-950 the most highly...it is a wonderful sounding little CD player."
Muse Kastanovich, Stereophile, Volume 19, Issue 6, June 1996



RCD970BX compact disc player

"This player is truly surprising. You check its price, which is more than reasonable, but what performance!"
Reine Lessard, Ultra High Fidelity Magazine, Issue 44, Dec. 1995



RCD975BX compact disc player

"Whoever is searching for an audiophile player without paying an out-of-this-world price must really consider the RCD-975. It can be favorably compared to other much more expensive models."
Nicolas Maranda, Quebec Audio, November/December 1995

■ RCD975 ■

The RCD975 provides true audiophile performance, taking the already state-of-the-art Continuous Calibration 5-bit D/A converter to new heights. Instead of a single D/A to handle both channels, the RCD975 uses dual-differential time-aligned converters – one for each channel. Each D/A simultaneously processes both the positive signal and an inverted version of the same signal. The resulting analog signals are compared to each other. Any conversion errors appear as differences in the two signals, which can then be cancelled out. The result is the virtual elimination of digital conversion errors, a significant step towards the promise of perfect digital decoding. ■ The RCD975 doesn't stop with innovative digital circuitry. A CDM-9 swingarm laser transport provides accuracy, stability, and smooth disc handling. A full-featured remote control provides convenience functions including Scan, Random Play, 20-track Programming, Search, Repeat, and A-B Repeat. The power supply includes a toroidal transformer and high-quality filter capacitors, while a premium-grade printed circuit board and meticulous circuit layout ensure noise-free performance.

■ RDD980 ■

The RDD980 is a premium-quality compact disc transport for use with separate D/A converters. The advantage of a standalone disc transport is elegantly simple – by isolating the transport from the digital processing circuitry, there is no chance that the transport's servo electronics can interact with the D/A converter or analog circuitry. In addition, two independent power supplies provide the high degree of isolation and precision required for absolute fidelity. ■ The RDD980's disc handling can best be described as "silky" with a center-mounted version of the Philips CDM9 laser transport and a dual transformer power supply. Digital outputs include digital coaxial and Toslink optical connections. Full infrared remote control includes direct track access along with Program, Repeat, and Shuffle play modes.

■ RDP980 ■

The RDP980 digital processor makes a perfect companion to the RDD980 transport. The processor features a 1-bit, 64-times oversampling Delta Sigma D/A converter, followed by an 8-times oversampling digital filter. Then comes a 5th order analog filter followed by a 2nd order filter to further reduce the chance of spurious noise. With premium printed circuit boards, star-earth grounding, and audiophile-grade power supplies, the RDP980 provides high-end performance, easily the equal of esoteric D/A converters costing many times more. Plus, the converter operates over a wide range of sampling frequencies to automatically handle CD, DAT, and digital satellite sources. ■ The RDP980 features four selectable digital inputs, with coaxial and optical inputs for both. In addition, there are both optical and coaxial digital outputs, as well as RCA analog outputs and a digital Record Monitor loop for use with a digital tape recorder.

ROTEL®



RDP980 digital processor

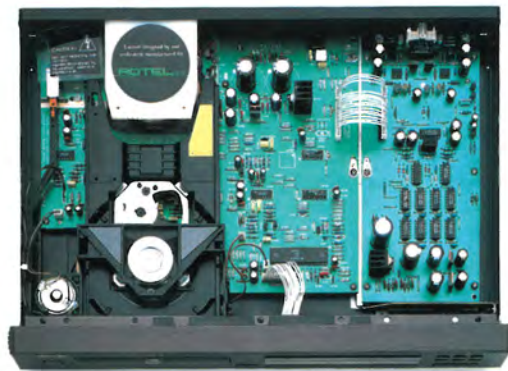


RDD980 compact disc transport

"The musical finesse offered by the Rotel separates is surprising and even those who have expensive systems should look upon the 980 transport and D/A as inexpensive alternatives to much higher priced items."

The Inner Ear Report, Vol. 8, Number 2, 1995

COMPACT DISC PLAYERS



Careful circuit layout ensures noise-free performance

RCC945

Drawing on the expertise gained from the development of Rotel's highly acclaimed single-disc players, the RCC945 CD changer provides the sound quality and reliability typical of Rotel products. Highlighted by a sweet and detailed sound stage from its dual one-bit Delta Sigma digital-to-analog converters, advanced multi-segment power supply, and sophisticated analog section, the RCC945 is the clear sonic leader among multi-disc players. ■ To ensure ease of operation that is crucial to the long term enjoyment of any CD changer, the RCC945 combines a single-play drawer loader with an internal six disc "elevator style" storage bank for use as a single disc player or in multi-disc mode for uninterrupted listening enjoyment. ■ The RCC945 provides flexibility and convenience with Scan, Repeat, and dual-mode Shuffle options, permitting random play of all tracks on a single disc or random sequences of tracks from all six discs. A coaxial digital output simplifies system hook-up and a full-function remote control duplicates all front-panel controls and adds direct disc access for maximum convenience.



RCC945BX compact disc changer

	RDD980	RDP980	RCC945AX
Disc Capacity	1	—	6
Frequency Response	—	5-20k Hz (±0.5dB)	20 - 20k Hz (±0.8dB)
Amplitude Linearity	—	±0.5dB	±1dB
Phase Linearity	—	±0.5°	±0.5°
Signal / Noise Ratio	—	110dB	96dB
Dynamic Range	—	95dB	93dB
Channel Separation (at 1kHz)	—	100dB	95dB
THD + Noise (at 1kHz)	—	0.0025%	0.01%
Intermodulation Distortion	—	0.006%	0.004%
Wow & Flutter	Quartz Crystal	—	Quartz Crystal
Maximum Audio Line Output	—	2VRMS	2VRMS
Digital Output Level (coax)	0.5Vpp	0.5Vpp	0.5Vpp
Digital Output Impedance	75 ohms	75 ohms	75 ohms
Power Consumption	15 Watts	15 Watts	30 Watts
Dimensions (W x H x D)	440 x 75 x 305 mm 17 ³ / ₈ x 2 ⁷ / ₈ x 12"	440 x 75 x 305 mm 17 ³ / ₈ x 2 ⁷ / ₈ x 12"	440 x 127 x 305 mm 17 ³ / ₈ x 5 x 12"
Weight	5.2 kg / 11.5 lbs.	4.9 kg / 10.8 lbs.	5.9 kg / 13 lbs.

Rotel CD players have a two-year Limited Warranty

ROTEL®

PERFORMANCE BEYOND EXPECTATION

COMPACT DISC PLAYERS

RCD930AX	RCD950BX	RCD970BX	RCD975BX
1	1	1	1
20-20k Hz (±0.8dB)	5-20k Hz (±0.5dB)	20-20k Hz (±0.05dB)	20-20k Hz (±0.05dB)
±0.8dB	±0.05dB	±0.05dB	±0.05dB
±0.5°	±0.5°	±0.5°	±0.5°
90dB	100dB	105dB	107dB
90dB	99dB	100dB	100dB
90dB	100dB	100dB	100dB
0.01%	0.0045%	0.0025%	0.0025%
0.01%	0.01%	0.0025%	0.0025%
Quartz Crystal	Quartz Crystal	Quartz Crystal	Quartz Crystal
2VRMS	2VRMS	2VRMS	2VRMS
n/a	0.5Vpp	0.5Vpp	0.5Vpp
n/a	75 ohms	75 ohms	75 ohms
30 Watts	30 Watts	30 Watts	30 Watts
440 x 93 x 305 mm 17 ³ / ₈ x 3 ³ / ₈ x 12"	440 x 93 x 305 mm 17 ³ / ₈ x 3 ³ / ₈ x 12"	440 x 75 x 305 mm 17 ³ / ₈ x 2 ⁷ / ₈ x 12"	440 x 75 x 305 mm 17 ³ / ₈ x 2 ⁷ / ₈ x 12"
4.2 kg / 9.2 lbs.	4.8 kg / 10.5 lbs.	4.9 kg / 10.8 lbs.	5.1 kg / 11.2 lbs.

ROTEL OF AMERICA
54 CONCORD STREET
NORTH READING, MA. 01864-2999
PHONE: 800.370.3741
FAX: 508.664.4109