

DT-6000

DAC TRANSPORT



DIAMOND SERIES



Certified
Roon Tested



Supports MQA and
MQA Studio



Smooth tray loading
CD mechanism



12 volt trigger
input



Fully balanced
differential
XLR outputs



ESS premium 32-bit
8-Channel Digital to Analog
Converter

The Rotel Diamond Series DT-6000 DAC Transport celebrates Rotel's 60-Year history delivering performance, passion and value synonymous with the brands Japanese heritage. The DT-6000 supports Coaxial, Optical and PC-USB inputs as well as an integrated CD Player for the ultimate flexibility playing your favorite sources rendering digital audio with dynamic precision and authentic accuracy.

The DT-6000's critical Digital to Analog circuits utilizes an ESS Sabre 8-Channel ES9028PRO DAC dedicating 4 channels each to the Left and Right stereo outputs. The DACs multi-channel processing delivers unprecedented details with an ultra-low noise floor through fully differential circuits resulting in an immersive, expansive sound stage.

Dedicated power supplies feed all critical circuits driven by an in-house manufactured low-emission shielded toroidal transformer with high efficiency, low ESR slit-foil smoothing capacitors delivering ripple free current. Physical circuit board isolation techniques and electronic decoupling design methods result in lower residual noise and reduced distortion in the sensitive analog stages including the external DAC output filters.

The Coaxial and Optical inputs support PCM audio up to 24-bit/192kHz with the asynchronous PC-USB input rendering up to 32-bit/384kHz high resolution music files. The PC-USB also supports MQA and DSD 4X and is certified Roon Tested for the highest compatibility with Roon software.

The smooth action tray loading CD player utilizes Rotel's formidable 30-years of experience engineering and manufacturing award winning disc spinners. The industrial design includes a spring-floating CD mechanism with damping materials to reduce mechanical noise and vibrations during playback. Precision motor controls and the optical laser pick-up extract every nuance and detail from CD collections both large and small.

Front panel controls and a back-lit IR remote provide intuitive operation of the unit with playback status, music file stream details and CD Metadata shown on the 2-line display.

The RS232, 12V trigger and external remote input ensure simplified integration with all popular control systems.

The DT-6000 is available in both black and silver colors.

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SPECIFICATIONS

Total Harmonic Distortion + Noise

Coaxial/Optical Input < 0.0007%
CD/PC-USB Input < 0.0012%

Intermodulation Distortion

< 0.0012%

Frequency Response (0±0.5 dB)

20 Hz - 20k Hz, +0, -0.15dB
10 Hz - 70k Hz, +0, -3dB

Channel Balance

± 0.5 dB

Channel Separation

> 115 dB @ 10k Hz

Signal to Noise Ratio (IHF A-Weighted)

> 115 dB

Dynamic Range

> 99 dB

Input Sensitivity

0 dBfs / 75 ohms

Analog Output Level / Impedance (0 dBfs)

Unbalanced (RCA) 2.1 V / 10 ohms
Balanced (XLR) 4.3 V / 20 ohms

Digital to Analog Converters

ESS

Coaxial/Optical Digital Input

SPDIF LPCM
(up to 24-bit / 192k Hz)

PC-USB

USB Audio Class 2.0
(up to 32-bit / 384k Hz)*
*Driver installation required
Support native DSD (up to 11.2M)
and DoP
Support MQA and MQA Studio
(up to 24-bit/ 384k Hz)
Roon Tested.

Power Requirements

USA 120 V, 60 Hz
EC 230 V, 50 Hz

Power Consumption

25 watts

Standby Power Consumption

< 0.5 watts

Dimensions (W x H x D)

431 x 104 x 320 mm
17 x 4 x 12³/₅ ins

Front Panel Height

2U / 88.1 mm / 3¹/₂ ins

Weight (net)

8.11 kg, 17.88 lbs.

Finish

Silver and Black