



TEAC VRDS-10SE

¥ 150,000 (released in 1995)

Commentary

CD player announced as a special edition model of VRDS-10.

The VRDS mechanism is used for the mechanism part.

In this mechanism, the disc is clamped on a high-mass turntable with the same diameter as the disc, thereby eliminating the inherent vibration of the disc itself and unnecessary vibration of the mechanism system. In addition, by giving an extremely gentle inclination to the disc crimping surface, the warpage and distortion of the disc are corrected. The pickup, which is finely adjusted to the same angle as the turntable, always realizes pit reading at the center of the pickup optical axis. This greatly improves the relative optical axis accuracy between the optical pickup and the disc pit surface, and minimizes unnecessary servo current.

The VRDS-10SE uses high-precision die-cast aluminum for the turntable and a thick reinforced rib bridge for rigid support. The mechanical base is made of a special polymer material with a low coefficient of thermal expansion and resistance to temperature changes. Moreover, it has twice the specific gravity of ABS resin. The motor section uses a brushless Hall motor that boasts high torque, and has acquired rotational stability and high durability.

The D/A converter uses a bit stream conversion DAC7 without 0 cross distortion in principle.

In the VRDS-10SE, the SAA7350, which boasts excellent signal characteristics, is used separately for the left and right channels, and the TDA1547 "DAC7" is joined to both channels to improve sound quality in a double differential mode.

With this differential circuit, interference between the left and right channels and even harmonics are canceled, and the SN ratio is dramatically improved.

The digital filter uses a 20-bit 8 x oversampling digital filter.

The body has a double-top panel structure with a top panel in the lower layer of the bonnet. In addition, cushioning materials are carefully placed between the double-top panels to increase the damping effect, and these are fixed to the chassis body by seven point fasteners.

In addition, the chassis body uses a separate block construction divided into eight parts. In addition to the independent front and rear chassis, a center chassis for the mechanism is installed. In addition, two sub-chassis for the mechanism and floating are connected to the side chassis. In particular, the center chassis, which directly connects the front and rear panels, forms an H-shaped beam structure. This greatly increases the rigidity of the entire body.

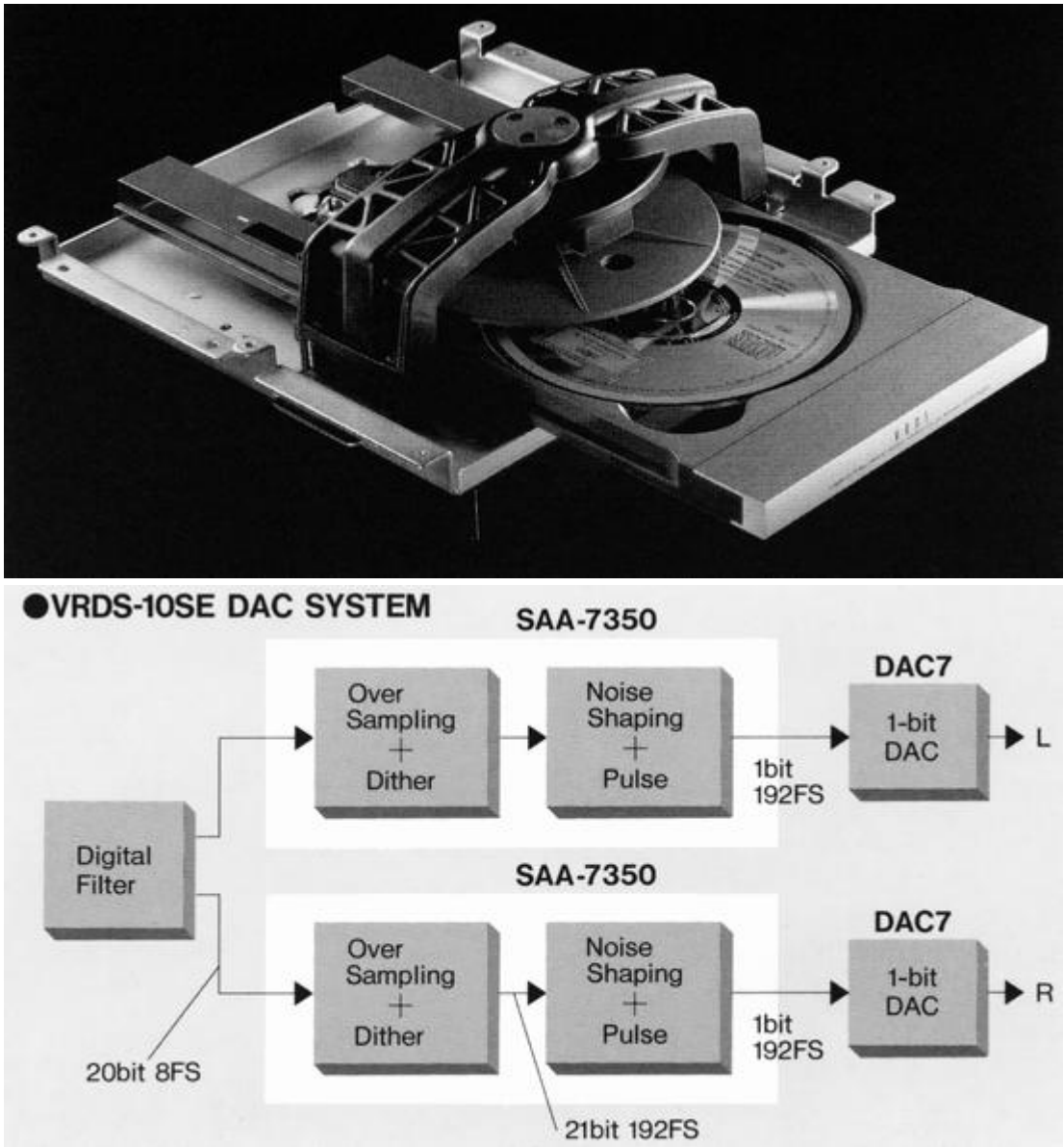
In the VRDS-10SE, the thickness of the middle top plate is set to 1.6 mm a non-resonance design.

Interference between digital and analog circuits is minimized by using separate boards.

Audio condensers and high-precision metal-coated resistors are fully employed, and very thick OFC cables are attached to the power cords to improve sound quality.

Equipped with CN servo to reduce noise components caused by servo current.

5 mm thick high-density front panel and solid aluminum tray top panel.



Model Rating

Type	CD Player
Number of audio channels	2 Channel
Frequency characteristic	1 Hz to 20 kHz $\pm$ 0.3 dB
Signal-to-noise ratio	110 dB or More (1 kHz)

Dynamic range	99 dB or More (1 kHz)
Total harmonic distortion factor	0.0013% or Less (1 kHz)
Wow and flutter	Less than measurement limit (crystal oscillation accuracy)
Channel separation	110 dB or More (1 kHz)
Analog output	2.2Vrms
Digital output	Coaxial : 0.5Vp-p/75 Ω Optical : -15dBm to -21dBm (TOS)
D/A converter	Bit stream
Digital filter	8 x oversampling 20-bit digital filter
Analog filter	Third order Butterworth filter
Pwer	100 VAC, 50Hz/60Hz
Power consumption	18W
Outer Diameter Dimension	Width 442x Height 149x Depth 331 mm
Weight	11kg
