

DENON DCD 1600NE Silver

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Šifra: 11702

Kategorija proizvoda: CD Plejeri

Proizvođač: DENON

Cena: **119.880,00** rsd

Advanced AL32 Processing and Ultra Precision 192kHz/32bit D/A converter

DAC Master Clock Circuit Design

Direct Mechanical Ground Construction

Carefully designed construction, minimum signal paths and selected Hi-Fi parts

Denon original drive mechanism with S.V.H. loader

Playback of CD and Super Audio CD; DSD (2.8 MHz / 5.6 MHz) files and PCM files up to 192 kHz / 24 bits recorded on DVD R/RW

Separated digital and analogue power supply

Pure Direct Mode

Available in Premium Silver and Black

Benefits

Digital recordings beautifully faithful to the original sound

Jitter free audio reproduction

Minimizes unwanted vibration

Preserves audio signal purity

Accurate pickup and decoding from all discs

Extended disc support for modern high-res audio

Advanced AL32 Processing Plus

The DCD-1600NE is equipped with Advanced AL32 Processing Plus, the latest version of Denon's analogue waveform reproduction technology which utilizes unique data interpolation algorithms and also supports high-resolution sound sources. These algorithms interpolate points that should exist before and after the points in

large quantities of data to achieve a smooth waveform that is close to that of the original signal. By carefully restoring data that was lost during digital recording, the resulting playback sound is highly detailed, free of interference, accurately localized, richly expressive in the lower range, and beautifully faithful to the original sound.

New Denon Original Disc Drive Design

The DCD-1600NE's disc drive design contains high-class S.V.H. (Suppress Vibration Hybrid) Mechanism. The circuitry that controls the pickup and decodes the signals read from the disc has been newly developed. Signal paths have been shortened to an absolute minimum and circuits have been miniaturized to ensure that excess current or noise will not occur. An S.V.H. Loader of a hybrid construction combining different materials gives stability to the disc drive so that the disc can be read with utmost accuracy. In addition, the mechanism's low center of gravity suppresses any vibration occurring inside the mechanism due to disc rotation, and the mechanism structure also effectively suppresses external vibration. By eliminating unwanted vibration, servo-related operations are minimized, and by also minimizing unnecessary controls and current consumption, digital signals can be read from the disc with optimum accuracy under stable conditions.

resolution files up to 192 kHz /24 bits recorded on DVD-R/RW and DVD+R/RW discs. Music files with sampling frequencies of up to 48 kHz recorded on CD-R/RW discs can also be played.

Direct Mechanical Ground Construction

The integrity of musical signals deteriorates when they are subject to internal vibration caused by disc rotation or the power transformer, or to airborne vibration caused by sound pressure from the speakers. To guard against such influences, Denon engineers designed a vibration suppression structure they called “Direct

Mechanical Ground Construction”. In this design, the power transformers – themselves a source of vibration – have been placed close to one foot of the DCD-1600NE where unwanted vibration is funneled directly to the ground and prevented from affecting nearby circuitry. Also, by placing the drive mechanism – the part with the greatest mass – low in the center of the chassis, the low center of gravity effectively absorbs internal vibration caused by disc rotation and also protects the mechanism from external vibration.

DAC Master Clock Design

To accurately synchronize digital circuits, the DCD-1600NE’s DAC Master Clock Design treats the DAC as the master when clock signals are supplied. Positioning the master clock immediately adjacent to the D/A converter (DAC) suppresses jitter and ensures optimum precision in D/A conversion. In addition, the quality of the clock, which becomes the reference for semiconductor operation, is extremely important for ensuring that the digital audio circuitry performs at its maximum potential. The DCD-1600NE thus employs a clock oscillator to dramatically reduce phase noise that is the displacement of frequencies. The clock power circuit has also been vastly improved to bring out the full potential of the highquality clock’s performance.

A conductive polymer capacitor with particularly outstanding high-frequency impedance characteristics for Denon’s renowned sound quality has been placed at the base of the clock’s power source, and an ultra-compact film capacitor that is different from layered ceramic capacitors has been placed close to the clock, to achieve an improved S/N ratio and a transparent sound with superior spatial expression. The DCD-1600NE is equipped with two clock oscillators, one for each sampling frequency (44.1 kHz and 48 kHz), that can be switched between the frequencies ...to provide the perfect clock for any multiple of these sampling frequencies from 44.1kHz to 192kHz and even up to DSD5.6MHz, without the need of rounding. This does avoid error and guarantees best date conversion.

Circuitry with Minimized Signal Paths; Separate Power Transformers

The “simple & straight” design philosophy has been thoroughly implemented in all of the DCD-1600NE’s circuits. Circuit patterns have been redesigned from the ground up to make signal paths as short as possible and ensure that the original sound is faithfully reproduced across the sonic spectrum. As a result, interference between circuits and between left and right channels as well as adverse influences on audio signals are minimized, producing a clean, highly transparent sound. Moreover, the power units for the digital and analogue circuits, whose signals have different characteristics, have separate transformers to eliminate mutual interference and noise. An aluminum plate has also been combined to the underside of the steel transformer base to strengthen rigidity

Features

| | |
|--|----------------------------------|
| CD Compatibility | CD / CD-R/RW / SA-CD / WMA / AAC |
| AL 32 Processing | Yes (Advanced) |
| DAC Master Clock Design | Yes |
| Customised Components | Yes |
| Symmetric Circuit Layout | Yes |
| Data Disc Compatibility: DSD / WAV / ALAC | <=5.6 / 192 / 96 |
| High Grade Audio Components | Yes |

Specifications

| | |
|---------------------------------------|------------------------|
| Mechanism | SVH Loader |
| D/A Conversion | Advanced Segment |
| DAC IC | PCM1795 (192kHz/32bit) |
| Frequency Response (Cust.) | 2 Hz - 50 kHz |
| Dynamic Range (SA) | 112 dB |
| Signal to Noise Ratio (SA) | 117 dB |
| Total Harmonic Distortion (SA) | 0.001% |
| Frequency Response | 2 Hz - 20 kHz |
| Dynamic Range | 101 dB |

| | |
|---------------------------|---------|
| Signal to Noise Ratio | 116 dB |
| Total Harmonic Distortion | 0.0018% |

General

| | |
|--------------------------------|------------------------|
| Available Colours | Premium Silver / Black |
| Metal Front Panel | Yes |
| Remote Control | RC-1213 |
| Power Consumption | 24W |
| Standby Consumption | 0.2W |
| Auto Power Off | Yes |
| Detachable Power Cable | Yes |
| Maximum Dimensions (W x D x H) | 434mm x 328mm x 134mm |
| Weight | 8.2kg |

Playable files

| | Sam-pling fre-quency | Bit rate | Bit length | Playable discs | | | Ex-ten-sion |
|--------|--------------------------------------|---------------|------------|----------------------------|----------------------------|----------------------------|----------------|
| | | | | CD-R/ CD- RW | DVD-R/ DVD- RW | DVD+R/ DVD+RW | |
| MP3 | 32/44.1/48 kHz | 32 – 320 kbps | □ | check_mark | check_mark | check_mark | mp3 |
| WMA | 32/44.1/48 kHz | 48 – 320 kbps | □ | check_mark | check_mark | check_mark | wma |
| AAC | 32/44.1/48 kHz | 16 – 320 kbps | □ | check_mark | check_mark | check_mark | .aac/ .m4a |
| WAV | 32/44.1/48/88.2/ 96/176.4/192 kHz | – | 16/24 bit | check_mark | check_mark | check_mark | wav |
| FLAC | 32/44.1/48/88.2/ 96/176.4/192 kHz | – | 16/24 bit | check_mark | check_mark | check_mark | flac |
| ALAC*1 | 32/44.1/48/ 88.2/96 kHz | – | 16/24 bit | check_mark | check_mark | check_mark | m4a |
| AIFF | 32/44.1/48/88.2/ 96/176.4/192 kHz | – | 16/24 bit | check_mark | check_mark | check_mark | .aif/ .aiff |
| DSD | 2.8 MHz/5.6 MHz | – | 1 bit | – | check_mark | check_mark | .dsf/ .dff |