

DENON®

PRODUCT INFORMATION



**DENON DCD-1600NE**

**SUPER AUDIO CD PLAYER**

## TAKE DISC PLAYBACK PERFORMANCE TO REMARKABLE HEIGHTS

### HIGHLIGHTS

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 analog power supply  
Pure Direct Mode  
Available in Black  
Engineered with a more than 100-year Denon legacy in audio excellence

### YOUR 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  
Preserves audio signal purity  
Ensures clean audio output and accurate, detailed sound  
Sleek design that complements the PMA-1600NE Integrated Amplifier  
Trust this high-quality and durable system to deliver the ultimate audio experience



ADVANCED *AL32* PROCESSING  
*Plus*



MP3

WMA



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### Advanced AL32 Processing Plus

The DCD-1600NE is equipped with Advanced AL32 Processing Plus, the latest version of Denon analog 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.

### Denon Original Disc Drive Design

The disc drive design of the DCD-1600NE is built with a high-class S.V.H (Suppress Vibration Hybrid) mechanism. New, condensed signal paths and circuitry that control pickup and decode noise are minimized to prevent excess noise and preserve sound quality. The hybrid construction of the S.V.H. loader provides stability in the disc drive, allowing for the decoding and signal reading with the upmost accuracy.

The low center of gravity of the mechanism suppresses vibration occurring inside the DCD-1600NE as well as outside the structure. By eliminating excess vibration, servo-related operations are minimized. The reduction of unnecessary controls and current consumption allows for digital signals to be read from the disc with optimal accuracy.

### DSD and FLAC Disc Playback Support

In addition to CD and Super Audio CD, the DCD-1600NE can play DSD (2.8 Mhz / 5.6 MHz) files and high-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

To guard against vibration that pollutes the signal, the DCD-1600NE is equipped with Direct Mechanical Ground Construction — a vibration-resistant design that protects the sound quality. Power transformers are fitted near the bottom of DCD-1600NE and immediately above the insulators to prevent unwanted vibration. By lowering the transformer, the vibration surrounding the chassis is reduced, resulting in pristine sound.

### DAC Master Clock Design

To accurately synchronize digital circuits, the DCD-1600NE is built with a DAC Master Clock design that treats the DAC as the master when clock signals are supplied. Crafted with exceptional quality, the master clock is immediately adjacent to the DAC, which suppresses jitter and ensures optimal precision in D/A conversion. It serves as the reference for semiconductor operation and optimizes digital audio circuitry. Two integrated clock oscillators reduce phase noise, each addressing a sampling frequency (44.1 kHz and 48 kHz). The DAC Master Clock is exceptional for multiple sampling frequencies from 44.1kHz to 192kHz and even up to DSD 5.6MHz, without rounding.

### Advanced Circuitry with Minimized Signal Paths

The circuit patterns in the DCD-1600NE are thoughtfully engineered to make signal paths as short as possible. With shorter circuits, the interference between circuits and left and right channels is reduced, and the adverse influences on audio signals are minimized. As a result, the circuit paths in the DCD-1600NE reproduce sound that's clean, highly transparent and faithful to the original recording.

### 100+ Years of Firsts in Audio Technology

Founded in 1910, Denon has a deep heritage of "firsts" in audio technology — from Japan's first audio electronics manufacturer, to producing the world's first commercial CDs. This focused investment in audio R&D ensures you get the latest technology and highest quality with every listening experience.



### Technical information

SACD section		Output voltage	2.0 V (10 kohms)
Channels	2 channels	Digital output	0.5 Vp - p/75 ohms -15 to -21 dbm 660 nm
Frequency response	2Hz - 50kHz (-3 dB)		
Dynamic range	112 dB	<b>General</b>	
Signal-to-noise ratio	119 dB	Power supply	AC 120 V, 60 Hz
Total harmonic distortion	0.001% (1 kHz, audible range)	Power consumption	24 W (Standby 0.1 W)
<b>CD section</b>		Dimensions (W x H x D)	17.1 x 5.3 x 13 in
Channels	2 channels	Weight	18.1 lbs
Frequency response	2Hz - 20kHz	<b>UPC</b>	
Dynamic range	101 dB	DCD1600NEBK3	883795004510
Signal-to-noise ratio	117 dB	Color	Black
Total harmonic distortion	0.0016% (1 kHz)		

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