



*Alpha Processing* **AL 20-bit ASLC** Super-Linear Converter

## ALPHA Processor with Real 20-Bit 4-DAC ADVANCED Super Linear Converter

### ■ ALPHA Processor

The DCD-1650AR features the ALPHA Processor, an innovative technology developed by DENON which produces waveforms as smooth as those from analog sources to give the output sound an extremely supple, listenable sound quality. The ALPHA Processor interpolates signal data that is lost when digital data is recorded. It is even capable of reproducing the special nuance of sound that momentarily disappears in silence. Now, lovers of beautiful music can happily enjoy limitless spaciousness and clarity of sound.

### ■ The Real 20-Bit 4-DAC ADVANCED Super Linear Converter

The ADVANCED Super Linear Converter (ASLC), developed by DENON, that divides the digital data into two streams to eliminate zero-cross distortion in a powerful 4-DAC configuration.

### ■ 8-Times Oversampling Digital Filter

Increasing the oversampling frequency by a factor of eight makes possible an extraordinary degree of attenuation and reduces frequency irregularities in the audio range to an absolute minimum.

### ■ Newly-Developed Loading Mechanism for Suppression of Vibrations

Besides the placement of the CD pickup mechanism at the center of the DCD-1650AR where it enjoys structural stability, the newly-developed mechanism unit uses a guide and tray

painted with a protein material that is highly resistant to vibrations in order to prevent unwanted vibrations to the tray.

### ■ Digital Servo

The DCD-1650AR is equipped with a digital servo that automatically detects the optimum servo amount for each disc and adjusts the servo volume to suit the disc. This feature lets the CD perform at its maximum potential.

### ■ Dynamic 2-Fold Power Supply

The DCD-1650AR incorporates a total of two separate power supply circuits: one for the digital circuits, one for the audio circuitry. This reliably prevents mutual interference and eliminates sound quality degradation due to voltage fluctuations.

### ■ High-Quality Digital Output

The DCD-1650AR offers a coaxial and an optical output connector for the digital signal.

### ■ Other Versatile Functions

- Auto Edit Function
- Auto Space Function to Create 4-Second Pauses Between Selections
- Programmable Playback of Up to 20 Selections
- Random Play
- Peak Search Function Automatically Locates the Point with the Highest Recording Level on a Disc
- Fader Allows Smooth Fade-In Fade-Out at Any Point
- Display Dimmer Permits Control of Display Brightness
- 20-Selection Music Calendar Display
- Exquisite Aluminum Front Panel

## Specifications

### ■ Audio Section

Channels ..... 2 channel stereo  
 Frequency response ..... 2 Hz - 20 kHz  
 Dynamic range ..... 100 dB  
 Signal-to-noise ratio ..... 118 dB  
 Total harmonic distortion ..... 0.0018 % (1 kHz)  
 Channel separation ..... 110 dB (1 kHz)  
 Line out level ..... 0 ~ 2 V rms (Variable)  
 (10 kohms load) ..... 2 V rms (Fixed)

D/A converters ..... Real 20-bit 4-DAC, ADVANCED Super Linear Converter with ALPHA Processor  
 Oversampling ..... 8 times, 20 bit

### ■ Others

Power supply ..... AC 120 V, 60 Hz  
 Power consumption ..... 25 W  
 Dimensions/Weight ..... 434 (W) x 135 (H) x 340 (D) mm, 11.9 kg  
 17-3/32" x 5-5/16" x 13-29/64", 26 lbs 4 oz

\*Design and specifications are subject to change without notice.

