

Overwhelming Performance Brings Out the True Nature of Sound for a Higher Class of Experience



The top-class HX-D2 brings together all the features demanded of today's main unit, including high-performance functions, high quality parts, body design and materials, for the faithful reproduction of sound. Numerous high-performance features, including 96kHz Sampling D/A Converter, 4-Way Crossover and 5-Band Parametric EQ, let you discover the finest nuances of sound and create a sound taste exactly as you want it. Moreover, the Glass Epoxy 4-Layer Circuit Board and large external power supply unit DC/DC converter deliver stable circuit driving and high quality sound, with a body construction that takes performance into consideration with every detail. This collection of high performance provides car audiophiles looking for the ultimate sound a high-class sound solution.



HX-D2 NEW

AM/FM CD CENTRE/BUILT-IN TIME ALIGNMENT/PARAMETRIC EQ/4-WAY CROSSOVERS

- 96 kHz Sampling DSP
- Burr-Brown 24-Bit D/A Converter
- Plays CD-R & CD-RW
- 4-Way Crossovers(Subwoofer/Low/Mid/High) Built-in

- 5-Band PEQ
- Digital Time Alignment for Each Line Level Output
- 4V/8ch Gold Plated Line Level Outputs (for SW/L/M/H or Front 2-Way/Rear/SW) with 6N OFC Cables
- Copper Plated Chassis
- DC/DC Converter
- CeNET Control of: Optional TV Tuner, DVD Changer and 6-Disc CD Changer
- Multi-Changer Control

- 2 2ch AUX Inputs
- Fibre Optic Input/Output
- Vacuum Florescent Display
- IR Remote Control
- Line Level Output Only (Requires External Amplifier)
- 18FM/6AM Presets
- Ultra Precision Rotary Volume Control
- Zinc Diecast Faceplate



- Clarion High Fidelity CD Player Without Built-in Amplifier
- CeNET Control of 6 Disc CD Changer
- Dual 24-Bit D/A Converter
- CD Text
- HDCD Disc Playback
- High-capacity DC/DC Converter ($\pm 15V$)
- 4 Volt / 4ch RCA Output (Max 9V)
- High Purity OFC Cable
- 2ch AUX Input
- High Visibility Blue-White VF Display
- Copper Plated Chassis
- Optical Input Terminal for connection with DCZ625
- Aluminium Analogue Rotary Volume Control
- 18 FM/6 AM Presets
- FM Diversity



- Clarion Performance CD Player Without Built-in Amplifier
- C-BUS CD Changer Control
- ALPHA Processor*
- Dual 20-Bit D/A Converter
- 4 Volt / 4ch RCA Output (Max 9V)
- High Visibility Blue VF Display
- Copper Plated Chassis
- High S/N Analogue Rotary Volume Control
- 18FM/6AM Presets
- FM Diversity

*The ALPHA processor was developed by Nippon Columbia Co., Ltd.

The HX-D2 Technologies

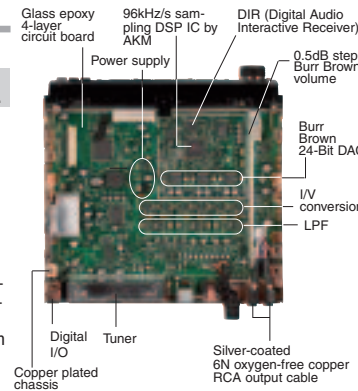
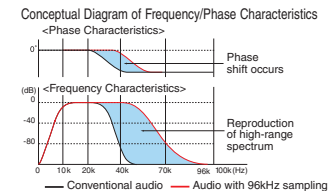
96kHz Sampling D/A Converter

Harmonic elements included in high range add richness and depth to sound.

In the case of CD, digitised sound is sampled at 44.1kHz to enable reproduction up to 20kHz to cover the humanly audible range. Moreover, the ultra-high frequency range above 20kHz was cut by a filter and not produced so that quantisation noise could be shut out. However, as a result of this filter, phase distortion was produced, hindering the high fidelity reproduction of the high frequency range. And ironically, it is in fact the harmonic elements contained in this high frequency range that have a profound effect on the depth and nuance of sound.

96kHz sampling enables reproduction of sounds faithful to the original source.

In order to reproduce the subtle nuances and depth contained in the original sound source, this D/A Converter samples at 96kHz, a rate far surpassing the usual 44.1kHz, to enable reproduction of frequencies as high as 48kHz for the first time in car audio. By broadening the sampling range, it becomes possible to reduce phase distortion in the audible high frequency range, reproducing the fine nuances of musical instruments recorded on CD and delivering the full expressiveness and natural resonance that is inherently present in the sound source.

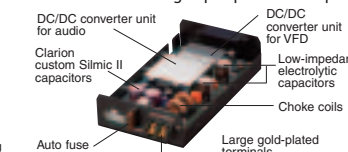


Copper-Plated Chassis Prevents Sound Deterioration

Uses a copper-plated chassis to minimise the generation of spurious electrical current which can adversely affect sections that have a bearing on the signal, as well as noise interception caused by electrical shielding effect.

DC/DC Converter Developed Specifically for Audio

From wiring to fuses and chassis, this external power supply unit was developed specifically for car audio using only the most carefully selected high spec parts. It is capa-



ble of supplying large electrical currents in an instant, and rigorously pursues the exclusion of noise.

High-Sampling Conversion Circuit

The sampling conversion circuit upconverts the digital audio data read from a CD to fs96kHz and applies high-speed interpolation using a DSP by AKM Corporation, converting up to a maximum fs768kHz using a high-sampling compatible 8X FIR digital filter.

Burr Brown Advanced Segment Type 24-Bit D/A Converter

After high sampling the data is processed by an advanced segment type Burr Brown 24-Bit D/A Converter which offers superior dynamic characteristics and is resistant to clock jitter. Higher accuracy D/A conversion is thereby attained.

Silver-Coated SK:6N (99.9999% Oxygen-Free) Copper RCA 8ch Output Cable

Uses silver-coating shielded SK:6N (99.9999% Oxygen-Free) Copper RCA 8ch output cable to send natural, high-quality sound to the power amplifier.

Glass Epoxy 4-Layer Circuit Board

Internal circuitry uses a glass epoxy 4-layer circuit board, with separate exclusive layers for ground and power supply, lowering the impedance for ground and power supply for stable circuit driving and high sound quality.

Display OFF Function

Turns off the display circuits when a CD or other source is being played, preventing pulse noise from the display section from affecting sound quality.

8ch 4-Way Crossover

With MULTIMODE, it's possible to create a multi speaker system with each band (HIGH, MID, LOW, SUBWOOFER) driven by

an exclusive amplifier. The Digital Crossover function lets you make fine and precise adjustments to each frequency range to bring out the full performance of each speaker. And with adjustable settings for cut-off frequency, slope (-6dB, -12dB, -18dB), gain (-24~0dB step), phase (0°/180°), etc. for each band, plus STANDARD MODE (Front high/low + Rear + subwoofer), as well as DIRECT MODE to bypass circuits within the DSP that can affect sound quality, it is possible to precisely adjust the sound as desired directly from the main unit.

World's Finest 0.7cm Step Digital Time Alignment

This function lets you set each speaker in a maximum 8ch system to deliver the same acoustic effects with pinpoint accuracy regardless of the seating position of the listener.

5-Band Parametric EQ

An enthusiast-oriented graphic equaliser that divides the frequency range into 5-band and allows fine adjustment of each individually.

World's First 0.5dB Step Electronic Volume Circuit

By incorporating a Burr Brown volume IC, it achieves fine adjustment in 0.5dB step increments.

Specially Designed Mechanism Chassis with 3-Layer Coated Nickel Plating

- Fluorescent Display (VFD) for Superior Visibility
- 2 Sets of AUX Input Circuits
- Optical Digital Input enables Optical Cable Connection

CD CHANGERS / PROCESSORS

DCZ625

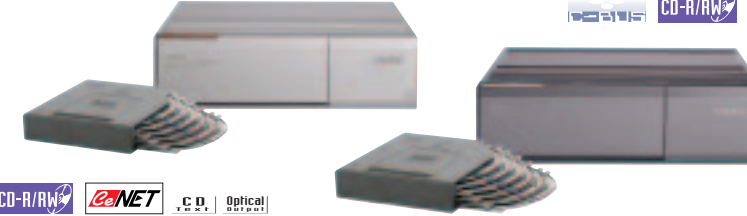
CeNET 6-DISC CD CHANGER

- 6-Disc Magazine
- 8-Times Oversampling Digital Filter
- 1-Bit DAC
- CD Text
- Plays CD-R & CD-RW
- Optical Output Terminal
- CeNET

DC625

C-BUS 6-DISC CD CHANGER

- 6-Disc Magazine
- Plays CD-R & CD-RW
- 8-Times Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- C-BUS



FMC250

CD CHANGER CONTROLLER WITH FM MODULATOR

- Disc Select (Up/Down)
- Random Play (Disc/Track)
- Track Music Search
- Last Position Memory
- 7-Seg. Green Colour LCD
- Cable (DIN): 2m
- Input Level Control: 4-Point
- Frequency Select.: 87.7 to 89.9 MHz (0.2MHz-Step 12-Point)
- IR Remote Control

New 1/2-DIN Equaliser with 7 bands of adjustment, and built-in high-pass and low-pass crossovers with subwoofer-level control.

EQS744 NEW

1/2-DIN GRAPHIC EQUALISER/CROSSOVER

- 7-Band Graphic Equaliser
- Selectable Main AUX Inputs
- Subwoofer-Level Control
- Selectable Subwoofer Low Pass Frequency 60 Hz or 90 Hz
- 6ch / 7-Volt RCA Line-Level Output

Multi-channel network offers individual control over three frequency ranges to best match the performance characteristics of your speakers.

MCD360

3-WAY ELECTRONIC CROSSOVER

- 18 dB/oct. Slope
- Front/Rear Subwoofer Level Control
- Built-in Bass EQ
- Subwoofer Remote Control
- Cross Frequency Multiplier
- 2/4/6ch Input / Separate F/R Crossover
- 6ch Output