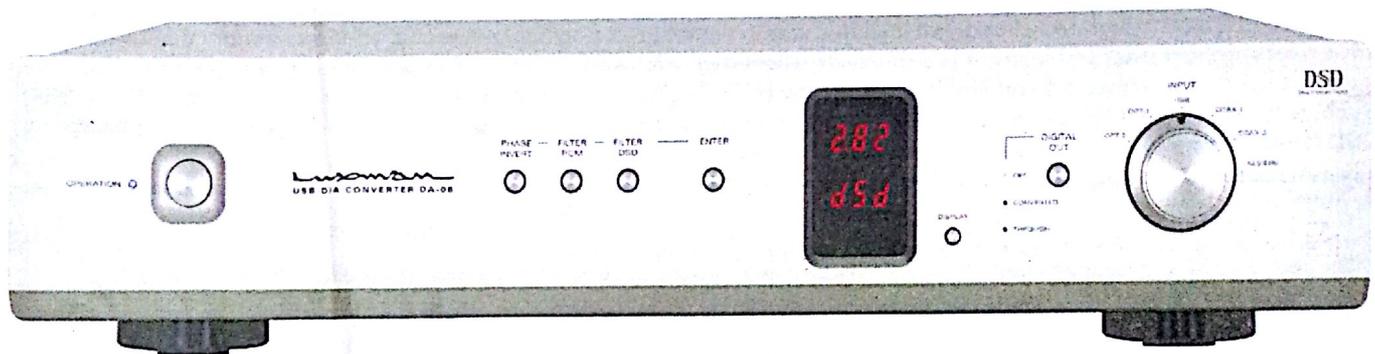


First DSD compatible digital analog converter  
 The fusion of 3 elements: Digital + Analog + Power Supply  
**Debut of DA-06, stereo DSD / USB DAC**

MODEL NAME		COLOR
	DA-06	Satin Silver Aluminum



SUPER AUDIO CD PLAYER D-06

### OUTLINE

LUXMAN are proud to release their first offering in a new series of DSD, DXD compatible digital analog converters. Built on the platform of the award winning D-06; the DA-06 also employs the same Processor, Digital Analag Converter, the Analog Output stage & the Power Supply of the D-06.

The DA-06 is a music reproduction system that has been developed by integrating various new techniques and a large amount of expertise for the purpose of sound quality improvement, and greater music enjoyment. Relying on both technology & musical sensibilities acquired over 80 years since LUXMAN's foundation. We have gone back to our fundamental objectives: " Digital Circuitry, Analog Output Stage Circuitry & Power Supply" that we feel constitutes a remarkable digital music converter.

DSD files can be played (over USB, using DOP) in thier native format, or if no ASIO driver is available for the computer, then the DSD file is converted to super high resolution PCM - DXD - up to 32 bit 384 KHz. DXD PCM files can also be received over USB. In the digital section with as much as 132 dB (theoretical value) of tremendous dynamic range, Burr-Brown's PCM1792A is a monolithic CMOS integrated circuit that includes stereo digital-to-analog converters and support circuitry that uses TI's advanced segment DAC architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. It also supports both multi-bit and single-bit processing. Jitter has been reduced to 100p or less compared with conventional converters and incorporates a 24-bit extender that increases the CD's dynamic range Both the decimation filter for the high-grade multi-bit & single bit output are user selectable.

Digital Inputs are selectable from the front panel to improve the performance of a music server or other digital music sources. There are two Toslink, two SPDIF, one USB & one AES/EBU inputs. Balanced drive has been thoroughly implemented in the DA converter output, and accordingly a large amount of sound data contained in the SACD's DSD file will be reproduced to the full.

This information is a reference material. Please take note that performance, function specifications, appearance, design, etc. are subject to change before release.

## FEATURES AND SPECIFICATIONS



### ■ DSD over USB – DoP

Both PCM upsampled up to 32/384 and native DSD 2.82/5.64 MHz are handled by the Texas Instruments TAS3152 chipset. In the digital section with as much as 132 dB (theoretical value) of tremendous dynamic range, Burr-Brown's PCM1792A is a monolithic CMOS integrated circuit that includes stereo digital-to-analog converters and support circuitry that uses TI's advanced segment DAC architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. It also supports both multi-bit and single-bit processing. DSD files are currently transferred using the DSD Over PCM (DoP) Spec. with USB. An ASIO driver is supplied for use with Windows playback programs such as Foobar which allows native DSD (1 bit) playback.

### ■ Digital circuit

- Dual-configured (monaural mode) PCM1792A manufactured by Texas Instruments is used for the Digital Analogue Converter (DAC), which has achieved an ultra-high signal-noise ratio/dynamic range (theoretical value: 132dB).
- The jitter reduction function is provided to decrease the jitter from the system clock (70 x 10<sup>-12</sup> sec. or less, approx. 1/100 compared with a conventional counterpart).
- Select between native DSD or decimated multi-bit PCM signal on SACD playback according to your taste.
- You can switch between the SACD layer and the CD layer either from the front panel or else from the remote control.
- Digital input terminals are provided (consisting of 2 coaxial (SPDIF), 2 TOSLINK 1 AES/EBU and 1 USB) to allow you to enjoy the high quality of the on-board Digital Analogue Converter (DAC) while using other digital devices iPod & iTransport, Music Server,, digital tuner..

### ■ Analog circuit

- The differential output of the DA converter is configured in dual mono, which is fed into a high quality buffer circuit, which in turn drives four identically configured amplifier (fully balanced, differential configuration), and drives amplifier's gain stage with low impedance.
- Stable and high inertial power is supplied from the audio-specific power transformer to each circuit through the regulator and block capacitor with large capacity allocated to each circuit.

### ■ Structure

- This system has a complex structure consisting of a loopless chassis to eliminate increased ground impedance and the effect of electro magnetic fields caused by chassis current and a shielded chassis to block digital noise.
- The non-magnetic, nickel AC inlet has been gold plated to assist in providing clean AC.
- High quality 18-mm pitch gold plated RCA terminals as well as high-grade Neutrik XLR terminals allow even high-performance, long cable runs to be utilized without any sonic degradation..
- The cast-iron gradation feet are provided to protect tiny delicate sound signals from unwanted mechanical vibration.

Analogue Outputs	1 x unbalanced (RCA) & 1 x balanced (XLR)
Digital Input USB - DSD	1 x USB, 1-bit @ 2.8224 MHz & 5.6448 MHz (needs ASIO 2.1 DSD driver)
Digital Input USB - PCM	1 x USB up to 32 bit, 384 kHz
Digital Inputs - PCM	2 x SPDIF (RCA), 2 x Toslink & 1 x AES/EBU - up to 24 bit, 192 kHz
Digital Outputs	1 x Coaxial (SPDIF), 1 x Optical (Toslink)
Frequency Response	4 Hz to 20 kHz (+0, -0.4dB) , 2 Hz to 60 kHz (+0, -3.0dB)
Total Harmonic Distortion rate	0.0005% (for PCM), 0.0007% (for DSD/PCM)
S/N Ratio	123dB
Attachments	[Front panel] Power switch, phase invert, PCM filter, DSD filter, digital input selection, digital output & FL display. [Rear panel] Input/output terminals and AC inlet
Dimensions (WxHxD), and Weight	17.3" (440) x 3.6" (92) x 15.75" (400 mm) .24 lbs (11kg)
Accessories	Power Cord

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