

SUPER AUDIO CD PLAYERS

D-06U



The D-06u has been painstakingly designed to make the most of both CDs and SACDs, whilst also offering coaxial, optical and asynchronous USB inputs for external digital sources, thus enabling them to benefit from the player's exemplary digital and analogue output circuitry. For disc playback, the LxDTM transport mechanism is a proprietary Luxman creation – a high-rigidity design constructed to block out external vibrations, with a die-cast aluminium loader for smooth, quiet, resonance-free operation.

The player's digital circuits incorporate a Burr-Brown PCM1792A D/A converter, supporting not only CD and SACD playback, but also PCM data up to 32-bit/384kHz and DSD data up to 5.64MHz via the USB input. This is a far higher specification than that required by most current music formats, ensuring the D-06u is fully equipped for future advances in ultra-high-definition digital sound.

The D/A converter chip combines with Texas Instruments' TAS3152 32-bit digital signal processor, which upsamples PCM data to 384kHz and supplies three digital filter options for PCM, plus a pair of tone settings for DSD. Jitter (digital distortion) is reduced in three ways: for USB signals, by the dedicated DSP via asynchronous communication; for CD and S/PDIF signals, by the embedded DAIR high-precision clock; and for SACD signals, by a dedicated jitter reduction chip. In addition, a low phase noise clock module improves the accuracy of the entire signal transmission.

The D-06u's analogue output stage is of the highest quality, utilising audiophile-grade components in a fully balanced configuration with a regulated, high-inertia power supply. Build quality is exemplary, as it is throughout the Luxman range, right down to the cast-iron, resonance-reducing feet. The player comes with dedicated 'Luxman Audio Player' software for PC/Mac, enabling a wide range of digital audio formats to play through the D-06u via the USB input, including FLAC, ALAC, WAV, A IFF, MP3, DSF and DSIDIFF.

SPECIFICATIONS

Item	Value
Format	2-channel Super Audio CD, CD
Power supply	230 V ~ (50 Hz)
Power consumption	29 W / 1 W (at standby)
Weight	15.7 kg (main unit only)
Max. external dimensions	440 (W) x 133 (H) x 410 (D) mm
Ambient operating temperature / Ambient operating humidity	+5 °C to +35 °C / 5 % to 85 % (non condensing)
Output voltage / output impedance:	
UNBALANCE terminal (RCA terminal)	2.5 V_{rms}/300Ω
BALANCE terminal (XLR terminal)	2.5 V_{rms}/600Ω
For SACD/DSD (-0.5 dB)	2.35 V_{rms}
Frequency response:	
CD, SACD	5 Hz to 20 kHz (+0, -0.5 dB)
BALANCE terminal (XLR terminal)	2.5 V_{rms}/600Ω
For SACD/DSD (-0.5 dB)	2.35 V_{rms}
Total harmonic distortion:	
CD	0.0015 %
SACD	0.0011 %
COAX/OPT	0.0009 %

USB	0.0009 %
S/N ratio:	
CD	122dB
SACD	104dB
COAX/OPT	123dB
USB	123dB
Dynamic range:	
CD	100 dB
SACD	104 dB
COAX/OPT	123 dB
USB	123 dB
Channel separation:	
CD	110 dB
SACD	103 dB
COAX/OPT	124 dB
USB	124 dB
Coaxial digital input:	0.2 to 2.5 Vp-p
Optical digital input:	-14.5 to -21 dBm
USB input: (Applicable OS)	Microsoft Windows Vista or later, Mac OS X10.7 or later
Sampling Frequency:	
OPT/COAX	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz 96 kHz, 176.4 kHz, 192 kHz
USB input	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz 96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz 384 kHz (16 bit, 24 bit, 32 bit) 2.8224 MHz, 5.6448 MHz (1 bit)
Coaxial digital output:	RCA terminal 0.5 Vp-p/75Ω
Optical digital output:	Optical digital terminal -15 to -21 dBm