7. TECHNICAL DATA

7.1 CD-DAC C31

General

Weight	15,5 kg / 34.2 lbs
Dimensions (without cables)	W 45,0 cm / D 42,2 cm / H 14,5 cm W 17.7 in / D 16.6 in / H 5.7 in
Dimensions with packaging	W 59,0 cm / D 54,0 cm / H 35,5 cm W 23.2 in / D 21.3 in / H 21.9 in
Line Voltage	230 Vac / 50 Hz or 115 Vac / 50/60 Hz (single voltage, factory setting depending on country)
Power consumption	
in stand by	< 0.5 VA
in idle	< 20 VA
Maximum	21 VA (during 'Play')

Digital Inputs

1 x Toslink

Connection	Snap-In-Type
Wavelength	650 nm
Nominal Input Power	10mW
Working input power range	3mW - 30mW
electrically/galvanically Isolated	optically isolated

1 x S/P-DIF

Connection	RCA
Input Impedance	75 Ohm
Nominal Input-Level	0.5 Vpp
Working Input-Voltage Range	0,2 - 5 Vpp
electrically/galvanically Isolated	galvanically isolated

USB Input

Connection	USB Type B
Sampling Frequency	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Mode	MCMI (Master Clock Mode Interface), Asynchronous USB
electrically/galvanically Isolated	galvanically isolated
Operating System Drivers	Natively supported, without any special driver

Digital Outputs

1 x S/P-DIF

Connection	RCA
Output Impedance	75 Ohm
Nominal Output-Level	0.5 Vpp
electrically/galvanically Isolated	galvanically isolated

Analog Outputs

Maximum Output Level	
Unbalanced RCA Out	2 V @ 0 dBFS
Balanced XLR Out	4 V @ 0 dBFS
Output Impedance (RCA / XLR)	100 Ohm / 200 Ohm
Absolute Phase (RCA / XLR)	In-Phase / Pin-2 = In-Phase
Total Harmonic Distortion (THD)	< 0.001% @ 0 dBFS
Signal to Noise Ratio (RCA / XLR)	> 110 dB (A-Weighted) @ 0 dBFS
Channel Separation	> 100 dB @ 1 kHz

CD Section

CD Mechanism	Slot drive, front loader
Media	Standard compact disc (Red Book), 12 cm and 8 cm discs
Formats	CD, CDR, CD-RW (Multi-Read)
Book-Type	CD-DA, CD-Extra, Extended CD, CD-Enhanced
Laser type	780 nm (reads black CDR)
Resolution / Sample Rate	16 Bit / 44.1 kHz (CD-Digital-Audio)
Control Features	Play, Pause, Stop, Skip FW, Skip BW, Repeat One, Repeat All, Shuffle
CD-Text	Album Title, Album Artist, Track Title, Track Artist

DAC Section

Resolution	24 Bit
Sampling Frequencies	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
D/A Converter Type	Multi-Bit Delta Sigma
Jitter Reduction	Digital/Analog Dual Nested PLL for effective jitter reduction
Digital Oversampling Filter	Psychoacoustic optimized filter of 4/5 Minimum Phase and 1/5 Linear Phase
Analog Output Filter	Group Delay Optimized Bessel Filter @ 40 kHz