

C.E.C.

since 1954



CEC DA 0 3.0 - Universal DSP controlled discrete resistor ladder 32bit/384kHz Audio D/A Converter

The brand new CEC DA 0 3.0 which is based on the traditional multibit DAC concept achieves the most modern and sophisticated implementation at the highest precision level. The latest technology available, profound knowledge and long experience are all here.

The CEC DA 0 3.0 - uses a concept called R2R ladder- it is a resistor matrix system appliance that is switched for the various output levels outputting a fraction of an internal reference (much like a volume control).

In order to bring the performance of multibit DAC's to new stage the only solution is to build them from discrete components as there are no off the shelf chips good enough. This involves the selection of ultra-precision resistors, thermally coupling them and building a very fast and sophisticated switching logic to control

them. The result is an order of magnitude better performance than what is achievable by IC based solution. To take advantage of the available resolution and bandwidth, a state of the art digital preprocessing has been applied. This is a suite of algorithms that would apply digital filtering and up sampling to the incoming data stream. After processing a 16bit 44.1kHz CD data stream it is converted to 32bit 352.8kHz data fed directly to the DAC This greatly improves low-level resolution and the sense of music stage. The process is all user controllable and defeasible for purist band non-oversampling use. Apart from taking the uncompromising approach to discrete ladder technology, exceptional care with the construction and operation of each circuit within the DAC have been taken.



The ultimate task of a high end audio component is to breathe life into reproduced music and convey to the listener that the soul of the performer lives in each musical event. Test reports in international magazines as well as the testimony of our satisfied customers worldwide confirm that we have achieved our musical objective: **music reproduction on its highest level.**
More information: www.cec-international.com

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The CEC DA 0 3.0 uses transformer to optical decoupling of all inputs so that contaminated ground connection and other interfering signals do not intervene the inside of the unit. The CEC DA 0 3.0 has no output filter at the DAC output providing the cleanest possible output signal, just a transformer matching the impedance of the converter resistors to the outside world and isolating them from external influence.

The CEC DA 0 3.0 uses completely separate power supplies for each block in the DAC: the Converters, Clock, DSP and Control logic all with floating ground planes and our original constant current regulator technology. Then each assembly is mounted on a solid aluminum case for vibration damping and EMI/RFI screening. The CEC DA 0 3.0 is in a different league from all currently available high end DAC's.

The feature list includes among others: Multibit conversion, DSD64 and DSD128 support, 1ppm resolution, Transformer isolated output, No I/V conversion nor output buffers, no filtering after DA, total galvanic Isolation of internal circuits from outside world, Internal clock generators, Selectable re-clocking, Selectable up-sampling, Selection of 4 digital filters.

The CEC DA 0 3.0 D/A converter is the ideal counterpart for CEC wholeheartedly recommend CD Transport TL 0 3.0. You may enjoy music reproduction quality at its finest. The calm, supreme composure and confidence with which the TL 0 3.0 and DA 0 3.0 produce music together recall the playback by an analogue mass-loaded turntable. The concentrated application of know-how, innovative capacity and decades of experience have quite obviously paid off.



CEC SUPERLINK Digital Signal Transmission System Connection was redesign for the new DA 0 3.0. SUPERLINK is CEC's proprietary digital signal transmission system that transports music signals and synchronization (clock) signals with separate cables. The SPDIF- and AES/EBU- systems, commonly used in coaxial digital outputs and optical outputs, transmit both the music and clock signals through the same cable, and thus are prone to jitter effects caused by the signals interfering with each other. CEC's SUPERLINK system transmits these signals separately with multiple cables, requiring no encoding/decoding process for data transmission. It minimizes deterioration of the music signal during transmission by using the clock signals from the D/A converter's master clock generator to achieve complete synchronization.

CEC combines the best drive system, with a very excellent transfer concept and precise signal processing to create a CD drive/ converter package with superior sound quality - to pack more into these products that is currently unimaginable.

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DAC	Universal DSP Controlled resistor ladder 32bit/384kHz Audio DAC
Power Supply	AC 120-230V / 50-60Hz
Digital Input	SUPERLINK:(BNC x 4) 2.5Vp-p/75ohm Coaxial (SPDIF): 0.5Vp-p/75ohm TOS (optical): -21 - -15dBm EIAJ AES/EBU (Balanced XLR; HOT=2) USB 2.0: PCM 32bit/32-384kHz, DSD64/2.8224-128/5.6448MHz
Analog Output	Balanced XLR connectors Unbalanced RCA connectors
Digital Filter	Selection of 4 digital filters
Consumption	30W
Dimensions	432 (W) x 400 (D) x 120 (H) mm
Weight	approx. 21kg
Color	Silver

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