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DAC 1



DAC 1

DIGITAL / ANALOG CONVERTER WITH PREAMPLIFIER

The B.M.C. DAC 1 is not a standard digital-to-analog converter; it is a preamplifier and the control center for a full-B.M.C. system.

Accurate timing separates the men from the boys in the world of digital audio. This is where Superlink comes in. In addition to standard S/PDIF inputs, the DAC 1 offers B.M.C.'s proprietary Superlink connection to the BDCD 2. Superlink is an uncompromising digital connection that employs four separate BNC cables for the clock and the digital audio signal, with the master clock being very near the digital-to-analog conversion.

The DAC 1's asynchronous, high-resolution (32-bit / 384kHz) USB input generates the music data stream immediately before the D-to-A conversion. The DAC 1's high-precision master clock is right next to the D-to-A-converter and creates the ideal foundation for a perfect time-corrected digital signal, producing more natural sound than other DACs.

On the analog side, the signal current from the D-to-A converter is converted to output voltage via a virtually distortion-free Current Injection input and Load-Effect Free circuit with an extremely short signal path. The result? No "digital" sound.

The DAC 1 becomes the center of a high-end audio system through its preamplifier function. This can be accomplished with a classic preamplifier section for variation of the output signal or, in a B.M.C. component chain, by sending the audio signal straight to the B.M.C. power amplifier. The volume level is set at the DAC 1 and transmitted through an optical connector to the power amplifier, where the gain is adjusted. The result is a perfect lossless volume control.

ANALOG AND DIGITAL DOMAIN ARE PERFECTLY COMBINED IN A SINGLE COMPONENT: THE DAC 1



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DAC I



Preamplifier Module

Digital / Analog Module

Input, Decoder and Control Module

Power Supply Module

DAC I FEATURES

- A digital-to-analog-converter and full- feature preamplifier. The center of a modern audio system.
- Superlink input for the B.M.C. CD transport, delivering sound quality not achievable by the common S/PDIF connection.
- USB input for use with a media server or computer, with up to 32-bit/384kHz resolution. For modern audio systems, this is the most important input.
- S/PDIF, AES/EBU, coaxial and TosLink inputs.
- Dual-mono D-to-A-converter with CI-analog stages and LEF output-driver circuitry.
- Balanced XLR input and two standard RCA inputs.
- B.M.C. Link (DIGM) for maximized sound quality with B.M.C. amplifiers.
- Digital filter with two selectable characters: pulse-optimized and standard.
- Selectable oversampling for minimum or maximum filtering.
- Selectable sample-rate-conversion.
- Modular design.
- Power supply with an O-core transformer and 70.000µF of filter capacitance.
- Voltage regulation for each module.
- Massive aluminum cabinet.
- Custom parts such as polystyrene and balanced-current capacitors.

