



# Berkeley Audio Design Alpha DAC™



Digital audio reproduction  
“closest to the microphone feed”

From the inventors of HDCD  
and designers of the  
Pacific Microsonics Model One and Two



## PRODUCT HIGHLIGHTS

- Highest audio quality DAC
- All distortion products below one part per million
- IR remote control of preamp functions including volume and balance allows direct connection to power amplifiers
- Unequalled interpolation technology up-samples 44.1kHz CD's to almost 176.4kHz quality and provides superb fidelity at all sampling rates from 32kHz to 192kHz
- Advanced input signal jitter rejection
- BADA encrypted input allows future support of HDMI and other DRM formats
- Designed by Pacific Microsonics Model Two design team

## CONTROLS & INDICATORS

- **Input** selects AES, SPDIF, Toslink or BADA inputs
- **Lock** LED indicates input signal lock
- **HDCD** LED indicates HDCD code detected
- **Phase** sets absolute phase
- **Invert** LED indicates absolute phase inverted
- **3 digit** LED display of Stereo/L/R attenuation, Sampling Rate and Filter type
- **±** controls set attenuation level and select Filter type
- **Mode** selects Stereo/L/R attenuation, Sampling Rate and Filter type display modes
- **Dim** selects multiple display brightness levels

## SPECIFICATIONS

- Input sampling rate: 32kHz to 192kHz
- Input word length: 24-bit
- Two channel analog stereo outputs: XLR balanced and RCA unbalanced
- Digital Inputs: AES - Single XLR 110Ω, SPDIF - BNC 75Ω, Toslink - Optical, BADA encrypted - RJ-45
- HDCD decoding detects 16-bit flag at 44.1kHz or 24-bit flag at all sampling rates
- Multiple digital filter options
- Multiple units can be combined for multi-channel/surround reproduction
- Balanced analog output level: +18dBu maximum, +12dBu or lower recommended,  $\geq 5K\Omega$  load recommended
- Unbalanced analog output level: 3.25Vrms maximum, 2Vrms or lower recommended,  $\geq 5K\Omega$  load recommended
- Digital attenuation and balance control: 0.1dB/step with .05dB/step trim, 60dB range
- Frequency response at  $\geq 88.2kHz$  sampling rates:  $\pm 0.1dB$  from  $< 0.1Hz$  to 35 kHz, - 3dB at 59kHz for 176.4kHz and 192kHz sampling rates
- Distortion at recommended levels: all products  $\leq -120dBFS$
- THD+N at maximum level:  $< -110dBFS$
- Firmware upgradeable through signal inputs
- Enclosure dimensions: 1.75"H X 16.5"W x 10.3"D, 19" rack mount option
- Mains voltage: 120/240VAC, 50/60Hz
- Power consumption: 25W

For more information visit [www.berkeleyaudiodesign.com](http://www.berkeleyaudiodesign.com), e-mail [info@berkeleyaudiodesign.com](mailto:info@berkeleyaudiodesign.com) or call 510-277-0512