

# DATA SHEET

## NEXIA® VC

### VIDEOCONFERENCE DSP



Nexia VC is a digital signal processor with 8 wide-band AEC mic/line inputs, 2 standard mic/line inputs, 4 mic/line outputs, and a codec interface. Intended for a variety of videoconferencing applications, Nexia VC uses Biamp's Sona™ AEC technology for more natural sound and full-duplex transmission of speech. Nexia VC includes a broad selection of audio components, routing options, and signal processing. The internal system design is completely user definable via PC software, and can be controlled via daVinci™ software screens, RS-232 control systems, and a variety of optional remote controls. Multi-unit Nexia systems can be created utilizing Ethernet and NexLink digital audio linking.

#### FEATURES

- 8 wide-band AEC balanced mic/line inputs
  - 2 standard balanced mic/line inputs
  - 4 balanced mic/line outputs
  - Codec interface with balanced line input & output
  - Ethernet port for software configuration/control
  - Serial port for third-party RS-232 remote control
  - NexLink ports for multi-unit system designs
  - Nexia software for Windows®
  - Pre-configured I/O with definable processing
  - CE marked, UL listed and RoHS compliant
  - Covered by Biamp Systems' 5-year warranty
- Ability to select, view, and calibrate:
    - Mixers: standard, automatic, matrix, combiners
    - Equalizers: graphic parametric, feedback
    - Filters: HPF, LPF, high shelf, low shelf, all-pass
    - Crossovers: 2-Way, 3-Way and 4-Way
    - Dynamics: leveler, comp/limiter, ducker, ANC
    - Routers: 2x1 ~ 32x32
    - Delays: 0 ~ 2000ms
    - Controls: levels, presets, logic, RS-232, etc.
    - Meters: signal present, peak, RMS
    - Generators: tone, pink-noise, white-noise
    - Diagnostics: transfer function

## ARCHITECTS & ENGINEERS SPECIFICATION

The videoconference DSP shall provide eight wide-band Sona™ AEC balanced mic/line inputs, two standard balanced mic/line inputs, four balanced mic/line outputs, and codec audio input/output on plug-in barrier-strip connectors. Inputs and outputs shall be analog, with internal 24-bit A/D & D/A converters operating at a sample rate of 48kHz. All internal processing shall be digital (DSP). NexLink connections shall allow sharing of digital audio within multi-unit systems. Software shall be provided for creating/connecting DSP system components within each hardware unit. Available system components shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, delays, remote controls, meters, generators, and diagnostics. Ethernet communications shall be utilized for software control and configuration. After initial programming, processors may be controlled via dedicated software screens, third-party RS-232 control systems, and/or optional remote control devices. Software shall operate on a PC computer, with network card installed, running Windows®. The videoconference DSP shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The videoconference DSP shall be Nexia VC.

## NEXIA VC SPECIFICATIONS

<b>Frequency Response</b> (20Hz-20kHz @ +4dBu):	+0/-0.4dB	<b>Phantom Power:</b>	+48 VDC (7mA/input)
<b>THD+N (20Hz-20kHz @ +4dBu):</b>		<b>Cross Talk (channel to channel @ 1kHz):</b>	
<b>Line level:</b>	< 0.006%	<b>Line level:</b>	< -80dB
<b>Mic level:</b>	< 0.05%	<b>Mic level:</b>	< -75dB
<b>EIN (20Hz-20kHz, 66dB Gain, 150Ω):</b>	-125dBu	<b>Power Consumption</b> (100-240VAC 50/60Hz):	65W
<b>Dynamic Range (20Hz-20kHz, 0dB):</b>	> 105dB	<b>Overall Dimensions:</b>	
<b>Tail Length:</b>	up to 300ms	<b>Height:</b>	1.75 inches (44 mm)
<b>Convergence:</b>	up to 100dB/sec	<b>Width:</b>	19.0 inches (483 mm)
<b>Input Impedance (balanced):</b>		<b>Depth:</b>	11.2 inches (283 mm)
<b>Mic/Line Inputs:</b>	8kΩ	<b>Weight:</b>	8.6 lbs (3.9 kg)
<b>Codec:</b>	15kΩ	<b>Sampling Rate:</b>	48kHz
<b>Maximum Input:</b>	+24dBu	<b>A/D - D/A Converters:</b>	24-bit
<b>Input Gain Range (variable):</b>		<b>Compliance:</b>	
<b>Mic/Line Inputs:</b>	0 - 66dB		CE marked (Europe)
<b>Codec:</b>	0 - 18dB		UL listed (USA & Canada)
<b>Output Impedance (balanced):</b>	200Ω		RoHS Directive (Europe)
<b>Maximum Output:</b>	+24dBu		
<b>Full Scale Output Level (six selections):</b>	-31dBu ~ +24dBu		

## NEXIA VC BACK PANEL

