

B I A M P®


**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 proprietary TrueSound™ AEC algorithm 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
- remote control bus for dedicated control panels
- NexLink ports for multi-unit system designs
- Nexia software for Windows® 2000/XP Professional
- pre-configured I/O with definable processing
- **RoHS** compliance and **AES** grounding practices
- **CE** marked and **UL** listed
- covered by Biamp Systems' five-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 ~ 2000 ms
  - 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 TrueSound™ 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.

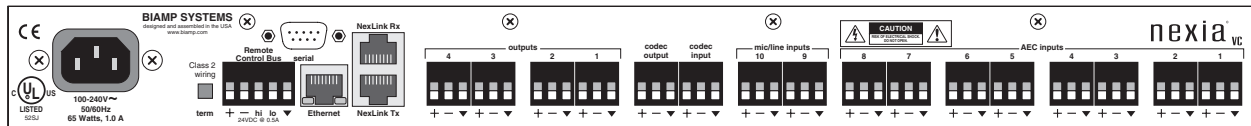
Software shall be provided for creating/connecting DSP system components within each hardware unit. Available system components shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, delays, remote controls, meters, generators, 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® 2000/XP Professional. The videoconference DSP shall be CE marked, UL listed, and shall incorporate AES48-2005 Grounding & EMC practices. The videoconference DSP shall be compliant with EU Directive 2002/95/EC, the RoHS directive. Warranty shall be 5 years.

The videoconference DSP shall be Nexia® VC.

## Nexia® VC SPECIFICATIONS

<b>Frequency Response</b> (20Hz~20kHz @ +4dBu):	+0/-0.4dB	<b>Output Impedance</b> (balanced):	200 ohms
<b>THD +N</b> (20Hz~20kHz @ +4dBu):		<b>Maximum Output</b> (balanced):	+24dBu
line level	< 0.006%	<b>Full Scale Output Level</b> (six selections):	-31dBu ~ +24dBu
mic level	< 0.05%	<b>Sampling Rate:</b>	48kHz
<b>Equivalent Input Noise</b> (20Hz~20kHz, 66dB gain, 150 ohm):	-125dBu	<b>A/D - D/A Converters:</b>	24-bit
<b>Dynamic Range</b> (20Hz~20kHz, 0dB):	> 105dB	<b>Phantom Power:</b>	+48 VDC (7mA/input)
<b>Maximum Gain</b> (mic input to line output):	66dB	<b>Power Consumption</b> (100~240VAC 50/60Hz):	65 watts
<b>Crosstalk</b> (channel-to-channel @ 1kHz):		<b>Dimensions:</b>	
line level input	< -80dB	height	1.75 inches (45mm)
mic level input	< -75dB	width	19 inches (483mm)
<b>Input Impedance</b> (balanced):		depth	11.15 inches (283mm)
mic/line inputs	8k ohms	<b>Weight:</b>	8.6 lbs. (3.9kg)
codec input	15k ohms	<b>Compliance:</b>	AES48-2005 Grounding & EMC practices EU Directive 2002/95/EC, RoHS directive CE marked UL listed
<b>Input Gain Range</b> (variable):			
mic/line inputs	0dB ~ +66dB		
codec input	0dB ~ +18dB		
<b>Maximum Input</b> (balanced):	+24dBu		

## Nexia VC REAR PANEL DIAGRAM



## Nexia BLOCK DIAGRAM

