BIAMP®

RoHS Compliant EU 2002/95/EC

Nexia® CS
DSP Conference System

Nexia CS is a digital signal processor with 10 mic/line inputs and 6 mic/line outputs. Intended for a variety of conferencing applications such as boardrooms, courtrooms, and council chambers, Nexia CS 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/or a variety of optional remote control devices. Multi-unit Nexia systems can be created utilizing Ethernet and NexLink digital audio linking.

FEATURES

- 10 balanced mic/line inputs on plug-in barrier strip
- 6 balanced mic/line outputs on plug-in barrier strip
- 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® XP Professional/Vista
- pre-configured I/O with definable processing
- mix, route, combine, EQ, delay, control, etc.
- **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 DSP conference system shall provide ten balanced mic/line inputs and six balanced mic/line outputs 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® XP Professional/Vista. The DSP conference system shall be CE marked, UL listed, and shall incorporate AES48-2005 Grounding & EMC practices. The DSP conference system shall be compliant with EU Directive 2002/95/EC, the RoHS directive. Warranty shall be 5 years.

The DSP conference system shall be Nexia® CS.

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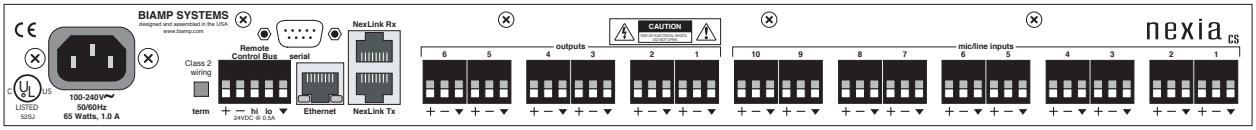
Nexia® CS SPECIFICATIONS

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

Nexia CS REAR PANEL DIAGRAM



Nexia BLOCK DIAGRAM