BIAMP®

NEW

NEXIA® TC
Teleconference DSP

NEXIA TC is a digital signal processor with 8 wide-band AEC mic/line inputs, 2 standard mic/line inputs, 4 mic/line outputs, and a telephone interface. Intended for a variety of teleconferencing applications, NEXIA TC 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 dedicated 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
- telephone interface with line & set connections
- 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
- pre-configured I/O with definable processing
- **CE** marked and **UL** listed
- covered by Biamp Systems' five-year warranty
- Ability to select, view, and calibrate: Mixers, Equalizers, Filters, Crossovers, Dynamics, Routers, Delays, Controls, Meters, Generators, Diagnostics.
- Telephone Interface capabilities include:
  - initiation of outgoing calls
  - detection and answering of incoming calls
  - line echo cancellation
  - TouchTone™ decoding
  - caller ID reception
  - call progress detection
  - line intrusion detection
  - continuous line status and fault monitoring

ARCHITECTS & ENGINEERS SPECIFICATION

The teleconference DSP shall provide eight wide-band AEC balanced mic/line inputs, two standard balanced mic/line inputs, and four balanced mic/line outputs on plug-in barrier-strip connectors. A telephone interface shall be provided on a pair of RJ11 jacks. 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. The DSP conference system shall be CE marked, UL listed, and carry a five-year warranty.

The teleconference DSP shall be NEXIA® TC.

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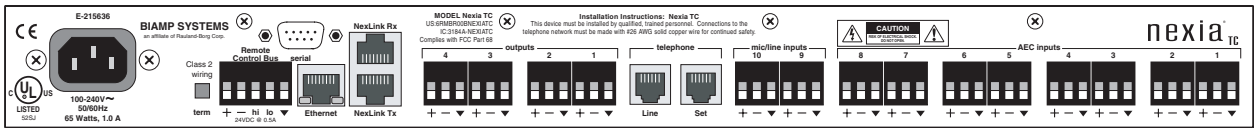
NEXIA® TC SPECIFICATIONS

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
Telephone Interface	
ringer equivalency number	0.0B
dynamic range	67dB
frequency response	250Hz ~ 3.4kHz
THD	< 0.3%
transhybrid balance	30dB
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)

NEXIA TC REAR PANEL DIAGRAM



NEXIA TC BLOCK DIAGRAM