

BIAMP®



Nexia® PM DSP Presentation Mixer



Nexia PM is a digital signal processor with 4 mic/line inputs, 6 stereo line inputs, and 6 line outputs. Intended for multi-media presentation applications requiring both microphone and program content, Nexia PM 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

- 4 mic/line inputs & 6 stereo program line inputs
- 6 line outputs (configurable as stereo pairs)
- 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
- 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 presentation mixer shall provide four balanced mic/line inputs and six balanced line outputs on plug-in barrier-strip connectors, plus six unbalanced stereo line inputs on RCA 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.

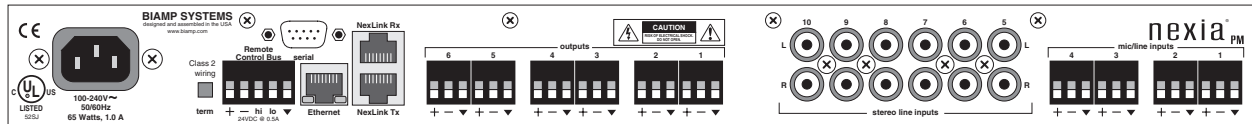
Software shall be provided for creating/connecting DSP system components within each hardware unit. Available system components shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, delays, remote controls, meters, generators,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

The DSP presentation mixer shall be Nexia® PM.

Nexia® PM SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-0.4dB	Output Impedance (balanced):	200 ohms
THD +N (20Hz~20kHz @ +4dBu):		Maximum Output (balanced):	+24dBu
line level	< 0.006%	Full Scale Output Level (five selections):	0dBu ~ +24dBu
mic level	< 0.05%	Sampling Rate:	48kHz
Equivalent Input Noise (20Hz~20kHz, 66dB gain, 150 ohm):	-125dBu	A/D - D/A Converters:	24-bit
Dynamic Range (20Hz~20kHz, 0dB):	> 105dB	Phantom Power:	+48 VDC (7mA/input)
Maximum Gain (mic input to line output):	66dB	Power Consumption (100~240VAC 50/60Hz):	65 watts
Crosstalk (channel-to-channel @ 1kHz):		Dimensions:	
line level input	< -80dB	height	1.75 inches (45mm)
mic level input	< -75dB	width	19 inches (483mm)
Input Impedance:		depth	11.15 inches (283mm)
balanced mic/line inputs	8k ohms	Weight:	8.6 lbs. (3.9kg)
unbalanced stereo line inputs	10k ohms	Compliance:	AES48-2005 Grounding & EMC practices EU Directive 2002/95/EC, RoHS directive CE marked UL listed
Maximum Input:			
balanced mic/line inputs	+24dBu		
unbalanced stereo line inputs	+18dBu		
Input Gain Range (variable):			
balanced mic/line inputs	0dB ~ +66dB		
unbalanced stereo line inputs	0dB ~ +18dB		

Nexia PM REAR PANEL DIAGRAM



Nexia BLOCK DIAGRAM

