

# DATA SHEET

## 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®
- Pre-configured I/O with definable processing
- Mix, route, combine, EQ, delay, control, etc.
- 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 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®. The DSP presentation mixer shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The DSP presentation mixer shall be Nexia PM.

## NEXIA PM 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>	
Line level:	< 0.006%	Line level:	< -80dB
Mic level:	< 0.05%	Mic level:	< -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>Input Impedance:</b>		Height:	1.75 inches (44 mm)
Balanced mic/line inputs:	8kΩ	Width:	19.0 inches (483 mm)
Unbalanced stereo line inputs:	10kΩ	Depth:	11.2 inches (283 mm)
<b>Maximum Input:</b>		Weight:	8.6 lbs (3.9 kg)
Balanced mic/line inputs:	+24dBu	<b>Sampling Rate:</b>	48kHz
Unbalanced stereo line inputs:	+18dBu	<b>A/D - D/A Converters:</b>	24-bit
<b>Maximum Gain:</b>	66dB	<b>Compliance:</b>	
<b>Input Gain Range (variable):</b>			CE marked (Europe)
Balanced mic/line inputs:	0 - 66dB		UL listed (USA & Canada)
Unbalanced stereo line inputs:	0 - 18dB		RoHS Directive (Europe)
<b>Output Impedance (balanced):</b>	200Ω		
<b>Maximum Output:</b>	+24dBu		
<b>Full Scale Output Level (five selections):</b>	0dBu ~ +24dBu		

## NEXIA PM BACK PANEL

