



The MXA Series of mixer/amplifiers combines a versatile 6-input mic/line mixer with either 35, 75, 150, or 300 Watt amplification. Mixing functions include mic/line/tel inputs, selectable automatic & manual channel muting, channel priority assignment, remote level control, tone control, a built-in limiter, an internal chime, phantom power, MOH output, and extensive patching. The amplifier includes an output transformer, and provides rated power into direct or distributed speaker systems. The MXA Series carries a five-year warranty.

### FEATURES

- integrated mixer, power amplifier, and output transformer
- six electronically balanced microphone/line input channels
- channel 1 selectable for 600 ohm transformer tel input
- rear panel trim & peak indicator on each input channel
- +48 Volt phantom power selectable on each input channel
- automatic muting of selected channels (-20dB or -80dB)
- automatic muting triggered by selected priority channels
- manual muting of selected channels (-20dB or -80dB)
- manual muting triggered from remote contact closures
- remote control of master level via rear panel terminals
- integral output limiter with rear panel threshold control
- recessed tone controls plus rear panel low-cut filter switch
- patch points for signal processing and systems interconnect
- Music On Hold output with independent level, from input 6
- 35, 75, 150, or 300 watts into direct or distributed systems
- front panel indicators for power, signal, peak, temp, & fault
- internal pre-announcement chime tone with level control
- input/output connections provided on barrier strip terminals
- RoHS compliance and AES grounding practices
- CE marked and UL / C-UL listed
- CCC certified
- covered by Biamp Systems' five-year warranty

### ARCHITECTS & ENGINEERS SPECIFICATION

The mixer/amplifier shall provide a 6-input mic/line mixer with an integral power amplifier. Four models shall be available, providing a choice of 35 Watt, 75 Watt, 150 Watt, or 300 Watt power amplification. The power amplifier shall include an output transformer, and shall be capable of delivering rated power into direct or distributed speaker systems. Front panel LEDs shall be provided for indication of power, signal, peak, temp, and fault conditions.

The mixer shall provide six electronically balanced mic/line input channels, with one channel selectable for 600 ohm transformer telephone input. Each channel shall include a rear panel trim control with peak indicator, a front panel level control, and a rear panel +48V phantom power switch. Automatic and/or manual muting, by -20dB or -80dB, shall be selectable on each channel. Automatic muting shall be triggered by selected priority channels and manual muting shall be triggered by external contact closures. The output section of the mixer shall include a master level control, recessed tone controls, a low-cut filter switch, a built-in limiter with a rear panel threshold control, and an internal pre-announcement chime tone with rear panel level control. Rear panel terminals shall allow remote control of master level. Output patching shall be provided for connection of external devices for recording, signal processing, and/or system interconnections. A Music On Hold output with independent level shall be derived from input 6. Input connections shall be on plug-in barrier strips, and amplifier output connections shall be on screw terminals.

Frequency Response shall be +0/-1.5dB from 20Hz to 20kHz at rated power into a direct load. THD + Noise shall be less than 0.2% at 1kHz at rated power. Equivalent Input Noise shall be -123dBu at mic input with 150W termination. Signal-to-Noise shall be greater than 78dB from 20Hz to 20kHz at line input at rated power. Power consumption shall be less than 75W (MXA35), 100W (MXA75), 150W (MXA150), or 300W (MXA300). Dimensions shall be 3.47" (2 rack spaces) high, 19" wide, and 9.8" deep. Weight shall be 17.5 lbs. (MXA35), 19 lbs. (MXA75), 21 lbs. (MXA150), or 23 lbs. (MXA300). The mixer/amplifier shall be CE marked, UL/C-UL listed, and shall incorporate AES48-2005 Grounding & EMC practices. The mixer/amplifier shall be compliant with EU Directive 2002/95/EC, the RoHS directive. Warranty shall be 5 years.

The 35 Watt mixer/amplifier shall be a BIAMP MXA35.

The 75 Watt mixer/amplifier shall be a BIAMP MXA75.

The 150 Watt mixer/amplifier shall be a BIAMP MXA150.

The 300 Watt mixer/amplifier shall be a BIAMP MXA300.

## MXA SERIES SPECIFICATIONS

Output Power (4 ohm load):			
MXA35		35 watts	
MXA75		75 watts	
MXA150		150 watts	
MXA300		300 watts	
Output Transformer Voltages:		25V, 70V, 100V	
Frequency Response (+0/-1.5dB):			
4 ohm direct output		20Hz - 20kHz	
transformer output		50Hz - 20kHz	
THD+Noise (1kHz @ rated power):		< 0.2%	
Equivalent Input Noise (150 ohm termination):		-126dBu	
Signal-to-Noise Ratio (20Hz-20kHz):			
0dBu input, minimum trim		> 90dB	
-60dBu input, maximum trim		> 66dB	
Input Impedance / Sensitivity:			
mic/line inputs	10kΩ / -71dBu ~ -11dBu		
Tel (Channel 1)	600Ω / -71dBu ~ -11dBu		
EQ In & Amp In	10kΩ / 0dBu (774mV)		
Output Impedance / Level:			
Pre Out & Line Out	100Ω / 0dBu (774mV)		
MOH	200Ω / +6dBu (1.5V)		
Limiter:			
attack time		2 ms	
release time		500 ms	
compression ratio		20:1	
threshold adjust range		-10dBu ~ +18dBu	
Tone Controls:			
Treble			±12dB @ 10kHz
Bass			±12dB @ 50Hz
High-Pass Filter:			12dB/oct. @ 125Hz
Power Consumption:			
MXA35		< 75 watts	
MXA75		< 100 watts	
MXA150		< 150 watts	
MXA300		< 300 watts	
Dimensions (all models):			
height (2 rack spaces)			3.47" (88 mm)
width			19" (483 mm)
depth			9.8" (249 mm)
Weight:			
MXA35		17.5 lbs. (7.9 kg)	
MXA75		19 lbs. (8.6 kg)	
MXA150		21 lbs. (9.1 kg)	
MXA300		23 lbs. (10.5 kg)	
Compliance:			AES48-2005 Grounding & EMC practices
			EU Directive 2002/95/EC, RoHS directive
			UL / C-UL listed
			CCC Certified
			CSA tested to UL60065

## MXA300 REAR PANEL DIAGRAM

