

DATA SHEET

MA60

60W MIXING AMPLIFIER



The MA60 is a half-rack, 60W single channel mixing amplifier. Designed for ease of use, the front panel of the MA60 includes volume and microphone controls, providing immediate visual feedback regarding system operation. The MA60 is equipped with four priority levels for audio routing: one emergency input, one paging input, one mic/line input, and two stereo line, mono summed inputs. It's audio performance, ease-of-use, and versatile feature set makes the MA60 ideal for a variety of professional audio applications.

FEATURES

- Single channel; 60 watts of continuous power
- Supports 4Ω and 70V/100V outputs
- Class D amplifier topology
- Intuitive front and rear panels
- Four priority levels for audio routing
- 24V priority output overrides local volume controls
- Dedicated emergency input with mute all switch
- Paging mic input with contact closure and chime
- One mic/line level input with 48V phantom power
- Two stereo inputs
- Fanless operation
- Internal universal power supply
- Auto standby mode
- Rack mountable (2RU) with optional accessory
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The mixing amplifier shall provide 1 emergency input that shall be triggered by contact closure. The emergency input shall support user adjustable volume level via the rear panel. The mixing amplifier shall provide 1 paging input connection for receiving microphone or line level analog audio signals via Euroblock connectors. The paging input shall support volume control, user adjustable gain, and chime level via the rear panel. The mixing amplifier shall provide 1 balanced input connection for receiving microphone or line level analog audio signals via either Euroblock or RCA connectors. The balanced input shall support user adjustable gain via the rear panel. The mixing amplifier shall provide 2 unbalanced input connections for receiving line level analog audio signals via RCA connectors. Each unbalanced input shall support user adjustable gain via the rear panel. The mixing amplifier shall support 4 priority levels of audio transmission. The mixing amplifier shall provide output connection for the transmission of line level analog audio signals via Euroblock connector. The output channel shall support user adjustable EQ via the rear panel. The mixing amplifier shall include a switchable standby mode via the rear panel that reduces power consumption to 0.5 watts. The standby mode shall activate automatically after 10 minutes if no signal is detected. The standby mode shall be activated/deactivated manually by toggling the standby mode button on the front panel. The mixing amplifier shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The mixing amplifier shall be Biamp® MA60.

MA60 SPECIFICATIONS

INPUTS		OUTPUTS	
Number of Inputs		Number of Output Channels:	1
Emergency (line level with contact):	1	Output Connectors:	4-pin, 0.3 inch (7.6 mm) Euroblock
Paging Mic (mic level with contact):	1	70V/100V Mode:	Yes
Mic/Line (balanced):	1	Low Impedance Mode:	Yes
Stereo Line (unbalanced):	2	Priority Output Contact:	Yes
Input Priority Levels:	4	Minimum Operational Load:	4Ω
Priority Input Contact:	Yes	Amplifier	
Chime:	Yes	Topology:	Class D
Tone Control:	Yes	RMS Output Power (1% THD):	60 W
Wall Panel Controls:	Yes	Dynamic Power:	65 W
Music Level Control:	Yes	SNR (1% THD):	> 90 dB
Front Panel Indicators:	Signal present, clipping, overload condition, emergency mode active, paging active, VOX active	THD+N (@ -6dB):	< 0.5%
		Protection:	Temperature, overcurrent, overvoltage, undervoltage
Emergency Input		Priority Output	
Nominal Input Sensitivity:	0 dBV (1 Vrms)	Voltage:	24V
THD+N (Pre-Out, @ -6dB):	< 0.5%	Max Current:	0.5A
Frequency Response (-3dB):	100 Hz - 20 kHz	Pre-Out	
Input Impedance:	5 kΩ	Nominal Output Level:	0 dBV
Paging Mic		Standby	
Nominal Input Sensitivity (Bal. Mic):	-45 dBV (5.6 mVrms)	WakeUp Sensitivity:	
THD+N (Pre-Out, @ -6dB):	< 0.4%	Inputs 1-2:	-44 dBV (6 mVrms ± 10%)
Frequency Response (-3dB):		Mic (RCA):	-46 dBV (5 mVrms ± 10%)
Balanced Mic:	165 Hz - 20 kHz	Mic (Balanced, VOX off):	-70 dBV (0.3 mVrms ± 10%)
Unbalanced, Balanced Line:	20 Hz - 20 kHz	Time to Auto Standby:	10 min
Gain:	-15 to +15 dB	Power Consumption (100-240VAC 50/60Hz)	
Chime Length:	2 sec	Normal Operation:	100W
Input Impedance:	2 kΩ	Idle Operation:	4.5W
Mic		Standby Mode:	0.5W
Nominal Input Sensitivity:		Fuse:	1.6AL
Balanced Mic:	-45 dBV (5.6 mVrms)	Cooling:	Convection
Balanced Line:	-12 dBV (250 mVrms)	Overall Dimensions	
Unbalanced Line:	-12 dBV (250 mVrms)	Height (without feet):	3.5 inches (89 mm)
THD+N (Pre-Out, @ -6dB):	< 0.2%	Width:	8.5 inches (216 mm)
Frequency Response (-3dB):		Depth:	9.8 inches (250 mm)
Balanced Mic:	165 Hz - 20 kHz	Weight:	5.7 lbs (2.6 kg)
Unbalanced, Balanced Line:	20 Hz - 20 kHz	Environmental	
Phantom Power (balanced only):	+48VDC (7mA/input)	Ambient Operating	
VOX Attenuation (Mic, Inputs 1-2):	30 dB	Temperature Range:	32 - 95° F (0 - 35° C)
Input Impedance:	2 kΩ	Humidity:	0-95% relative humidity (non-condensing)
Inputs 1-2		Altitude:	0-6,600 ft (0-2000m) MSL
Nominal Input Sensitivity (Unbal. Line):	-12 dBV (250 mVrms)	Compliance	
THD+N (Pre-Out, @ -6dB):	< 0.1%		FCC Part 15B (USA)
Frequency Response (-3dB):	20 Hz - 20 kHz		UL listed (USA and Canada)
Input Impedance:	10 kΩ		CE Marked (Europe)
			RoHS Directive (Europe)

MA60 BACK PANEL



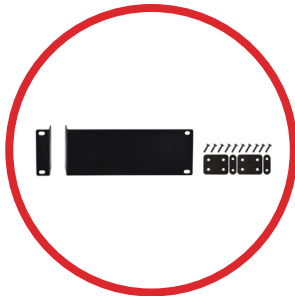
OPTIONAL ACCESSORIES



ALINP
Active local input panel



D-ALINP
Active local input panel
(Decora® style)



MA6060-19
Mounting kit



MICPAT-D
All call paging microphone

Biamp is either a trademark or registered trademark of Biamp Systems, LLC in the United States and other countries. Other product names referenced may be trademarks or registered marks of their respective owners and Biamp Systems is not affiliated with or sponsored by these companies.