DATA SHEET MA240 240W MIXING AMPLIFIER



The MA240 is a 240W single channel mixing amplifier. Designed for ease of use, the front panel of the MA240 includes volume and microphone controls, providing immediate visual feedback regarding system operation. The MA240 is equipped with four priority levels for audio routing: one emergency input, one paging input, two mic/line inputs, and four stereo line, mono summed inputs. It's audio performance, ease-of-use, and versatile feature set makes the MA240 ideal for a variety of professional audio applications.

FEATURES

- Single channel; 240 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

- Two mic/line level inputs with 48V phantom power
- Four stereo inputs
- Fanless operation
- Internal universal power supply
- · Auto standby mode
- Rack mountable (2RU)
- 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 either contact closure or VOX level. The emergency input shall support user adjustable volume and VOX activation 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 2 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 and EQ via the rear panel. The mixing amplifier shall provide 4 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® MA240.



MA240 SPECIFICATIONS

INPUTS		OUTPUTS	
Number of Inputs		Number of Output Channel	s· 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):	2	Low Impedance Mode:	Yes
Stereo Line (unbalanced):	4	Priority Output Contact:	Yes
Input Priority Levels:	4	Minimum Operational Load:	4Ω
Priority Input Contact:	Yes	•	452
Chime:	Yes	Amplifier	
Tone Control:	Yes	Topology:	Class D
Wall Panel Controls:	Yes	RMS Output Power (1% THD	
VOX Mute:	Yes	Dynamic Power:	280 W
Music Level Control:	Yes	SNR (1% THD): THD+N (@ -6dB):	> 90 dB < 0.5%
		Protection:	Temperature, overcurrent,
Front Panel Indicators:	Signal present, clipping,	Protection.	overvoltage, undervoltage
	overload condition,		over voltage, under voltage
	mergency mode active,	Priority Output	
	ging active, VOX active	Voltage:	24V
Emergency Input		Max Current:	0.5A
Nominal Input Sensitivity:	0 dBV (1 Vrms)	Pre-Out	
THD+N (Pre-Out, @ -6dB):	< 0.5%	Nominal Output Level:	0 dBV
Frequency Response (-3dB):	45 Hz - 20 kHz	Standby	
Input Impedance:	5 kΩ	Wakeup Sensitivity:	
Paging Mic		Inputs 1-4:	-43 dBV (6 mVrms ± 10%)
Nominal Input Sensitivity (Bal. Mic):	-45 dBV (5.6 mVrms)	Mic A, B (RCA):	-50 dBV (5 mVrms ± 10%)
THD+N (Pre-Out, @ -6dB):	< 0.4%	Mic A, B (Balanced, VOX	off): -74 dBV (0.3 mVrms ± 10%)
Frequency Response (-3dB):		Time to Auto Standby:	10 min
Balanced Mic:	165 Hz - 20 kHz	Power Consumption (100-240	OVAC 50/60Hz)
Unbalanced, Balanced Line:	20 Hz - 20 kHz	Normal Operation:	320W
Gain:	-15 to +15 dB	Idle Operation:	15W
Chime Length:	2 sec 2 kΩ	Standby Mode:	0.5W
Input Impedance:	Z K22	Cooling:	Convection
Mic A, B		Cooling.	Convection
Nominal Input Sensitivity:		Overall Dimensions	
Balanced Mic:	-45 dBV (5.6 mVrms)	Height (without feet):	3.5 inches (89 mm)
Balanced Line:	-12 dBV (250 mVrms)	Width:	19 inches (483 mm)
Unbalanced Line:	-12 dBV (250 mVrms)	Depth:	11.8 inches (300 mm)
THD+N (Pre-Out, @ -6dB):	< 0.2%	Weight:	13.2 lbs (6.0 kg)
Frequency Response (-3dB): Balanced Mic:	165 Hz - 20 kHz	Environmental	
Unbalanced, Balanced Line:	20 Hz - 20 kHz	Ambient Operating	
Phantom Power (balanced only):	+48VDC (7mA/input)	Temperature Range:	32 - 95° F (0 - 35° C)
VOX Attenuation (Mic A, B, Inputs 1-4):	30 dB		relative humidity (non-condensing)
Input Impedance:	2 kΩ	Altitude:	0-6,600 ft (0-2000m) MSL
• •	2 102	Compliance	
Inputs 1-4	12 dB\/ (2E0 m\/~~~a\	-	FCC Part 15B (USA)
Nominal Input Sensitivity (Unbal. Line): THD+N (Pre-Out, @ -6dB):	-12 dBV (250 mVrms) < 0.1%		UL listed (USA and Canada)
Frequency Response (-3dB):	20 Hz - 20 kHz		CE Marked (Europe)
Input Impedance:	20 H2 - 20 kH2 10 kΩ		RoHS Directive (Europe)
mpat mipedance.	10 K22		



MA240 BACK PANEL



OPTIONAL ACCESSORIES



ALINPActive local input panel



D-ALINPActive local input panel (Decora® style)



MICPAT-DAll call paging microphone

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