

# DATA SHEET

## MA30

### 30W MIXING AMPLIFIER



The MA30 is a half-rack, 30W single channel mixing amplifier. Designed for ease of use, the front panel of the MA30 includes volume and microphone controls, providing immediate visual feedback regarding system operation. The MA30 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 MA30 ideal for a variety of professional audio applications.

#### FEATURES

- Single channel; 30 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 connections 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® MA30.

## MA30 SPECIFICATIONS

INPUTS		OUTPUTS	
<b>Number of Inputs</b>		<b>Number of Output Channels:</b>	1
<b>Emergency (line level with contact):</b>	1	<b>Output Connectors:</b>	4-pin, 0.3 inch (7.6 mm) Euroblock
<b>Paging Mic (mic level with contact):</b>	1	<b>70V/100V Mode:</b>	Yes
<b>Mic/Line (balanced):</b>	1	<b>Low Impedance Mode:</b>	Yes
<b>Stereo Line (unbalanced):</b>	2	<b>Priority Output Contact:</b>	Yes
<b>Input Priority Levels:</b>	4	<b>Minimum Operational Load:</b>	4Ω
<b>Priority Input Contact:</b>	Yes	<b>Amplifier</b>	
<b>Chime:</b>	Yes	<b>Topology:</b>	Class D
<b>Tone Control:</b>	Yes	<b>RMS Output Power (1% THD):</b>	30 W
<b>Wall Panel Controls:</b>	Yes	<b>Dynamic Power:</b>	35 W
<b>Music Level Control:</b>	Yes	<b>SNR (1% THD):</b>	> 90 dB
<b>Front Panel Indicators:</b>	Signal present, clipping, overload condition, emergency mode active, paging active, VOX active	<b>THD+N (@ -6dB):</b>	< 0.5%
<b>Emergency Input</b>		<b>Protection:</b>	Temperature, overcurrent, overvoltage, undervoltage
<b>Nominal Input Sensitivity:</b>	0 dBV (1 Vrms)	<b>Priority Output</b>	
<b>THD+N (Pre-Out, @ -6dB):</b>	< 0.5%	<b>Voltage:</b>	24V
<b>Frequency Response (-3dB):</b>	100 Hz - 20 kHz	<b>Max Current:</b>	0.5A
<b>Input Impedance:</b>	5 kΩ	<b>Pre-Out</b>	
<b>Paging Mic</b>		<b>Nominal Output Level:</b>	0 dBV
<b>Nominal Input Sensitivity (Bal. Mic):</b>	-45 dBV (5.6 mVrms)	<b>Standby</b>	
<b>THD+N (Pre-Out, @ -6dB):</b>	< 0.4%	<b>Wakeup Sensitivity:</b>	
<b>Frequency Response (-3dB):</b>		<b>Inputs 1-2:</b>	-44 dBV (6 mVrms ± 10%)
<b>Balanced Mic:</b>	165 Hz - 20 kHz	<b>Mic (RCA):</b>	-46 dBV (5 mVrms ± 10%)
<b>Unbalanced, Balanced Line:</b>	20 Hz - 20 kHz	<b>Mic (Balanced, VOX off):</b>	-70 dBV (0.3 mVrms ± 10%)
<b>Gain:</b>	-15 to +15 dB	<b>Time to Auto Standby:</b>	10 min
<b>Chime Length:</b>	2 sec	<b>Power Consumption (100-240VAC 50/60Hz)</b>	
<b>Input Impedance:</b>	2 kΩ	<b>Normal Operation:</b>	60W
<b>Mic</b>		<b>Idle Operation:</b>	4.5W
<b>Nominal Input Sensitivity:</b>		<b>Standby Mode:</b>	0.5W
<b>Balanced Mic:</b>	-45 dBV (5.6 mVrms)	<b>Fuse:</b>	1AL
<b>Balanced Line:</b>	-12 dBV (250 mVrms)	<b>Cooling:</b>	Convection
<b>Unbalanced Line:</b>	-12 dBV (250 mVrms)	<b>Overall Dimensions</b>	
<b>THD+N (Pre-Out, @ -6dB):</b>	< 0.2%	<b>Height (without feet):</b>	3.5 inches (89 mm)
<b>Frequency Response (-3dB):</b>		<b>Width:</b>	8.5 inches (216 mm)
<b>Balanced Mic:</b>	165 Hz - 20 kHz	<b>Depth:</b>	9.8 inches (250 mm)
<b>Unbalanced, Balanced Line:</b>	20 Hz - 20 kHz	<b>Weight:</b>	5.3 lbs (2.4 kg)
<b>Phantom Power (balanced only):</b>	+48VDC (7mA/input)	<b>Environmental</b>	
<b>VOX Attenuation (Mic, Inputs 1-2):</b>	30 dB	<b>Ambient Operating</b>	
<b>Input Impedance:</b>	2 kΩ	<b>Temperature Range:</b>	32 - 95° F (0 - 35° C)
<b>Inputs 1-2</b>		<b>Humidity:</b>	0-95% relative humidity (non-condensing)
<b>Nominal Input Sensitivity (Unbal. Line):</b>	-12 dBV (250 mVrms)	<b>Altitude:</b>	0-6,600 ft (0-2000m) MSL
<b>THD+N (Pre-Out, @ -6dB):</b>	< 0.1%	<b>Compliance</b>	
<b>Frequency Response (-3dB):</b>	20 Hz - 20 kHz		FCC Part 15B (USA)
<b>Input Impedance:</b>	10 kΩ		UL listed (USA and Canada)
			CE Marked (Europe)
			RoHS Directive (Europe)

## MA30 BACK PANEL



## OPTIONAL ACCESSORIES



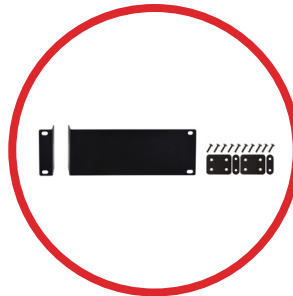
### ALINP

Active local input panel



### D-ALINP

Active local input panel  
(Decora® style)



### MA3060-19

Mounting kit



### MICPAT-D

All call paging microphone

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