

MA4000M

Energy-Efficient, 9-Input Mixer Featuring Multiple Input Connectivity and Diverse Signal Routing



Features

- Multi-function mixer designed for continuous operation in distributed music, paging and AV applications
- State-of-the-art, energy-saving Switch-Mode Power technology drastically reduces energy cost
- 8 Mic/Line inputs on Euroblock, XLR/TRS and RCA connectors, each with switchable Mic/Line and Phantom Power, individual Trim control and post-trim input level LED
- Inputs 1-8 individually assignable to Zone 2/MOH output; Aux inputs 5-8 individually assignable to Main Mix
- Dedicated page input accepts telephone or paging microphone and features priority muting across all inputs
- Wired Remote volume, power and mute control connector
- Individual front panel input Level plus Lo and Hi Main EQ controls
- Auto-dimming control illumination, dual channel VU meter, Power switch, and dual-function indicator ring surrounding Master volume control
- Main Mix 1 & 2 outputs on balanced Euroblock connectors
- Recording output and Zone 2/MOH assignable output with independent gain control
- Detachable rack ears, screw covers, blank knob caps for control lock-out, IEC-type AC power cord and all mating Euroblock connectors included
- Independent DC and thermal overload protection plus automatic limiters for each amplifier prevent overload, clipping and distortion without shutting down audio
- Ultra-light, ultra-low noise and ultra-efficient switch-mode power supply for noise-free audio, superior transient response and low power consumption
- High-quality components and exceptionally rugged construction ensure long life

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Product Overview

The EUROCOM MA4000M professional mixer offers extraordinary flexibility and ease-of-use in a rack-mountable system that is ideal for commercial installation applications such as restaurants, bars, stores, sports clubs, spas, and houses of worship. Designed for easy operation by non-technical personnel, the MA4000M combines a clear, intuitive front panel with back-panel controls that allow the installer tremendous flexibility in customizing the mixer to the needs of each individual installation.

The MA4000M includes eight source-switchable channels for balanced or unbalanced input from line-level sources or microphones, either standard or phantom powered. All channels accept input via Euroblock connectors (six 3-pin and two 4-pin with mute terminals) and have both a signal LED and a level trim. Inputs 1-4 also have XLR/TRS (¼-inch) combination jacks, while inputs 5-8 each have a pair of RCA jacks, summed internally to mono, for sources such as CD/MP3 players, cable boxes, and radio/TV tuners. A 4-pin Euroblock connector provides an additional input for telephone paging, and a 5-pin Euroblock allows connection of a remote control.

Outputs, all mono, include two main mix outs on 3-pin Euroblocks and two feeds that are each split to a pair of RCA jacks, one a recording feed (pre-master main mix) and one a Zone 2/Music on Hold mix that may be used to feed a supplemental sound reinforcement system. The Z2/MOH mix includes only input channels assigned via back-panel Z2/MOH DIP switches. DIP switches also determine whether the main mix outs are line or mic level, enable inputs 5-8 in the main mix, and select the paging input. Trim pots are provided to adjust the Zone 2/MOH output level, the paging input level, and mute depth, which determines the degree of attenuation during automatic ducking of background audio.

Front-panel controls include rotary faders for input levels as well as high and low EQ to optimize the sound for any environment. The front-panel master volume knob is surrounded by an indicator ring that glows yellow when the unit is powered and flashes red at the onset of clipping. A VU meter is provided to indicate output signal level.

Combining exceptionally flexible signal routing with all key functions for rack-mounted mixing and paging, the MA4000M is at once remarkably versatile and easy to use, making it an outstanding value for a wide variety of commercial installations in hospitality, retail, leisure, and business settings.

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Technical Specifications

Audio Inputs

Mic / Line inputs 1 & 2

- Type 2 x XLR / ¼" TRS combo jacks
2 x 4-pin Euroblock in parallel
- Impedance Mic: -50 to 0 dBV, 600 Ω
Line: -27 to 0 dBV, 600 Ω
Electronically balanced

Mic / Line inputs 3 & 4

- Type 2 x XLR / ¼" TRS combo jacks
2 x 3-pin Euroblock in parallel
- Impedance Mic: -50 to 0 dBV, 600 Ω
Line: -27 to 0 dBV, 600 Ω
Electronically balanced

Inputs 5 - 8

- Type 4 x 3-pin Euroblock,
electronically balanced
- Impedance Mic: -50 to 0 dBV, 600 Ω
Line: -27 to 0 dBV, 600 Ω

Auxiliary

- Type 4 x RCA stereo summed
- Impedance Line: -10 dBV, 10 kΩ, unbalanced

Tel / Page input

- Impedance 1 x 4-pin Euroblock
Mic: -50 to 0 dBV, 600 Ω
Line: -27 to 0 dBV, 600 Ω

Phantom power

24 VDC, switchable
Inputs 1– 8 and Tel / Page

Audio Outputs

Main mix outputs 1 & 2

- Impedance 2 x 3-pin male Euroblock,
Mic/Line switchable
Mic: -40 dBV, 1 kΩ
Line: 0 dBV, 600 Ω
Electronically balanced

Z2 / Mon output

- Impedance 1 x dual RCA jack
0 dBV, 600 Ω, unbalanced

Record output

- Impedance 1 x dual RCA jack
0 dBV, 600 Ω, unbalanced

System Information

- Dynamic range Mic: 65 dB
Line: 80 dB
- THD+N 0.5% @ 1 kHz, rated output
- Frequency response 50 Hz - 18 kHz, ±2 dB
- Tone controls Low: ±12 dB @ 100 Hz
High: ±12 dB @ 10 kHz

Control Connections

- Remote 1 x 5-pin Euroblock connector
- Volume 10 kΩ linear-taper potentiometer
- Power +5 VDC voltage make contact
input; no open voltage
- Mute No-voltage make contact input;
open voltage 5 VDC
Short circuit: < 10 mA
- DC power +5 VDC, 100 mA Current limited,
short-circuit protected

Tel / Page

- Mute 1 x 4-pin Euroblock, 1 terminal
No-voltage make contact input;
open voltage 24 VDC
Short circuit: < 10 mA

Inputs 1 & 2

- Mute 2 x 4-pin Euroblock, 1 terminal each
No-voltage make contact input;
open voltage 24 VDC
Short circuit: < 10 mA

Indicators

- Power LED ring illumination (Yellow)
- Overload / protection LED ring indication (Red)
- Output level LED VU output meter
(Yellow and Red while clipping)

Power Supply (Fuses)

- Mains voltage 100-240 VAC, 60/50 Hz
- Fuse T 1 AH 250 V
- Power consumption 26 W
- Mains connector Standard IEC receptacle

Dimensions / Weight

- Dimensions (H x W x D) 3.5 x 17 x 16" / 88 x 432 x 406 mm
- Weight 10.2 lbs / 4.6 kg

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Architect's and Engineer's Specifications

The mixer shall be of rack-mountable design with built-in paging functions, eight mic/line inputs, a telephone paging input, and field-configurable routing options feeding multiple outputs.

Controls and indicators shall include the following:

- Power switch to turn the unit on and off
- Power Indicator displaying amber logo when unit is powered
- Master Volume knob for setting overall volume
- Indicator ring for power (yellow) and clipping (flashing red)
- VU meter to indicate amplifier signal level
- HI EQ/LO EQ knobs to adjust the overall treble and bass
- Input level knobs (1-8) to set the relative level of each input
- Phantom/Mic/Line switch (8) to select mode of each input channel
- Signal LED (8) for each input to indicate presence of signal
- Gain screw pot (8) for each input to trim input gain
- Z2/MOH DIP switches (8) to assign inputs to the Z2/MOH output
- Function DIP switches (8) to assign inputs 5-8, set level (line or mic) for main mix outs, and set the page input (line, mic, or phantom-power mic)
- Page input screw pot to adjust paging input level
- Mute depth screw pot to set ducking of aux inputs during pages
- Z2/MOH output screw pot to adjust the level of the Z2/MOG feed

Connections to the mixer shall include:

- Mic/Line inputs on four XLR/TRS (¼-inch) combination jacks, six 3-pin Euroblock connectors, and two 4-pin Euroblock connectors with mute terminal
- Aux inputs on four pairs of unbalanced line-level RCA jacks, each summed to mono
- Tel/Page input on a 4-pin Euroblock connector
- Main mix outputs (2) on 3-pin Euroblock connectors
- Z2/MOH line-level output on a pair of RCA jacks
- Record line-level output on a pair of RCA jacks
- Remote control input on 5-pin Euroblock connector
- AC power on IEC receptacle

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Architect's and Engineer's Specifications Continued

Performance criteria for the mixer shall be:

- Dynamic range of 65 dB for Mic and 80 dB for Line
- Distortion (THD+N, 1 kHz) of 0.5% at rated output
- Frequency Response of 50 Hz-18 kHz, ± 2 dB

AC Power requirements of the mixer shall be:

- Mains voltage of 115 ~ 240 VAC, at 50/60Hz
- Power consumption of 13 W

Physical characteristics of the mixer shall be:

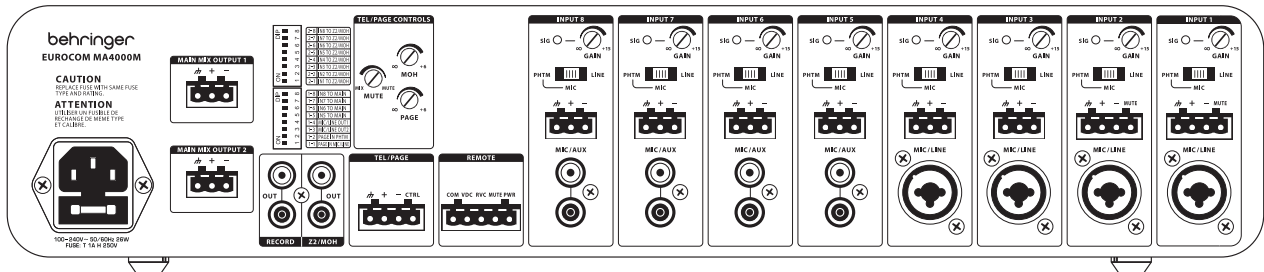
- Height x Width x Depth of 3.5 x 17 x 16" / 88 x 432 x 406 mm
- Net weight of 10.2 lbs / 4.6 kg

The mixer shall be the BEHRINGER EUROCOM MA4000M.

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Dimensional Drawings:



REAR

449.58 mm [17.7 in]

444.5 mm [17.5 in]

302.26 mm [11.9 in]

350.05 mm [11.9 in]

483.87 mm [19.0 in]

TOP

88.9 mm [3.5 in]

96.63 mm [3.8 in]

FRONT

SIDE

88.9 mm [3.5 in]

96.63 mm [3.8 in]