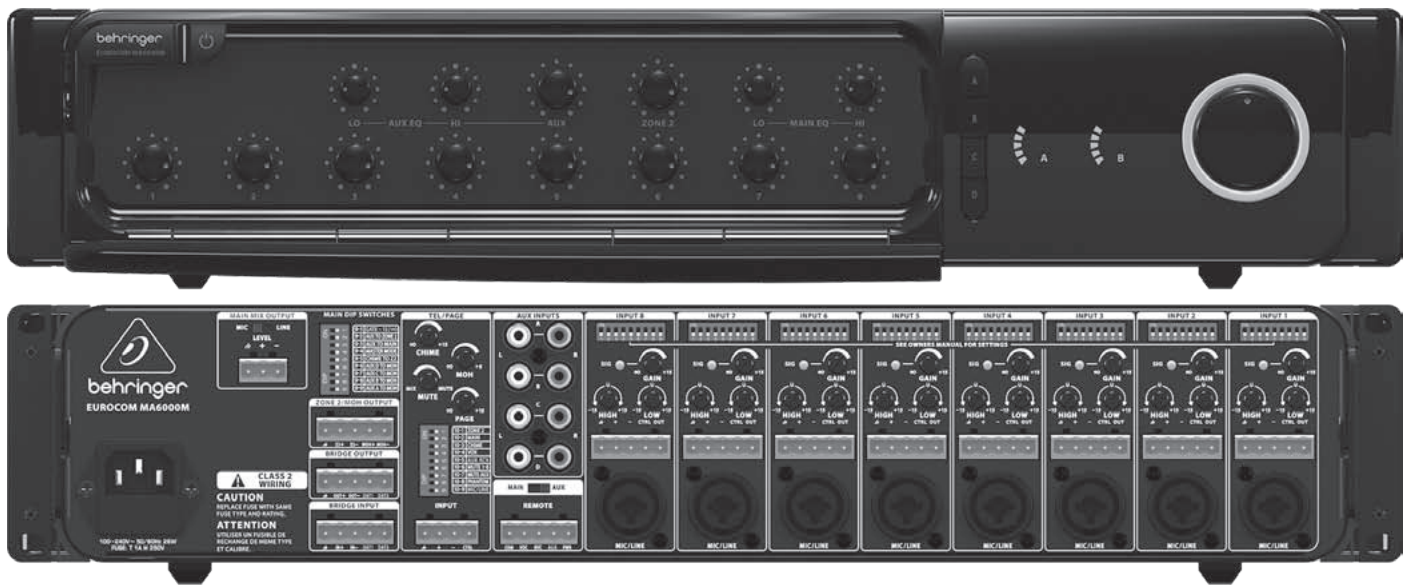


MA6000M

Energy-Efficient, 13-Input Expandable Mixer Featuring Auto-Mixing and Multiple Input Connectivity



Features

- Multi-function auto-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 XLR/TRS and Euroblock connectors, each with Lo and Hi frequency EQ, individual Trim control and post-trim input level LED
- Switchable Mic/Line, Phantom power, Main Mix and/or Zone 2 output, Mute Send/RCV, Remote Volume control, Chime, and Auto-mixing on each input
- 4 pair summed RCA Aux inputs are assignable to the Main Mix, Zone 2, and/or MOH
- Multi-featured, dedicated page input with assignable Chime, switchable Mic/Line and Phantom power
- Wired Remote volume, power control and aux channel selection plus remote volume assign switch
- Individual front panel input Level, Lo and Hi Main and Aux EQ, Aux input and Zone 2 Volume controls
- Auto-dimming control illumination, dual channel VU meter, Power switch, and dual-function indicator ring surrounding Master volume control
- 4 front panel buttons select which four rear-panel Aux inputs are active and feeding the Main mix bus at any given time
- Main Mix output on balanced Euroblock connector featuring switchable Mic/Line level
- Zone 2/MOH assignable output with independent gain control
- Dual bridging input/output connectors allow multiple units to be interconnected
- 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 MA6000M professional mixer offers extraordinary versatility and ease-of-use in a rack-mountable system that is ideal for medium-complexity commercial sound in facilities such as meeting rooms, conference rooms, presentation facilities, houses of worship, restaurants, clubs, and similar applications involving foreground music and paging. Designed for easy operation by non-technical personnel, the MA6000M 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 MA6000M includes eight main channels for balanced or unbalanced input from line-level sources or microphones, either standard or phantom powered. All channels accept input via both 5-pin Euroblock connectors (with control and direct-out pins) and XLR/TRS (¼-inch) combination jacks. All main inputs are equipped with a signal LED, gain trim, and high and low EQ. A set of nine DIP switches on each channel assign the channel to main and/or Zone 2 buses, set mic/line input, turn phantom power on/off, set mute send/receive for channel muting, and enable remote volume control, auto-mixing, and chime activation for the channel. The level of each channel in the main mix is set with individual front-panel level controls.

Four additional auxiliary input channels, each with a pair of RCA jacks that are summed internally to mono, are provided for playback from external sources such as CD/MP3 players, cable boxes, and radio/TV tuners. A set of four front-panel buttons determine which aux input is currently sent to the main mix. Front panel controls are also provided for the level and the high/low EQ of the aux input.

A 4-pin Euroblock connector provides an additional input (600 Ω, mic or line) for a telephone paging system. MA6000M telephone/paging functions, configured via Tel/Page DIP switches, include assignable muting (signal, switch, or contact closure activated), an assignable chime, and assignment of any aux input to a Music on Hold (MOH) bus. Controls are provided for the level of the paging send to the main mix, the amount of ducking during pages, the volume of the paging chime, and the level of the Music on Hold feed.

MA6000M outputs, all mono, include two main-mix outs (switchable line or mic level) on 3-pin Euroblocks and both Zone 2 and MOH outputs combined onto a single 5-pin Euroblock connector. The MOH out is fed from the main mix bus, while inputs to the Zone 2 mix, which may be fed to an external recorder or supplemental PA system, are assigned independently of the main mix. Each output has a level control, and neither is affected by master volume or EQ settings.

Additional MA6000M connections include a 5-pin Euroblock for remote control, switchable between the main mix and the aux bus. Also on 5-pin Euroblock connectors are Bridge In and Bridge Out, which allow multiple MA6000 series units to be bridged under the control of one master unit. The master is determined by a setting on each unit's Master DIP switches, which also include settings for routing the aux inputs, the aux bus, and the chime.

In addition to the controls described above, the MA6000M front panel includes a master level (main mix) knob—surrounded by an indicator ring that glows yellow when the unit is powered and flashes red at the onset of clipping—as well as high and low EQ to optimize the main mix sound for any environment. Also included are a pair of LED meters that indicate Main Mix and Zone 2 output levels.

Combining powerful features and exceptional configurability with a streamlined interface that is ideal for non-technical users, the EUROCOM MA6000M mixer provides outstanding value and functionality for installed sound applications in a wide variety of commercial installations.

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Technical Specifications

Audio Inputs

Mic / Line inputs 1 & 2

- Type 2 x XLR / ¼" TRS combo jacks
2 x 5-pin Euroblock in parallel
- Impedance Mic: -50 to 0 dBV, 600 Ω
Line: -27 to 0 dBV, 600 Ω
Electronically balanced

Inputs 3 – 8

- Type 6 x XLR / ¼" TRS combo jacks
6 x 5-pin Euroblock in parallel
- Impedance Mic: -50 to 0 dBV, 600 Ω
Line: -27 to 0 dBV, 600 Ω
Electronically balanced

Auxiliary inputs

- Impedance 4 x RCA stereo summed
-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

- Impedance 1 x 3-pin male Euroblock,
Mic/Line switchable
Mic: -36 dBV, 1 kΩ
Line: +4 dBV, 600 Ω
Electronically balanced

Direct out 1 – 8

- Impedance 8 x 5-pin Euroblock
0 dBV, 600 Ω, unbalanced

Z2 / MOH output

- Impedance 1 x 5-pin Euroblock
Z2: +4 dBV, 600 Ω, balanced
MOH: 0 dBV, 600 Ω, balanced

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

Master: Low: ±10 dB @ 100 Hz
High: ±10 dB @ 12 kHz
Input 1-8: Low: ±15 dB @ 100 Hz
High: ±15 dB @ 12 kHz
Aux: Low: ±10 dB @ 100 Hz
High: ±10 dB @ 12 kHz

Control Connections

Remote

- Common 1 x 5-pin Euroblock connector
-5 VDC, 100 mA current,
short-circuit protected
- Remote power +5 VDC, 100 mA current limited,
short-circuit protected

RVC

- Aux input select 10 kΩ linear-taper potentiometer
Used in conjunction with wall remote
to select aux input feeding main mix
- Unit power on/off +5 VDC voltage make contact input,
no open voltage

Tel / Page

- Control 1 x 5-pin Euroblock, 1 terminal
No-voltage make contact input;
open voltage 5 VDC
Short circuit: < 10 mA

Inputs 1-8

- Control No-voltage make contact input;
open voltage 5 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, 60/50Hz
- Power Consumption 26 W
- Fuse T 1 AH 250 V
- 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 11.0 lbs / 5 kg

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Energy-Efficient, 13-Input Expandable Mixer Featuring Auto-Mixing and Multiple Input Connectivity

Architect's and Engineer's Specifications

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

Front-panel controls and indicators shall include the following:

- Power button (latching) turns the unit on and off
- Master Level knob sets output level to power amps
- Indicator ring shows power (yellow) and clipping (flashing red)
- Master level LED meters indicate level of main out signal
- Master HI EQ/LO EQ knobs adjust treble/bass of the main mix
- Input level knobs set the level of inputs 1-8 in the main mix
- Aux selector buttons select which aux input feeds the main mix
- Aux level knob sets the level of the selected aux input into the mix
- Aux HI EQ/LO EQ knobs adjust treble/bass on aux bus

General rear-panel controls and indicators shall include:

- Main out level switch mic or line for the main mix output signal
- Remote volume assign switch assigns remote volume control to main or aux mix
- Master DIP switches enable master control of bridged units and route aux inputs and chime

Input rear-panel controls and indicators shall include:

- Signal LED indicates signal at each input channel (1-8)
- Trim knob adjusts input gain for each input channel (1-8)
- Channel HI EQ knobs adjust treble on each input channel (1-8)
- Channel LO EQ knobs adjust bass on each input channel (1-8)
- Channel input DIP switches enable channel output to main and Zone 2 buses, and set options for mic/line, phantom on/off, mute send/receive, remote volume, auto-mixing, and chime
- Aux level knob sets the level of aux inputs 1-4 into the mix

Zone 2/MOH rear-panel controls and indicators shall include:

- Zone 2 output level pot adjusts the level of the Zone 2 feed
- MOH level knob adjusts the level of the Music on Hold feed

Tel/Page rear-panel controls and indicators shall include:

- Tel/Page DIP switches set page options for chime and overrides
- Tel/Page input knob adjusts paging level sent to the main mix
- Mute level knob sets the amount of ducking during pages
- Chime Level knob adjusts the volume of the paging chime

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Energy-Efficient, 13-Input Expandable Mixer Featuring Auto-Mixing and Multiple Input Connectivity

Architect's and Engineer's Specifications Continued

Connections to the mixer-amplifier shall include:

- Mic/Line inputs on eight XLR/TRS (¼-inch) combination jacks and eight 5-pin Euroblock connectors with control and direct-out pins
- Aux inputs on four pairs of unbalanced line-level RCA jacks, each summed to mono
- Tel/Page input (600 Ω, mic or line) on a 4-pin Euroblock connector
- Main mix output on 3-pin Euroblock connector
- Zone 2/MOH output on 5-pin Euroblock connector
- Remote control input on 5-pin Euroblock connector
- Bridge In/Bridge Out on one 5-pin Euroblock connector each
- AC power on IEC jack

Performance criteria met by the mixer-amplifier shall include:

- Frequency Response of 20 Hz - 20 kHz (±2 dB)
- Distortion (THD, 1 kHz) of 0.5% at rated output
- Dynamic range of 65 dB for Mic and 80 dB for Line and Tel/Page

AC Power requirements of the mixer-amplifier shall be:

- Mains voltage of 100--240 VAC (switchable), at 50/60Hz

Physical characteristics of the mixer-amplifier shall be:

- Height x Width x Depth of 3.5 x 17 x 16" / 88 x 432 x 406 mm
- Net weight of 11.0 lbs / 5 kg

The mixer shall be the BEHRINGER EUROCOM MA6000M.

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Dimensional Drawings:

