

# PLE-1MExxx-2IN Plena Mixer Amplifier

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ 4 microphone / line inputs, plus music source input
- ▶ 3 models in a wide range of output power (60, 120 and 240 Watts)
- ▶ 2-tone chime
- ▶ Insert feature to use as a pre/power amplifier
- ▶ VU meter to indicate output level; Limiter circuit for protection

The Plena Economy mixer amplifiers are professional public address units with modern state-of-the-art features.

They are easy to use, taking the complexity away from the user and putting it where it belongs, inside the equipment. Providing a crisp call or clear music is as easy as turning on a radio.

Offering the essentials of public address in an affordable package.

## System overview

The range consists of three mixer amplifiers. The mixer amplifiers are available in 60, 120, and 240 Watts. These will have four mic/line inputs, 1 BGM and operates in a single zone. It has a limiter circuit and provides an insert feature to use it as an amplifier. The VU meter gives an output level indication.

## Functions



Rear view



Front view

### Power

The mixer amplifiers come in 60, 120 and 240 Watt output power. This power is directly available on 100 V constant voltage connections and on a low impedance connection for a 4 ohm load. Moreover, the amplifiers have a separate 100 V call-only output channel for addressing areas where only priority announcements are required. The call-only output can also be used for 3-wire remote, volume control override.

### Inputs

All Mic/line inputs can be switched between microphone level and line level sensitivity. The inputs are balanced, but can be used unbalanced. Phantom power can be switched on to provide power to condenser microphones.

Input channel 1 can take priority over all other microphone and music inputs:

- Input 1 can be activated by contact closure on the PTT (push to talk). A 2-tone chime can be configured to precede an announcement.

### Music input

A separate music input is available with its volume control.

### Personalized settings

More unique features are available such as a detachable label where the user can write the names for inputs. This label can then be mounted on the front, protected by the clear window.

Another useful feature is to indicate preferred settings on the front panel by inserting colored pins at the preset levels of all knobs. You can then instruct a user to set all the controls to the silver pins to configure the system for their particular use. A second user can set all controls to the red pins for their configuration.

### Output status

A LED VU meter monitors the master output. A headphone socket, below the VU meter, provides the mixer output. For total reliability and ease of use, a limiter is integrated into the output stage to restrict output if the user applies too much signal.

### Output status

An LED VU meter provides output indication. A headphone socket, below the VU meter, provides the mixer output. For total reliability and ease of use, a limiter is integrated into the output stage to restrict output if the user applies excess signal.

### Controls and indicators

#### Front

- On/off switch
- Power on LED with On/off switch
- LED VU meter for master output (LEDs for -18, -12 -6, -3, 0 dB)
- Master volume knob
- Four volume knobs for microphone inputs
- Volume knob for background music
- Knob for treble level
- Knob for bass level
- Headphone socket

#### Back

- Dip switches

### Certifications and approvals

Safety	acc. to IEC 60065
EMC emission	acc. to EN 55032-1
EMC immunity	acc. to EN 55103-2

### Parts included

Quantity	Components
1	Mixer Amplifier
1	Power cord
1	Instructions Manual

### Technical specifications

Electrical	
Mains power supply	230 VAC $\pm$ 10%, 50 Hz (reduced power at lower mains)
Inrush current PLE-1ME060-IN	5 A
Inrush current PLE-1ME120-IN	20 A
Inrush current PLE-1ME240-IN	20 A
Power consumption	
PLE-1ME060-IN	200 VA
PLE-1ME120-IN	400 VA
PLE-1ME240-IN	760 VA

Performance	
Frequency response (Line)	80 Hz to 18 kHz (+1/-3 dB @ -10 dB ref. rated output)
Frequency response (Mic.)	80 Hz to 18 kHz (+1/-3 dB @ -10 dB ref. rated output)
Distortion	<1% @ rated output power, 1 kHz
Bass Control	Max. ± 8 dB
Treble Control	Max. ± 8 dB
Mic./Line input	
Mic./Line input	4 x
Input 1 (push-to-talk contact with priority)	5-pin Euro style, balanced, phantom
Input 2	3-pin XLR female, balanced, phantom
Input 3 and 4	TRS Jack (1/4, 6.35 mm) balanced
Sensitivity	1 mV (mic.); 200 to 300 mV (line)
Impedance	>1 kOhm (mic.); >5 kOhm (line)
Loudspeaker output	
	<b>4 ohm</b> <b>100 V</b>
PLE-1ME060-IN	15.5 V (60 W)      60 W
PLE-1ME120-IN	22 V (120 W)      120 W
PLE-1ME240-IN	31 V (240 W)      240 W
Loop through insert	
Connector	RCA Cinch
Sensitivity	1 V
Impedance	>10 kOhm
Mechanical	
Dimensions (H x W x D)	100 x 430 x 270 mm (19" wide, 2U high)
Mounting	Stand-alone, 19" rack
Color	Charcoal
Weight	
PLE-1ME060-IN	Approx. 6.5 kg
PLE-1ME120-IN	Approx. 8.9 kg
PLE-1ME240-IN	Approx. 10.5 kg

## Environmental

Operating temperature	-5 °C to +45 °C
Storage and transport temperature	-40 °C to +70 °C
Relative humidity	<95%

## Ordering information

### PLE-1ME060-2IN Plena 60 Watt Mixer Amplifier

Mixer amplifier, 60 W, 4 microphones and background music (BGM) input.

Order number **PLE-1ME060-2IN**

### PLE-1ME120-2IN Plena 120 Watt Mixer Amplifier

Mixer amplifier, 120 W, 4 microphones and background music (BGM) input.

Order number **PLE-1ME120-2IN**

### PLE-1ME240-2IN Plena 240 Watt Mixer Amplifier

Mixer amplifier, 240 W, 4 microphones and background music (BGM) input.

Order number **PLE-1ME240-2IN**

**Represented by:**

**Americas:**

Bosch Security Systems, Inc.  
12000 Portland Avenue South  
Burnsville MN 55337, USA  
Phone: +1-800-392-3497  
Fax: +1-800-955-6831  
audiosupport@us.bosch.com  
www.boschsecurity.com

**Europe, Middle East, Africa:**

Bosch Security Systems B.V.  
P.O. Box 80002  
5617 BA Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

**Asia-Pacific:**

Robert Bosch (SEA) Pte Ltd, Security  
Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

**China:**

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

**America Latina:**

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com