

PLE-1MExx0-xx Plena Mixer Amplifier



- ▶ 4 microphone / line inputs, plus music source input
- ► Announcement only output, 3-wire volume override
- ▶ Wide range of output power (60, 120 and 240 Watts)
- 2-tone chime

These 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 the radio. Offering the essentials of public address in an affordable package.

Functions



Microphone and line 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.

Power

The mixer amplifiers come in 60, 120 and 240 Watt output power. This power is directly available on 100 V (70 V for US versions) constant voltage connections and on a low impedance connection for a 4 ohm load. Moreover, the amplifiers have a separate 100 V (70 V for US versions) 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.

Output status

An 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.

Controls and indicators

Front

- On/off switch
- Power on LED
- 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 EN 60065
EMC emission	acc. to EN 55103-1
EMC immunity	acc. to EN 55103-2

Parts Included

Quantity	Components
1	PLE-1MExx0-xx Plena Mixer Amplifier
1	Power cord
1	Manual
1	Plena Easy Line CD

Technical Specifications

Electrical

Mains power supply

Mains power suppry	
Voltage -EU versions	230 VAC ±10%, 50/60 Hz (reduced power at lower mains voltage)
Voltage -CN versions	220 VAC ±10%, 50/60 Hz (reduced power at lower mains voltage)
Voltage -US versions	120 VAC ±10%, 50/60 Hz (reduced power at lower mains voltage)
Inrush current PLE-1ME060-EU or -CN	5 A
Inrush current PLE-1ME120-EU or -CN	10 A

Mains	power	supi	olv

Inrush current PLE-1ME240-EU or -CN	12 A
Inrush current PLE-1ME060-US	10 A
Inrush current PLE-1ME120-US	20 A
Inrush current PLE-1ME240-US	24 A

Power consumption

PLE-1ME060-xx	200 VA	
PLE-1ME120-xx	400 VA	
PLE-1ME240-xx	800 VA	

Performance

Frequency response (Line)	60 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)
Frequency response (Mic.)	70 Hz to 20 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

ic./Line input 4 x

Mic./Line input	4 x
Input 1 (push-to-talk contact with priority)	5-pin Euro style, balanced, phantom
Input 2	3-pin Euro style, balanced, phantom
Input 3 and 4	TRS Jack (1/4, 6.3mm) balanced
Sensitivity	1 mV (mic.); 300 mV (line)
Impedance	>1 kohm (mic.); >5 kohm (line)
Dynamic range	93 dB
S/N (flat at max volume)	>63 dB (mic.); >70 dB (line)
S/N (flat at min volume/muted)	>75 dB
CMRR (mic.)	>40 dB (50 Hz to 20 kHz)
Headroom	>25 dB
Speech filter	-3 dB @ 315 Hz, high-pass, 6 dB/oct
Phantom power supply	16 V via 1.2 kohm (mic.)

Music input

Connector	Cinch, stereo converted to mono
Sensitivity	200 mV
Impedance	22 kohm
S/N (flat at max volume)	>75 dB
S/N (flat at min volume/muted)	>80 dB
Headroom	>25 dB

Loudspeaker output

Connector	Screw terminal, floating
Max / rated PLE-1ME060-xx	90 W / 60 W
Max / rated PLE-1ME120-xx	180 W / 120 W
Max / rated PLE-1ME240-xx	360 W / 240 W

Loudspeaker output 4 ohm	
Connector	Screw terminal, floating
PLE-1ME060-xx	15.5 V (60 W)
PLE-1ME120-xx	22 V (120 W)
PLE-1ME240-xx	31 V (240 W)
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-xx	Approx. 6.5 kg
PLE-1ME120-xx	Approx. 8.9 kg
PLE-1ME240-xx	Approx. 10.5 kg
Environmental	
Operating temperature	-10 °C to +45 °C
Storage temperature	-40 °C to +70 °C

<95%

<48 dB SPL @ 1 m

Relative humidity

(PLE-1ME240-xx)

Acoustic noise level of fan

Ordering Information	
PLE-1ME060-EU Plena Mixer Amplifier 60 W, 4-mic. and BGM input mixer amplifier	PLE-1ME060-EU
PLE-1ME120-EU Plena Mixer Amplifier 120 W, 4-mic. and BGM input mixer amplifier	PLE-1ME120-EU
PLE-1ME240-EU Plena Mixer Amplifier 240 W, 4-mic. and BGM input mixer amplifier	PLE-1ME240-EU
PLE-1ME060-US Plena Mixer Amplifier US version, 60 W	PLE-1ME060-US
PLE-1ME120-US Plena Mixer Amplifier US version, 120 W	PLE-1ME120-US
PLE-1ME240-US Plena Mixer Amplifier US version, 240 W	PLE-1ME240-US
PLE-1ME060-CN Plena Mixer Amplifier China version, 60 W	PLE-1ME060-CN
PLE-1ME120-CN Plena Mixer Amplifier China version, 120 W	PLE-1ME120-CN
PLE-1ME240-CN Plena Mixer Amplifier China version, 240 W	PLE-1ME240-CN

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