# PLE-1MExx0-xx Plena Mixer Amplifier

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

| 10 A   |
|--|
| 12 A   |
| 10 A   |
| 20 A   |
| 24 A   |
|  |
| 200 VA   |
| 400 VA   |
| 800 VA   |
|  |
| 60 Hz to 20 kHz (+1/-3 dB @<br>-10 dB ref. rated output) |
| 70 Hz to 20 kHz (+1/-3 dB @<br>-10 dB ref. rated output) |
| <1% @ rated output power, 1 kHz                          |
| Max. ± 8 dB  |
| Max. ± 8 dB  |
| 4 x  |
| 5-pin Euro style, balanced,<br>phantom                   |
| 3-pin Euro style, balanced, phantom                      |
| TRS Jack (1/4, 6.3mm) balanced                           |
| 1 mV (mic.); 300 mV (line)                               |
| >1 kohm (mic.); >5 kohm (line)                           |
| 93 dB  |
| >63 dB (mic.); >70 dB (line)                             |
| >75 dB   |
| >40 dB (50 Hz to 20 kHz)                                 |
| >25 dB   |
| -3 dB @ 315 Hz, high-pass,<br>6 dB/oct                   |
| 16 V via 1.2 kohm (mic.)                                 |
|  |
| Cinch, stereo converted to mono                          |
| Cilicii, stereo converted to mono                        |
| 200 mV   |
|  |
|  |

#### 3 | PLE-1MExx0-xx Plena Mixer Amplifier

| 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<br>(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 |
| Relative humidity                           | <95%             |
| Acoustic noise level of fan (PLE-1ME240-xx) | <48 dB SPL @ 1 m |

#### **Ordering Information**

### PLE-1ME060-EU Plena Mixer Amplifier

60 W, 4-mic. and BGM input mixer amplifier Order number **PLE-1ME060-EU** 

#### PLE-1ME120-EU Plena Mixer Amplifier

120 W, 4-mic. and BGM input mixer amplifier Order number **PLE-1ME120-EU** 

#### PLE-1ME240-EU Plena Mixer Amplifier

240 W, 4-mic. and BGM input mixer amplifier Order number **PLE-1ME240-EU** 

#### PLE-1ME060-US Plena Mixer Amplifier

US version, 60 W Order number **PLE-1ME060-US** 

#### PLE-1ME120-US Plena Mixer Amplifier

US version, 120 W Order number **PLE-1ME120-US** 

#### PLE-1ME240-US Plena Mixer Amplifier

US version, 240 W Order number **PLE-1ME240-US** 

#### PLE-1ME060-CN Plena Mixer Amplifier

China version, 60 W
Order number PLE-1ME060-CN

#### PLE-1ME120-CN Plena Mixer Amplifier

China version, 120 W Order number **PLE-1ME120-CN** 

#### PLE-1ME240-CN Plena Mixer Amplifier

China version, 240 W
Order number **PLE-1ME240-CN** 

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