

PLE-1MAxx0-EU Plena Mixer Amplifier

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Advantage Line

These Plena mixer amplifiers are high performance, 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.

The amplifier is also surprisingly affordable, without sacrificing features such as ducking, priority and flexibility.

Features

- ▶ 4 microphone/line inputs, plus 3 music source inputs
- ▶ 100 V and telephone input with priority & VOX
- ▶ Announcement only output, 3-wire volume override
- ▶ Voice-activated emergency override
- ▶ Wide range of power (30, 60 and 120 Watts)

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Technical specifications

Electrical	
Mains power supply	
Voltage	230 VAC $\pm$ 10%, 50/60 Hz (reduced power at lower mains or battery voltage)
Inrush current PLE-1MA030-EU	4.5 A
Inrush current PLE-1MA060-EU	5 A
Inrush current PLE-1MA120-EU	10 A
Power consumption	
PLE-1MA030-EU	100 VA
PLE-1MA060-EU	200 VA
PLE-1MA120-EU	400 VA
Performance	
Frequency response	50 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)
Distortion	<1% @ rated output power, 1 kHz
Bass Control	Max -12/+12 dB (frequency is setting dependent)
Treble Control	Max -12/+12 dB (frequency is setting dependent)
RJ-45 input	
	1 x
Wall panel input	For PLE-WP3S2Z
Mic/Line input	
	4 x
Input 1 (Push-to-talk contact with ducking functionality)	5-pin Euro style, balanced, phantom 3-pin XLR, balanced, phantom
Input 2-4 (VOX with ducking functionality on input 2)	3-pin XLR, balanced, phantom
Sensitivity	1 mV (mic); 1 V (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	>17 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	300 mV
Impedance	22 kohm
S/N (flat at max volume)	>70 dB
S/N (flat at min volume/muted)	>75 dB
Headroom	>25 dB
Emergency / telephone	
	1 x
Connector	7-pin Euro style pluggable screw connector
Sensitivity Tel	1 V maximum
Sensitivity 100V	100 V maximum
Impedance	>10 kohm
S/N (flat at max volume)	>65 dB
VOX	threshold 50 mV; attack time 150 ms; release time 2 s
Master/music output	
	1 x
Connector	3-pin XLR, balanced
Nominal level	1 V
Impedance	<100 ohm
Loudspeaker output 100V	
Connector	Euro style pluggable screw terminal, floating

Max / rated PLE-1MA030	45 W / 30 W
Max / rated PLE-1MA060	90 W / 60 W
Max / rated PLE-1MA120	180 W / 120 W
Loudspeaker output 8 ohm	
Connector	Euro style pluggable screw terminal, floating
PLE-1MA030-EU	16 V (30 W)
PLE-1MA060-EU	22 V (60 W)
PLE-1MA120-EU	31 V (120 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-1MA030-EU	Approx. 5 kg
PLE-1MA060-EU	Approx. 8.5 kg
PLE-1MA120-EU	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-1MA120-EU)	<33 dB SPL @ 1 m

Certifications and approvals	
Safety	acc. to EN 60065
EMC emission	acc. to EN 55103-1
EMC immunity	acc. to EN 55103-2

Installation/configuration notes



Rear view

Parts included	
Quantity	Components
1	PLE-1MAxx0-EU Plena Mixer Amplifier
1	Power cord
1	Manual
1	Set of 19" mounting brackets
1	Plena Easy Line CD

Ordering information	
PLE-1MA030-EU Plena Mixer Amplifier	PLE-1MA030-EU
PLE-1MA060-EU Plena Mixer Amplifier	PLE-1MA060-EU
PLE-1MA120-EU Plena Mixer Amplifier	PLE-1MA120-EU

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