

PLE-1ME120-3AP Mixer amplifier, 120W, USB/BT

PLENA solutions



- ▶ Inbuilt Bluetooth for audio streaming
- ▶ Supports audio playback from USB pen drive
- ▶ 4 microphone/line inputs, plus music source input
- ▶ Optional 2-tone chime generation for input 1
- ▶ Insert feature to use as a pre/power amplifier

This PLENA Economy mixer amplifier is a professional public address unit with modern state-of-the-art features.

It is easy to use, taking the complexity away from the user and putting it where it belongs, inside the equipment. Providing crisp and clear announcements and music is as easy as turning on a radio. Offering the essentials of public address in an affordable package.

System overview

The mixer amplifier is equipped with an inbuilt music source, which can provide hours of uninterrupted music either through Bluetooth streaming or USB pen drive. It is supplied with an IR remote control for controlling the music source. The unit features four mic/line inputs, 1 BGM and operates in a single zone. To ensure optimum performance, there are no moving parts, such as hard drives that can fail or wear out. The unit has a limiter circuit and provides an audio insert feature to use as a pre/power amplifier. The VU meter gives an output level indication.

Functions

Power

The mixer amplifier has an output power of 120 W. This power is directly available on 100 V constant voltage connections and on a low impedance connection for a 4-ohm load. Moreover, the amplifier has 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 as unbalanced inputs. Phantom power can be switched-on to provide power to condenser microphones.

Input channel 1 can take priority over all other microphone, AUX & 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 source and AUX input

The unit has an internal music source and AUX input option. The internal music source plays audio files from a USB pen drive (with a capacity of up to 32GB) or streamed through Bluetooth. The player will automatically search and play all playable audio tracks from the USB pen drive and has repeat/random/all modes. The following formats are supported: MP3 and WAV files with bit rates from 32 kbit/s.

Personalized settings

Another useful feature is to indicate preferred settings on the front panel by inserting colored pins at the preset levels of all knobs. One user can make use of silver pins to set the controls as per his convenience. A second user can make use of red pins to set the controls for his particular use.

Output status

An LED VU meter provides output indication. A headphone socket (6.3 mm), 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 panel



- Power-ON switch with LED indication
- LCD display, USB port, UBS/BT keyboard functions with IR remote sensor
- Four volume knobs for microphone inputs
- Volume knob for AUX input
- Knob for treble level
- Knob for bass level
- Master volume knob
- LED VU meter for master output (LEDs for -18, -12, -6, -3, 0 dB)
- Headphone socket

Back panel



- Four inputs with DIP switches
- AUX input
- Pair of RCA connectors for Insert feature
- 100 V and 4-ohm loudspeaker outputs
- A/c socket with fuse holder

Certifications and approvals

Safety	acc. to IEC 62368-1
Vibration and shock	acc. to IEC 60068
Transport	as per IS7028
EMC emission	acc. to CISPR 32
EMC immunity	acc. to EN 55103-2: 2009 + A1: 2012

Parts included

Quantity	Component
1	Mixer amplifier
1	Power cord

Quantity	Component
1	Remote control for music source
1	Installation and operation manual

Technical specifications

Electrical	
Mains power supply	
Voltage	220-230V, AC, 50Hz / 120W (reduced power at lower mains)
Inrush current	36 A
Performance	
Frequency response	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
AUX input	
Connector	Cinch, stereo converted to mono
Sensitivity	200 mV to 300 mV
Impedance	22 kohm
S/N (flat at max. volume)	≥70 dB
Headroom	>25 dB
Insert 1 x	
Connector	RCA Cinch
Sensitivity	1 V
Impedance	>10 kohm
Loudspeaker Output 100V	
Connector	Screw terminal, floating
Max. / rated	180 W / 120 W
Loudspeaker output 4 Ohm	
Connector	Screw terminal, floating
Max. / rated	22 V (120 W)

Mechanical

Dimensions (H x W x D)	100 mm x 430 mm x 290 mm (19" wide, 2U high)
Mounting	Stand-alone, 19" rack
Color	Charcoal
Weight	Approx. 8.9 kg

Environmental

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

Ordering information

PLE-1ME120-3AP Mixer amplifier, 120W, USB/BT
 Mixer amplifier, 120 W, 4 microphone/line inputs and 1
 BGM input, USB/Bluetooth.
 Order number **PLE-1ME120-3AP | F.01U.393.606**

Represented by:

Europe, Middle East, Africa:
 Bosch Security Systems B.V.
 P.O. Box 80002
 5600 JB Eindhoven, The Netherlands
 Phone: + 31 40 2577 284
 emea.securitysystems@bosch.com
 www.boschsecurity.com

Germany:
 Bosch Sicherheitssysteme GmbH
 Robert-Bosch-Ring 5
 85630 Grasbrunn
 Germany
 www.boschsecurity.com

North America:
 Bosch Security Systems, LLC
 130 Perinton Parkway
 Fairport, New York, 14450, USA
 Phone: +1 800 289 0096
 Fax: +1 585 223 9180
 onlinehelp@us.bosch.com
 www.boschsecurity.us

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