

PLE-1ME120-4IN Class-D Mixer Amplifier, 120W, USB/BT



- ▶ Inbuilt Bluetooth and FM 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
- ▶ Separate 100 V call only output for priority announcements

This PLENA Class-D 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. The amplifier offers the essentials of public address in an affordable package.

System overview

The mixer amplifier is equipped with an inbuilt media player, which can provide hours of uninterrupted music either through Bluetooth streaming or a USB pen drive. It is supplied with an IR remote control for controlling the music source. The device has four mic/line inputs, one AUX input and operates in a single zone. To ensure optimum performance, there are no moving parts that can fail or wear out, such as hard drives.

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.

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 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 source and AUX input

The device has an internal media player and an AUX input option. The internal media player plays audio files from a USB pen drive (with a capacity of up to 32 GB) or streamed through Bluetooth. The player automatically searches and plays all playable audio tracks from the USB pen drive and has repeat/random/all modes. Both MP3 and WAV file formats are supported, with bit rates from 32 kbit/s.

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



- LCD display, USB port, USB/BT keyboard functions with IR remote sensor
- Four volume knobs for microphone inputs
- Common volume knob for AUX and Music source inputs, selectable through the mode button in the front panel
- Knob for treble level
- Knob for bass level
- Master volume knob

Rear panel



- Power On switch
- 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

Regulatory information

Certified for	According to
Safety	IEC 62368-1

Vibration and shock	IEC 60028-2-6; IEC 60068-2-27
Transport	ISTA 2A 2008
EMC emission	CISPR 32
EMC immunity	CISPR 35; IEC 61000-4-3

Installation/configuration notes

This is a professional product that should be installed, used and maintained by trained professionals only.

Parts included

Quantity	Component
1	Class-D Mixer amplifier
1	Power cord
2	Rack mounting bracket
1	Remote control for music source
1	MIC-1 input connector (1x5 phoenix connector)
1	Output connector (1x5 phoenix connector)
1	FM antenna
1	User manual

Technical specifications

Electrical

Mains power supply

Input voltage (VAC)	230 VAC
Inrush current (A)	35 A
Power consumption (VA) (maximum)	280 VA

Performance

Rated output (RMS) (W)	120 W
Frequency response (Hz) (+1/-3 dB)	70 Hz – 18,000 Hz @ -10 dB of rated output
Total harmonic distortion (%)	< 1% @ rated output power
Bass control (dB)	+/- 8 dB
Treble control (dB)	+/- 8 dB

Inputs and outputs

MIC / Line input 1-4

Connector type - input 1	5-pin Euroblock, balanced
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Connector type - input 2	3-pin female XLR, balanced
Connector type - input 3 and 4	1/4" TRS jack, balanced
Sensitivity (mV) - MIC	1 mV
Sensitivity (mV) - Line	200 mV - 300 mV
Input impedance (k Ω) - MIC	> 1 k Ω
Input impedance (k Ω) - Line	> 5 k Ω
Minimum signal-to-noise ratio (dB) - MIC	\geq 60 dB
Minimum signal-to-noise ratio (dB) - Line	\geq 65 dB
Headroom (dB)	> 20 dB
Speech filter	-3 dB @ 315 Hz, high-pass, 6 dB/oct.
Phantom power supply (V) - MIC	9 V

AUX input

Connector type	RCA
Sensitivity (mV)	200 mV - 300 mV
Input impedance (k Ω)	22 k Ω
Minimum signal-to-noise ratio (dB)	65 dB
Headroom (dB)	20 dB

Loudspeaker output 100 V

Connector type	Phoenix connector (1x5)
Maximum output voltage (V)	141 V

Loudspeaker output 4 Ω

Connector type	Phoenix connector (1x5)
Maximum output voltage (V)	31
Rated output voltage (V)	21.9 V

Mechanical

Dimensions (H x W x D) (mm)	44 mm x 430 mm x 346 mm
Weight (kg)	5.9 kg
Color (RAL)	RAL 9017 Traffic black

Mounting type	Rack-mounted; Tabletop
Rack unit (U)	1 U (19 in)

Environmental

Operating temperature (°C)	-5 °C – 45 °C
Storage temperature (°C)	-20 °C – 70 °C
Operating relative humidity, non-condensing (%)	< 95%

Ordering information

PLE-1ME120-4IN Class-D Mixer Amplifier, 120W, USB/BT
 Class-D mixer amplifier of 120 W with four microphone/line inputs, one BGM input, and USB, Bluetooth and FM.
 Order number **PLE-1ME120-4IN | F.01U.433.911**



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