

PLN-2AIO360-IN PLENA 360W all-in-one amplifier

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- ▶ Two Channel Output
- ▶ 6 Microphone Inputs with independent level control
- ▶ USB drive and SD card for MP3 playback
- ▶ Built-in FM tuner with preset memories
- ▶ 100V/Telephone input with priority and VOX

The PLENA all-in-one mixer amplifier is a versatile solution for public address, emergency announcements and back-ground-music (BGM) requirements. This high-performance device is easy to install and operate.

Typical applications of PLENA all-in-one 360W mixer amplifier include use in supermarkets, restaurants, schools, retail chains, canteens, places of worship, gymnasiums, and so on, where BGM provides the right atmosphere, at the same time announcements can be made clearly and with ease.

System overview

The all-in-one amplifier is mixer amplifier with inbuilt music source. The all-in-one unit can provide hours of uninterrupted music from USB or SD flash memory. The unit also has a built in FM tuner with presets. To ensure optimum performance, the all-in-one unit has no moving parts, such as hard drives that can fail or wear out. The unit is supplied with an IR remote control for controlling the music source.

Functions

Microphone and line inputs

The Plena all-in-one 360W mixer amplifier has six microphone inputs with phantom power supply option. Individual input level controls are provided to optimize the performance (except Aux input).

Music source and music input

The unit has two music inputs and an internal music source. There is a source select button on the front panel to select between the two auxiliary inputs and the internal music source. The internal music source plays MP3 files from an SD card or USB device with a capacity of up to 32 GB. The player will automatically search and play all playable MP3 files and has repeat and random play modes. The following formats are supported: MP3 files with bit-rates from 32 to 320 kBit/s.

FM Tuner

The digitally controlled FM tuner uses a frequency synthesizer for accurate capture of radio stations and has five presets to store favorite radio stations.

Integration

A 100V emergency/telephone input with VOX principle activation is provided for easy integration with another PA system or a telephone paging system. It has its own preset volume control and overrides all other inputs, including music input and mic/line inputs. The unit also has two line outputs to add booster amplifiers for larger systems with more output power. The unit has a 24VDC input for backup power supply. The unit has an RJ45 connector for integration with the PLE-2CS Call station.

Outputs

Two LED VU meters monitor the master outputs for the two channels. A headphone socket, below the VU meter, provides the mixer output. The power is directly available on 100/70 V constant voltage connections and on a low impedance connection for a 8/4 Ohm load. The line out provides the line level mixer output through the XLR connector.

Channels

The PLENA 360 watts mixer amplifier has two channels. Announcements from the PLE-2CS two-zone call station can be routed to channel 1 or channel 2, or both. Announcements from the Telephone/100 V input are routed to both channels and can override the microphone and call station.

Controls and indicators

Front Panel

- Power on switch and LED
- Two LED VU meters for master output
- Master volume control
- Six volume control knobs for microphone inputs
- Volume knob for background music
- Source select button for music source
- Knob for treble level
- Knob for bass level
- Headphone socket

Rear Panel

- Four mic/line inputs, two mic inputs, and two Aux inputs
- Dip switches
- Two Line outputs
- Telephone/Emergency input with volume control
- RJ45 input for connecting PLE-2CS
- 100/70V and 8/4 Ohm loudspeaker outputs
- 24 VDC Backup input

Certifications and approvals

Safety	acc. to EN 60065: 2014
Resistance to shock, vibration, bump and transport	IEC 60068-2-6
EMC emission	acc. to EN 55032: 2015
EMC immunity	acc. to EN 55103-2: 2009. EN61000-3-2: 2014. EN61000-3-3: 2013.

Parts included

Quantity	Component
1	All-in-one Mixer Amplifier
1	Power cord
1	Remote control for Music source
1	FM Antenna with connector
1	Installation and Operating manual

Technical specifications

Electrical

Mains Power Supply	
Voltage	230 VAC, ±10%, 50 Hz
Inrush Current PLN-2AIO360-IN	20A
Battery power supply	
Voltage	24VDC ±15%
Current	24A
Performance	
Max/Rated Output Power per channel	270W/180W
Frequency response	80Hz to 18kHz
Distortion	<1.1% at rated power, 1kHz
Low Control	Max -8/+8 dB
Hi Control	Max -8/+8 dB
Inputs	
Input 1 to 4	XLR and 6.3mm TRS combo, balanced, Phantom
	Mic/line - Selectable
Input 5 and 6	6.3 mm Jack connector, Mic only, Phantom
Sensitivity	1 mV (mic); 200 mV (line)
Impedance	≥1 kOhm (mic); >5 kOhm (line)
S/N at rated power	≥60 dB (mic); 65 dB (line)
CMRR (mic.)	>40 dB
Phantom power supply	9 V via 2.2 kOhm Load (mic)
Speech filter	<-3 dB @ 315 Hz, 6dB/Oct
Music Input	
Connector	Cinch, Input 1 (stereo), Input 2 (mono)
Sensitivity	200 mV to 300 mV

Impedance	22 kOhm
S/N at rated power	≥65 dB
Line 1 and Line 2 Output	
Connector	3-pin XLR , balanced
Nominal level	1V
Output Impedance	<2 kOhm
Emergency Input/Telephone	
Connector	5-pin, Euro style pluggable screw terminal
Sensitivity (telephone)	100 mV - 1 V adjustable
Sensitivity EMG	100 V
Impedance	>10 kOhm
S/N	> 65 dB
Call station input	
Connector	RJ45
Loudspeaker Output	
Connector	Euro style pluggable screw terminal, floating
Max./Rated Power	270W / 180W
Output	100/70 V, 8/4 Ohm

Mechanical

Dimensions (H x W x D)	143 x 433 x 534 mm (3U high)
Mounting	Surface mountable / table mountable
Color	Charcoal
Weight	Approx. 27 kg

Environmental

Operating temperature	0 °C to +55 °C
Storage temperature	-20 °C to +70 °C
Relative humidity	<95%

Ordering information

PLN-2AIO360-IN PLENA 360W all-in-one amplifier
 PLENA all-in-one 360 W Two Channel Mixer Amplifier.
 Order number **PLN-2AIO360-IN**

Represented by:

BOSCH Limited
Post Box No. 3000
Hosur Road, Adugodi
Bengaluru – 560 030

Tel. : +91 80 6752 8196
Fax. : +91 80 6752 8263
www.in.boschsecurity.com