

# LBD19xx/00 Plena Mixer Amplifiers

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Invented for life



- ▶ Wide range of mixer amplifiers with output power of 60 W, 120 W and 240 W.
- ▶ Four low-noise inputs of microphone or line level.
- ▶ Selectable priority & VOX switching on microphone input 1.
- ▶ Optional 2-tone chime to precede announcements.
- ▶ Choice of CD, tuner or auxiliary music inputs.

The Plena mixer amplifier is a versatile, high-performance unit with four mono microphone inputs and a music input. It fulfills a wide variety of public address requirements at a surprisingly low cost.

## Functions

The input channels have a phantom power supply to provide power to condenser microphones and selectable speech filters for improved intelligibility. Input channels 3 and 4 can also be switched to line sensitivity. Separate music inputs are available with their own input selector and volume control. Input channel 1 can take priority over all other microphone and music inputs. Contact closure on the 5-pin DIN connector, or if the signal level on channel 1 exceeds a predefined value (VOX) will activate priority. A 2-tone chime can be configured to precede a priority announcement. A telephone or emergency input with VOX activation and its own preset volume control overrides all other input.

Loop through input and output connections enable external sound processing equipment, such as an equalizer or the Plena feedback suppressor, to be connected between the preamplifier and the power amplifier stages. An LED VU-meter monitors the master output.

The Plena mixer amplifiers come in a range of maximum output power. This power is directly available on 70 V and 100 V constant voltage connections and on a low impedance connection for an 8 ohm load.

## Controls and indicators

### Front

- LED power meter
- Power on LED
- Master volume control knob
- Three knobs for BGM volume, treble, and bass levels
- BGM source selection knob
- On/off switch

### Back

- EMG input volume control
- Two mic/line switches
- Chime on/off switch
- Mains voltage switch

## Interconnections

### Back

- Priority mic input (DIN/6.3 mm jack)
- Mic input (6.3 mm jack)
- Two mic/line inputs (6.3 mm jack)
- Three audio inputs (2 x cinch)
- EMG input (screw)
- Line output (XLR)
- Tape output (2 x cinch)
- Insertion input/output (2 x cinch)

- 24 VDC input
- Three loudspeaker outputs (screw)

### Certifications and approvals

Safety According to EN60065/98

### Parts included

Quantity	Components
1	LBB19xx/00 Plena Mixer Amplifier
1	Power Supply Cord
1	Set of mounting brackets
1	User Instructions

### Technical specifications

#### Electrical

Mains Power Supply	
Operating Voltage	230/115 VAC, $\pm 10\%$ , 50/60 Hz
Inrush current	
LBD1906/00	5A at 230 VAC
LBD1912/00	8A at 230 VAC
LBD1916/00	16A at 230 VAC
Battery Power supply	
Voltage	24 VDC, $\pm 10\%$
Current	
LBD1906/00	3A at 24 VDC
LBD1912/00	6A at 24 VDC
LBD1916/00	12A at 24 VDC
Performance	
Frequency response	50Hz to 18kHz(+1/-3dB)
Distortion	<1%
Bass control	$\pm 8$ dB
Treble control	$\pm 8$ dB
Mic input	
Input 1	5-pin DIN, 6.3 mm phone jack, balanced
Impedance	1kOhm Balanced
Sensitivity	1.0mV
S/N	60dB
Chime	0/2(OFF/ON) selectable for DIN input only
Sensitivity(of Inputs 2,3 and 4)	200mV
Phantom power supply	18V via 1.2kOhm

Priority level(using the 5-pole DIN connector for mic 1)	Emg	Mic 1	Mic 2	Mic 3	Mic 4	Aux
	3	2	1	1	1	1
Priority Level(using the phone jack for mic 1)	Emg	Mic 1	Mic 2	Mic 3	Mic 4	Aux
	3	1	1	1	1	1

**Music Stereo Input**

Impedance	22kOhm unbalanced
Sensitivity	200mV
S/N	65dB(75dB Volume left)
Headroom of AUX	25dB

**Emergency Input**

Impedance	20kOhm balanced
Sensitivity	100mV to 1V
Attack time	150msec.(VOX)
Release time	2 sec
S/N	>60dB

**Mechanics**

Dimensions (H x W x D)	88 x432 x 250 mm
Mounting Options	Rack Mounting

**Environmental**

Operating temperature	-10 °C to +45 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	<95%

**Ordering information**

**LBD1906/00 Power Amplifier**

Order number **LBD1906/00**

**LBD1912/00 Power Amplifier**

Order number **LBD1912/00**

**LBD1916/00 Power Amplifier**

Order number **LBD1916/00**

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