

PRE ST 1

4-CHANNEL STEREO MIXER PREAMPLIFIER

FEATURES

- Line input for emergency signal with priority contact closure
- 2 Mic/line inputs with microphone/line switching and switchable 24-V phantom power
- Priority contact closure and switchable chime function for mic/line channels
- 3 stereo music sources: 2 line inputs with RCA sockets plus Bluetooth 4.0 interface
- Gain control and clip LED indicator in the emergency and mic/line inputs
- Balanced stereo line output with terminal block connector, and a mono/stereo switch
- Separate treble and bass tone controls on the rear panel
- 4 priority settings for versatile integration options
- Switchable auto standby mode to save energy
- User-friendly front panel control interface, and clear rear panel layout

DESCRIPTION

Permanent installations require solutions which offer a visually discrete design that blends into the background while still being flexible and versatile in their functions. You need to be able to connect different audio sources and manage them, to mute non-priority signals during announcements or emergency calls.

The PRE ST 1 is a 4-channel multi-functional stereo mixer preamplifier that allows users to mix 2 microphone/line sources together with an emergency line input and one of the 3 music sources available, including a Bluetooth receiver. These versatile connection options together with a four-level priority system, that combines contact closure inputs and VOX audio detection circuits, guarantees a seamless integration in almost any commercial audio application.

PRE ST 1 is equipped with two priority contacts: one for the emergency input, which mutes all the other signal sources, and one for the microphone inputs, which mutes the music signal sources. The stereo balanced line output includes a mono/stereo switch and separate tone controls for bass and treble. An automatic standby mode can also be activated in order to further reduce energy consumption when the device is not used.

The intuitive design of its control panel ensures an easy operation, with input and master volume controls, clear signal level and priority indications, and a practical music source selection and Bluetooth pairing activation via capacitive buttons. On the other hand, the clarity of the rear panel and the compact 9.5" format ensures that the preamplifier can be easily installed.



SPECIFICATIONS

Product number	LDPREST1
General	
Product type	Installation mixer preamplifier
Emergency input	1 balanced line input
Mic/ line inputs	2
Music sources	2 unbalanced stereo line inputs, Bluetooth 4.0
Line Output Connectors	1 (Stereo/Mono switchable)
Cooling	Convection
Priority levels	4
Emergency Input	
Nominal input sensitivity	-3 dBu (Sine 1 kHz, Gain max)
Nominal input clipping	20 dBu (Sine 1kHz)
Connector	5-pin Terminal Block, pitch 5.08mm
Mic/Line inputs 1 – 2	
Nominal input sensitivity Mic	-26 dBu (Sine 1 kHz, Gain max)
Nominal input sensitivity line	-2 dBu (Sine 1 kHz, Gain max)
Nominal input clipping Mic	-5 dBu (Sine 1kHz)
Nominal input clipping line	+19 dBu (Sine 1kHz)
Phantom power	+ 24 V, 10 mA switchable
Priority Contact closure	+5 VDC normally open for dry contact
Connector Mic/Line 1	1 XLR/6.3 mm Jack combo connector, 5-pin Terminal Block, pitch 5.08 mm

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Product number	LDPREST1
Connector Mic/Line 2	1 dual RCA Mono Summed, 3-pin Terminal Block, pitch 5.08 mm
Music inputs – CD/AUX	
Nominal input clipping CD/AUX	8 dBV (Sine 1kHz)
Connector CD/AUX	2 x dual RCA Mono Summed
Line Output	
Outputs	Mono switchable, Stereo Line Level
Max. output level	16 dBu
Tone control Bass	+/-10 dB (100 Hz)
Tone control Treble	+/-10 dB (10 kHz)
Power supply	
Type	SMPS
Operating voltage	100 V AC – 240 V AC, 50 – 60 Hz

Product number	LDPREST1
Power consumption (max.)	6 W
Idle power consumption	5 W
Power Consumption @ Standby	< 1 W
Operating temperature (non-condensing)	0°C – 40°C; < 85% humidity, non condensing
General data	
Time to Auto-standby	20 Min
Dimensions (W x H x D)	210 x 95 x 266.76 mm (height with rubber feet)
Optional accessories	Rack mounting hardware
Weight	2.08 kg

ARCHITECT & ENGINEER’S SPECIFICATIONS

The mixing preamplifier shall be designed for permanent installations. It shall allow for the connection and management of different audio sources, with the ability to mute non-priority signals during announcements or emergency calls.

The mixing preamplifier shall be housed in a compact ½ rack format. The included rubber feet shall allow desktop installation. An optional rack mount kit shall allow one or two units to be mounted in a 2U space, or one unit mounted under a desk.

It shall include one balanced line emergency input and two Mic/Line inputs (each with signal and clip indicators), two unbalanced stereo line music sources, and Bluetooth 4.0 wireless audio connection. It shall have one stereo balanced line output with a mono/stereo switch and separate tone controls for bass and treble. Phantom power for the mic inputs shall be switchable at +24V, 10mA.

The preamplifier shall feature a four-level priority system that combines contact closure inputs and VOX audio detection circuits to manage all connected audio signals during emergency or priority announcements. Front panel indicators shall show priority and emergency status. A switchable automatic standby mode can be activated to reduce power consumption when the device is not in use.

The preamplifier shall include two priority contacts: one for the emergency input, which mutes all other signal sources, and one for the microphone inputs, which mutes the music signal sources.

The control panel shall feature signal level and priority indications per input, master volume control with signal, limiter and protection indication and music source selection with Bluetooth pairing.

The preamplifier's stereo balanced line output shall be capable of a maximum output level of 16 dBu. Tone control for bass shall be +/-10 dB at 100 Hz, and for treble, it shall be +/-10 dB at 10 kHz. The unit shall be convection cooled as the switch-mode power supply has very low power consumption.

The mixing preamplifier shall comply with all relevant safety and performance standards and shall be suitable for a wide variety of commercial audio applications requiring clear, versatile audio management.

The mixing preamplifier shall be the LD Systems PRE ST 1.

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TECHNICAL DRAWINGS

Scale 1:5

