Bose L1 Pro16

Bose L1 Pro16 Portable PA System User Manual

Model: L1 Pro16 (840920-1100)
Brand: Bose

1. Introduction

The Bose L1 Pro16 is a portable PA system designed for a balance of power and portability, offering high output and an extended low-frequency range. It features a 16-driver articulated J-shape line array for 180-degree horizontal sound coverage, an integrated subwoofer with a RaceTrack driver for powerful bass, a built-in multi-channel mixer with EQ, reverb, and phantom power, Bluetooth streaming, and wireless app control via the L1 Mix app. This system is ideal for singer-songwriters, mobile DJs, and small ensembles.

2. Product Features

- **Portable PA System:** Optimized for on-the-go simplicity and expanded bandwidth, suitable for small-to-medium sized clubs, bars, and other venues.
- **Premium Full-Range Sound:** Delivers consistent tonal balance for various performers.
- **J-shape Line Array:** Features 16 articulated 2-inch neodymium drivers for wide 180-degree horizontal coverage and supreme vocal/instrument clarity.
- **Integrated RaceTrack Subwoofer:** A 10" x 18" high-excursion neodymium RaceTrack woofer provides powerful bass with a smaller footprint.
- **Easy Portability:** Lightweight design makes it easy to pack, carry, and set up.
- **Built-in 3-Channel Mixer:** Includes EQ, reverb, phantom power, Bluetooth streaming, and ToneMatch presets.
- **Wireless App Control:** Intuitive L1 Mix app for smartphone control.

3. Setup Guide

The L1 Pro16 system is designed for quick and easy setup. Follow these steps to get started:

1. **Unpack Components:** Carefully remove the mid-high array, extension, power stand with subwoofer, IEC power cord, and array/extension carry bag from the packaging.
2. **Position the Power Stand:** Place the power stand (which contains the subwoofer) on a stable, flat surface in your

desired location.

3. **Assemble the Array:** Insert the extension into the power stand. Then, insert the mid-high array into the top of the extension. Ensure all connections are secure. The system can be set up in two positions: collapsed for smaller spaces or extended for larger rooms.
4. **Connect Power:** Connect the IEC power cord to the power stand and then to a suitable power outlet.
5. **Connect Audio Sources:** Use the built-in 3-channel mixer to connect your microphones, instruments, or other audio devices. The mixer features 1/4-inch and XLR combo inputs, 1/4-inch auxiliary inputs, and 48V phantom power for condenser mics.
6. **Bluetooth Pairing:** For wireless audio streaming, activate Bluetooth on your device and pair it with the L1 Pro16.
7. **L1 Mix App (Optional):** Download the free Bose L1 Pro Mix App from your smartphone's app store (iOS or Android) for wireless control of settings, ToneMatch presets, and audio streaming.





Figure 3.1: The Bose L1 Pro16 Portable PA System fully assembled. This image shows the complete system with the subwoofer base and the extended line array speaker.



Figure 3.2: Disassembled components of the L1 Pro16, illustrating its portability. The image displays the subwoofer, the extension pole, and the line array speaker module separately, highlighting how easily it can be transported.

4. Operating Instructions

4.1. Built-in Mixer Controls

The L1 Pro16 features a 3-channel mixer located on the back of the power stand. Illuminated digital rotary encoders provide easy control even in low-light conditions.

- **Channels 1 & 2:** These channels feature 1/4-inch and XLR combo inputs. Adjust *Volume*, *Bass*, and *Treble* using the dedicated knobs.
- **Phantom Power:** Available on Channels 1 and 2 for condenser microphones.
- **Channel 3 (Aux):** Features a 1/4-inch auxiliary input for connecting laptops or other audio devices.
- **Bluetooth Streaming:** Pair your Bluetooth-enabled device to Channel 3 for wireless audio playback.
- **ToneMatch Port:** Connect a Bose T4S or T8S ToneMatch mixer via a ToneMatch cable for expanded input

capabilities and access to a full library of ToneMatch presets.



Built-in 3-channel mixer with illuminated controls

On the back of the Bose L1 Pro16's subwoofer, you'll find a convenient 3-channel mixer with two 1/4-inch and XLR combo inputs, each with 48V phantom power for use with condenser mics, active ribbon mics, and mic boosters. For connecting laptops and other audio devices, the L1 Pro16 contains 1/4-inch and 1/8-inch auxiliary inputs, or you can pair any Bluetooth-enabled device for wireless streaming. Illuminated digital rotary encoders for the volume, bass, and treble controls are easy to see in dark venues. Need more inputs? No problem! Simply connect a Bose T4S or T8S Tone Match mixer via ToneMatch cable to the L1 Pro16's ToneMatch port.

Figure 4.1: Close-up view of the L1 Pro16's built-in 3-channel mixer with illuminated controls. This image clearly shows the volume, bass, and treble knobs, as well as the input jacks and phantom power switch.

4.2. L1 Mix App Control

The L1 Mix app provides wireless control over your L1 Pro16 system from your smartphone or tablet (iOS and Android). This allows you to adjust settings, access custom ToneMatch EQ presets, and stream audio remotely.

- **Remote Adjustments:** Control volume, tone, and reverb settings from anywhere in the venue.
- **ToneMatch Presets:** Apply optimized EQ settings for various microphones and instruments.
- **Audio Streaming:** Stream music directly from your phone or tablet to the system.

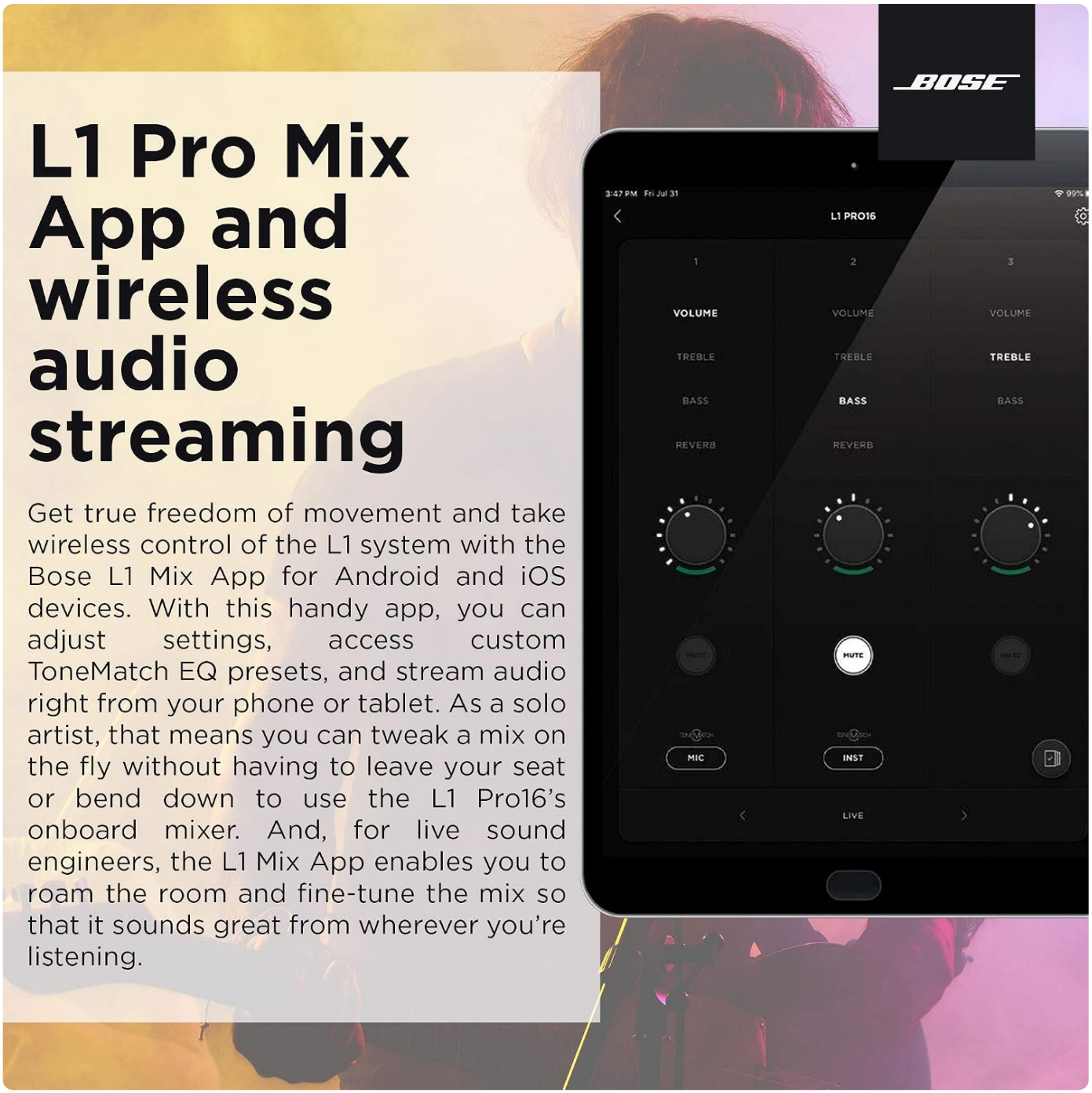


Figure 4.2: Screenshot of the L1 Mix App interface on a tablet, demonstrating wireless control capabilities. The image shows the digital mixer controls for volume, treble, bass, and reverb within the app.

4.3. Optimal Placement

For optimal sound dispersion, place the L1 Pro16 in a central location, ideally slightly behind the performers to allow for both audience and stage monitoring. The 180-degree horizontal coverage ensures consistent sound throughout the venue.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your L1 Pro16 system.

- **Cleaning:** Use a soft, dry cloth to clean the exterior surfaces. Avoid using abrasive cleaners or solvents.
- **Storage:** When not in use, store the system in a dry, temperate environment. Utilize the provided carry bag for protection during transport and storage.
- **Cable Management:** Ensure all cables are neatly organized and not subjected to excessive strain or sharp bends to

prevent damage.

- **Ventilation:** Ensure the power stand's ventilation openings are clear and unobstructed to prevent overheating.

6. Troubleshooting

Problem	Possible Cause	Solution
No Sound Output	Power not connected; Volume too low; Input device not connected or muted; Incorrect input selection.	Check power connection; Increase volume on L1 Pro16 and input device; Ensure input device is connected to the correct channel and unmuted; Select correct input channel.
Distorted Sound	Input signal too high (clipping); EQ settings incorrect; Damaged cable.	Reduce input volume on device or L1 Pro16; Adjust EQ settings; Try a different cable.
Bluetooth Disconnection	Device too far from L1 Pro16; Interference; Bluetooth on device is off.	Move device closer; Reduce interference sources; Re-enable Bluetooth on your device and re-pair.

7. Specifications

Feature	Detail
Model Name	L1 Pro16
Item Model Number	840920-1100
Mounting Type	Freestanding
Speaker Type	Subwoofer, Woofer
Special Feature	Portable
Connectivity Technology	Bluetooth
Subwoofer Diameter	10" x 18" RaceTrack Woofer (equivalent to 15-inch conventional woofer)
Line Array Drivers	16 x 2-inch neodymium drivers
Horizontal Coverage	180 degrees
Controller Type	App Control
Color	Black
Included Components	Mid high array, extension, powerstand with subwoofer, IEC power cord, array/extension carry bag
Product Dimensions	13.98"D x 79.21"W x 17.95"H
Item Weight	52 Pounds

Feature	Detail
Speaker Maximum Output Power	600 Watts

8. Warranty and Support

The Bose L1 Pro16 Portable PA System comes with a Limited Warranty. For specific terms and conditions, please refer to the official Bose website or the warranty card included with your product.
For customer support, technical assistance, or service inquiries, please visit theBose Store on Amazon or the official Bose Professional website.
You can also find the User Manual (PDF)here.

9. Additional Resources

9.1. Official Product Videos

Below are official product videos from the seller that provide further insights into the Bose L1 Pro16 system.
No official seller videos are available in the provided data.

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Details

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