

**SubZero**

8" DSP COLUMN PA  
USER MANUAL

8  
4  
A-14  
8  
S  
Z  
P  
A



---

## INTRODUCTION

Thank you for purchasing the Subzero SZPA-L48 / SZPA-L48B Active DSP Column PA System. To get the most out of your product, please read this manual carefully.

### BOX CONTENTS

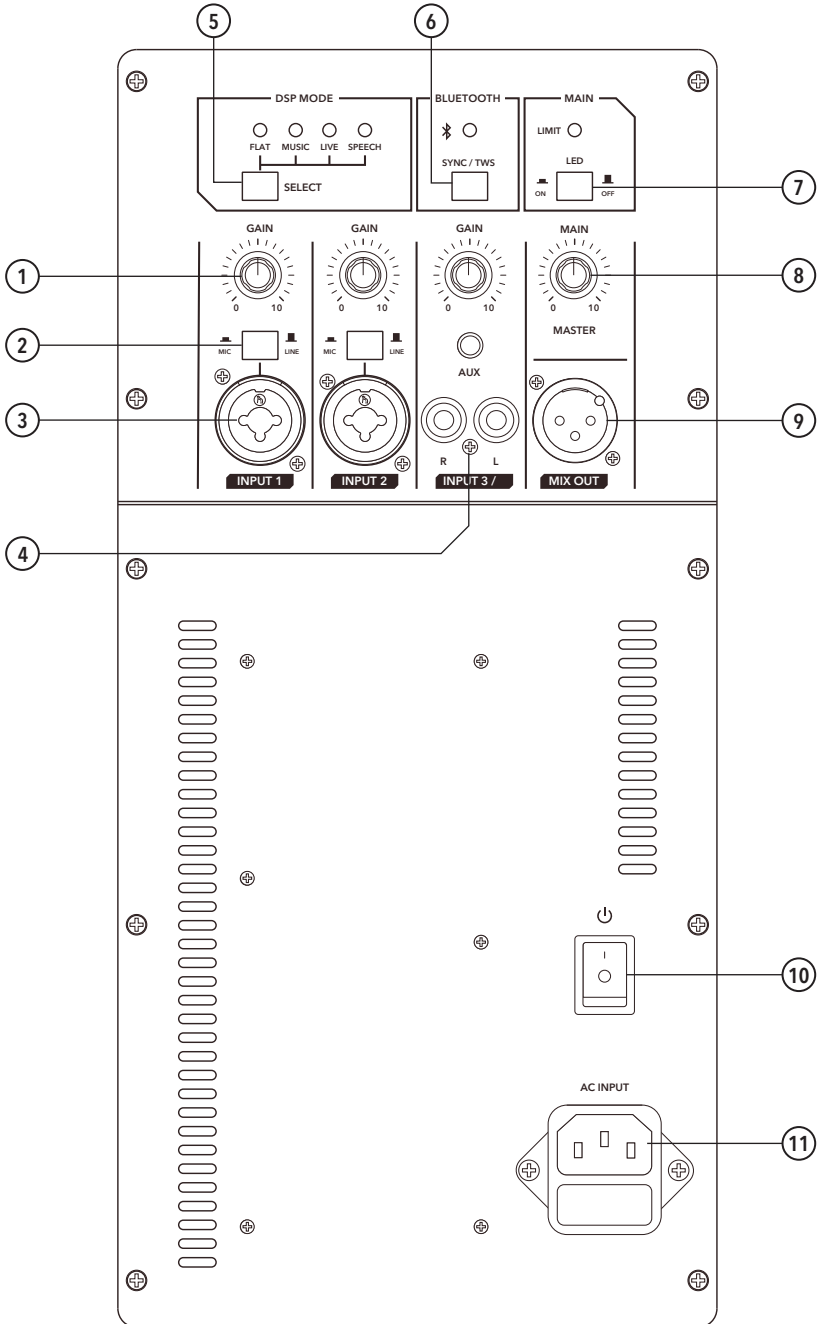
- 1 X Active powered subwoofer with mixer
- 1 x Column speaker enclosure (incorporating 4x2" wideband speakers)
- 2 x Column spacers
- 1 x UK IEC mains cable
- 1 x EU IEC mains cable
- 1 x Manual

### PRODUCT FEATURES

- 4 x DSP modes
- 3 x Inputs (2 x combi inputs, 1 x RCA/ 3.5mm aux input)
- Bluetooth / TWS connectivity
- Rechargeable lithium battery (SZPA-L48B only)

# FUNCTIONS

SZPA-L48



---

# FUNCTIONS

## SZPA-L48

### 1. INPUT LEVEL CONTROL

This controls the input gain of the signal coming into the speaker, and allows you to adjust the volume of your microphone, instrument, or audio source.

### 2. MIC/LINE IN SWITCH

This switch allows you to choose the signal level at the input. When pressed it sets it to microphone level and when released, it sets the input to line level. This is important for matching the input level to the source.

### 3. COMBI INPUT

These inputs can accept both XLR and 6.35mm TRS jack connectors. They can be used for line or microphone level signals.

### 4. AUX INPUT

This input can accept either RCA phono and 3.5mm TRS jack connector at line level. It provides flexibility for connection of different types of audio sources.

### 5. DSP MODE

This feature toggles the built-in digital signal processor between different settings to adjust the sound characteristic. The indicator LEDs show which setting is selected, with the following options:

#### 1. FLAT

#### 2. MUSIC

#### 3. LIVE

#### 4. SPEECH

Note: See further information on page 10.

### 6. BLUETOOTH/ TWS SYNC BUTTON

This button is used to set up pairing with Bluetooth-capable devices like tablets, laptops and other Bluetooth enabled devices and allows you to stream audio wirelessly to the speaker. True Wireless Stereo™ (TWS) means that you can connect two speakers without any wires between them to create a stereo sound system.

Note: See further information on page 9.

### 7. LED BUTTON

This button controls the LED indicator light on the front of the speaker. When pressed, it turns the LED light on, and when released, it turns them off. This feature can be used to reduce visual distractions during performances.

### 8. MAIN VOLUME CONTROL

The master volume controls the overall volume of the speaker.

### 9. MIX OUTPUT

This male XLR connector sends a copy of the sound outputted from the speaker, but at line level it can be used to daisy-chain active speakers together for larger sound setups.

### 10. POWER SWITCH

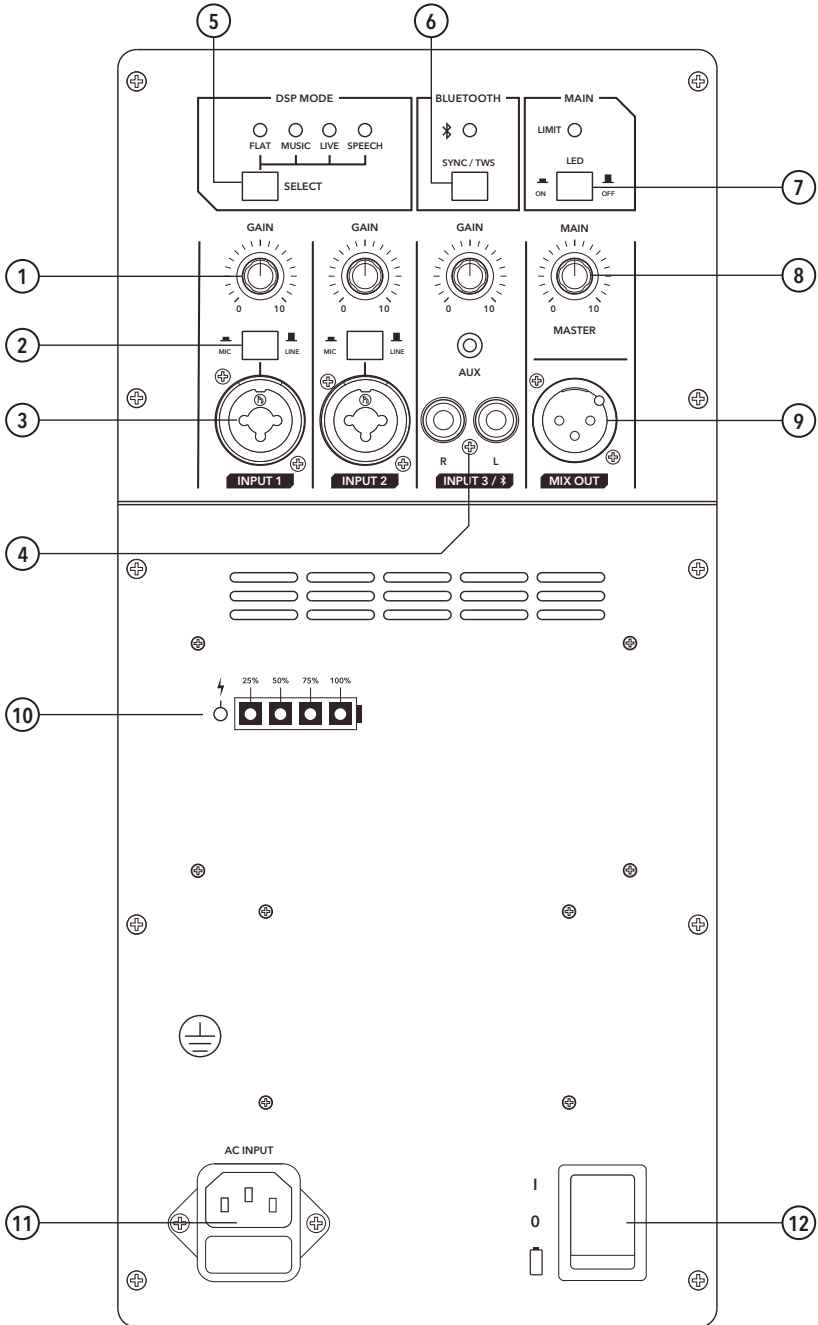
3 way power switch. Press up to power on and press down for battery use and charging. Please make sure the main volume control is down before turning the speaker on, to prevent sudden loud noises.

### 11. IEC SOCKET WITH FUSE HOLDER.

This is the power input for the speaker and uses a standard IEC power cable for connection. Only use included IEC mains cable, and replace fuses with identical ratings.

# FUNCTIONS

SZPA-L48B



---

# FUNCTIONS

## SZPA-L48B

### 1. INPUT LEVEL CONTROL

This controls the input gain of the signal coming into the speaker, and allows you to adjust the volume of your microphone, instrument, or audio source.

### 2. MIC/LINE IN SWITCH

This switch allows you to choose the signal level at the input. When pressed it sets it to microphone level and when released, it sets the input to line level. This is important for matching the input level to the source.

### 3. COMBI INPUT

These inputs can accept both XLR and 6.35mm TRS jack connectors. They can be used for line or microphone level signals.

### 4. AUX INPUT

This input can accept either RCA phono and 3.5mm TRS jack connector at line level. It provides flexibility for connection of different types of audio sources.

### 5. DSP MODE

This feature toggles the built-in digital signal processor between different settings to adjust the sound characteristic. The indicator LEDs show which setting is selected, with the following options:

#### 1. FLAT

#### 2. MUSIC

#### 3. LIVE

#### 4. SPEECH

Note: See further information on page 10.

### 6. BLUETOOTH/ TWS SYNC BUTTON

This button is used to set up pairing with Bluetooth-capable devices like tablets, laptops and other Bluetooth enabled devices and allows you to stream audio wirelessly to the speaker. True Wireless Stereo™ (TWS) means that you can connect two speakers without any wires between them to create a stereo sound system.

Note: See further information on page 9.

### 7. LED BUTTON

This button controls the LED indicator light on the front of the speaker. When pressed, it turns the LED light on, and when released, it turns them off. This feature can be used to reduce visual distractions during performances.

### 8. MAIN VOLUME CONTROL

The master volume controls the overall volume of the speaker.

### 9. MIX OUTPUT

This male XLR connector sends a copy of the sound outputted from the speaker, but at line level it can be used to daisy-chain active speakers together for larger sound setups.

### 10. BATTERY INDICATORS

These LED indicators provide real-time information on battery charge status in battery mode. A red indicator suggests low battery and should prompt recharging. While charging, the indicator illuminates, and once fully charged, turns off.

### 11. IEC SOCKET WITH FUSE HOLDER.

This is the power input for the speaker and uses a standard IEC power cable for connection. Only use included IEC mains cable, and replace fuses with identical ratings.

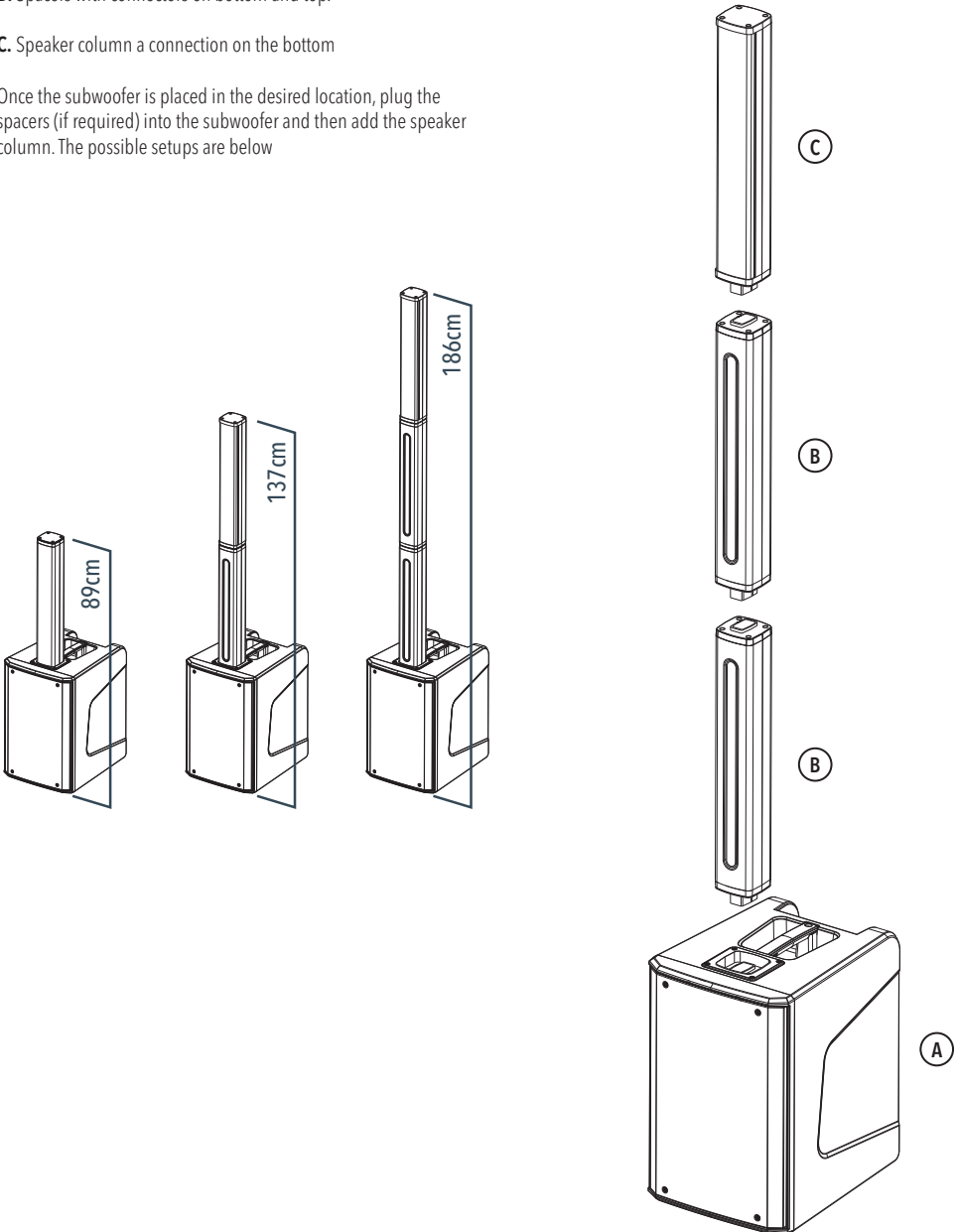
### 12. POWER SWITCH

3 way power switch. Press up to power on and press down for battery use and charging. Press into the middle position to power off the device. Please make sure the main volume control is down before turning the speaker on, to prevent sudden loud noises.

## COLUMN SETUP

- A. Subwoofer with integrated electronics for all system components.
- B. Spacers with connectors on bottom and top.
- C. Speaker column a connection on the bottom

Once the subwoofer is placed in the desired location, plug the spacers (if required) into the subwoofer and then add the speaker column. The possible setups are below





---

## BLUETOOTH/ TWS OPERATION

### BLUETOOTH PAIRING:

Press and hold the SYNC/TWS button on the speaker for 3 seconds until the blue light blinks. This turns on Bluetooth and makes the speaker discoverable.

On your mobile device, go to Bluetooth settings, find "SZPA-L48" in the list of available devices, and click to connect. The blue light on the speaker stops blinking when the connection is successful.

Adjust the volume using the controls on the speaker to play music from your mobile device.

### TWS (TRUE WIRELESS STEREO):

To create a stereo sound setup, ensure both speakers have their SYNC/TWS light flashing.

On one speaker, hold down the SYNC/TWS button for 3 seconds until its blue light blinks. Do the same on the other speaker by holding the SYNC/TWS button until it flashes.

Press the SYNC/TWS button on either speaker for 3 seconds to make it the host. They will now connect in TWS mode.

Once connected, the blue light stops flashing on the host, and the SYNC/TWS button light on the other speaker goes off. Both speakers are now synchronised.

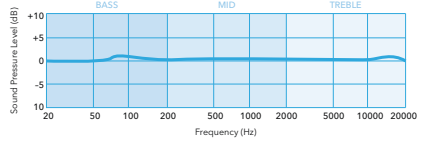
To disconnect, hold down the SYNC/TWS button for 3 seconds to turn off Bluetooth and disconnect from your device.

# DSP MODES

## FLAT



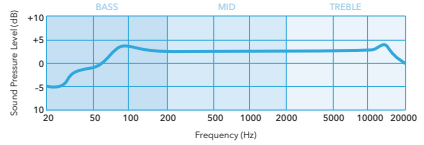
Completely neutral. No DSP processing is applied, so you hear everything exactly as it is.



## MUSIC



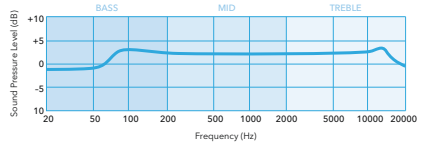
This mode caters to DJ and music playback applications, offering a full-range audio experience with an emphasis on pronounced bass and brilliant high frequencies.



## LIVE



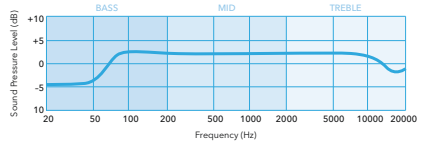
Cut through audiences for a pronounced sound, with a slight low-end boost to add 3D depth.



## SPEECH



Tailored for speech clarity, this mode attenuates low-frequency vocal resonance, boosts high frequencies critical for intelligibility.



# SPECIFICATIONS

## SZPA-L48

Type	Ultra-portable column PA system with mixer
Frequency response	55Hz-19kHz (-10dB) via integrated system filter
Power output (RMS/peak)	200W/600W
Amplification	Class D x 2
Input sensitivity	(selectable) 0dBu
Sensitivity (1 W/1m)	95dB
Max. SPL (peak)	121dB
Protection circuits	DSP-based multiband limiter, short circuit, over current, overheating
Impedance	4 ohms
Vertical array system	4x2" wideband speakers
Sub-woofer	1x8" woofer 1.5" voice coil Directivity: 120°x20° Crossover: 250Hz 24dB/oct Sub-woofer connectors: 2 x combo (XLR/jack 6.35mm), aux input: 3.5mm mini jack/Bluetooth/RCA phono
Cabinet material	Sub-woofer/satellites: PP
Cabinet surface	Painting
Dimensions (WxHxD)	Subwoofer: 290 x 420 x 360mm, column (3x): 78 x 78 x 520mm
Weight	11.8kg
Fuse	T1.6A/250V
Power consumption	150W

## SZPA-L48B

Type	Ultra-portable column PA system with mixer
Frequency response	55Hz-19kHz (-10dB) via integrated system filter
Power output (RMS/peak)	200W/600W
Amplification	Class D x 2
Input sensitivity	(selectable) 0dBu
Sensitivity (1 W/1m)	95dB
Max. SPL (peak)	121dB
Protection circuits	DSP-based multiband limiter, short circuit, over current, overheating
Impedance	4 ohms
Vertical array system	4x2" wideband speakers
Sub-woofer	1x8" woofer 1.5" voice coil Directivity: 120°x20° Crossover: 250Hz 24dB/oct Sub-woofer connectors: 2 x combo (XLR/jack 6.35mm), aux input: 3.5mm mini jack/Bluetooth/RCA phono
Cabinet material	Sub-woofer/satellites: PP
Cabinet surface	Painting
Dimensions (WxHxD)	Subwoofer: 290 x 420 x 360mm, column (3x): 78 x 78 x 520mm
Weight	12.7kg
Battery Capacity	7Hrs 100% Power 12Hrs 50% Power 14.8V / 5400mAh
Fuse	T1.6A/250V
Power consumption	150W

