

# 8" Portable Powered Loudspeaker

## OWNER'S MANUAL


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# Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use attachments/accessories specified by the manufacturer.
- 11. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus.
- 15. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 16. The maximum ambient temperature during use of the appliance must not exceed 45° C.
- 17. Operation frequency: 2400MHz – 2483.5MHz
- 18. RF POWER = <20dBm







**CAUTION**  
RISK OF ELECTRIC SHOCK! DO NOT OPEN!



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

 The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of significant magnitude to constitute a risk of electric shock to persons.

 The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintaining (servicing) instructions in the literature accompanying the appliance.



**Correct disposal of this product:** This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

WARNING: To reduce the risk of fire or electric shock, do not use this product near water. Do not use this product near flammable liquids or gases. Do not use this product near heat sources. Do not use this product near electrical equipment. Do not use this product near children. Do not use this product near pets. Do not use this product near food or drink. Do not use this product near clothing. Do not use this product near hair. Do not use this product near makeup. Do not use this product near jewelry. Do not use this product near watches. Do not use this product near glasses. Do not use this product near contact lenses. Do not use this product near hearing aids. Do not use this product near dentures. Do not use this product near prostheses. Do not use this product near medical equipment. Do not use this product near electronic equipment. Do not use this product near power lines. Do not use this product near high voltage equipment. Do not use this product near radio equipment. Do not use this product near television equipment. Do not use this product near computer equipment. Do not use this product near mobile phone equipment. Do not use this product near wireless equipment. Do not use this product near Bluetooth equipment. Do not use this product near Wi-Fi equipment. Do not use this product near ZigBee equipment. Do not use this product near LoRa equipment. Do not use this product near NB-IoT equipment. Do not use this product near 5G equipment. Do not use this product near 4G equipment. Do not use this product near 3G equipment. Do not use this product near 2G equipment. Do not use this product near GSM equipment. Do not use this product near CDMA equipment. Do not use this product near TDMA equipment. Do not use this product near FDMA equipment. Do not use this product near OFDM equipment. Do not use this product near QAM equipment. Do not use this product near PSK equipment. Do not use this product near BPSK equipment. 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# Features

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# Contents

Ultra-efficient 120W Class-D amplifier

8" Custom high-output woofer

1" Neodymium compression driver

Removable lithium-ion battery (included)

Tri-color battery life indicator

Up to 6 hours of battery life

Bluetooth® connectivity for music streaming

Link to a second 8" battery loudspeaker via Bluetooth for music playback and control

2-channel digital mixer with XLR thru output

ECHO MODE prevents nasty squeals and unwanted rumble

4 application-specific speaker modes

Music Ducking mode automatically lowers Ch.2 level when Ch.1 receives signal

Indoor / Outdoor voicing modes

Smart input and thermal limiters

Durable, lightweight molded enclosure

45-degree monitor angle

Built-in pole mount

Rugged powder coated steel grille

Weight: 8.25 kg

Dimensions (H x W x D): 457 x 230 x 285 mm

## Introduction

So, you need the sound of a powerful, professional loudspeaker with the portability of a boom box? Meet ; the take-it-anywhere, Bluetooth® equipped, ultra-flexible, battery-powered loudspeaker.

Built to make your life a whole lot easier, offers lightning-fast setup and simple-yet-powerful sound processing, plus flexible inputs, Bluetooth® streaming.

Most importantly, the 8"battery loudspeaker will amplify the real you with clear, punchy, and accurate sound wherever you call your stage. Take the performance of the renowned the 8"battery loudspeaker anywhere, with the the 8"battery loudspeaker Portable Battery-Powered Loudspeaker.

## Getting Started

The following steps will help you set up the 8"battery loudspeaker quickly.

1. Make all initial connections with the power switches OFF on all equipment. Make sure the master volume, level and gain controls are all the way down.
2. If not using a subwoofer, connect the outputs from the mixing console (or other signal source) to the inputs on the rear panel of the loudspeakers.
3. If using a subwoofer, connect the outputs from the mixing console (or other signal source) to the inputs on the subwoofer, then connect the high pass outputs from the subwoofer to the inputs of the loudspeakers.
4. Push the line cord securely into the subwoofer's / loudspeaker's IEC connectors and plug the other ends into grounded AC outlets. The subwoofer/loudspeaker may accept the appropriate voltage as indicated near the IEC connector.
5. Turn the mixer (or other signal source) on.
6. Turn the subwoofer on (if applicable).
7. Turn the loudspeakers on.
8. Make sure the loudspeaker's channel gain knob(s) are set to mic or line.
9. Be sure that the volume of the input is the same as it would be during normal use.
10. Start the signal source and raise the mixer's main L/R fader up to a comfortably loud listening level.

## How to Use This Manual:

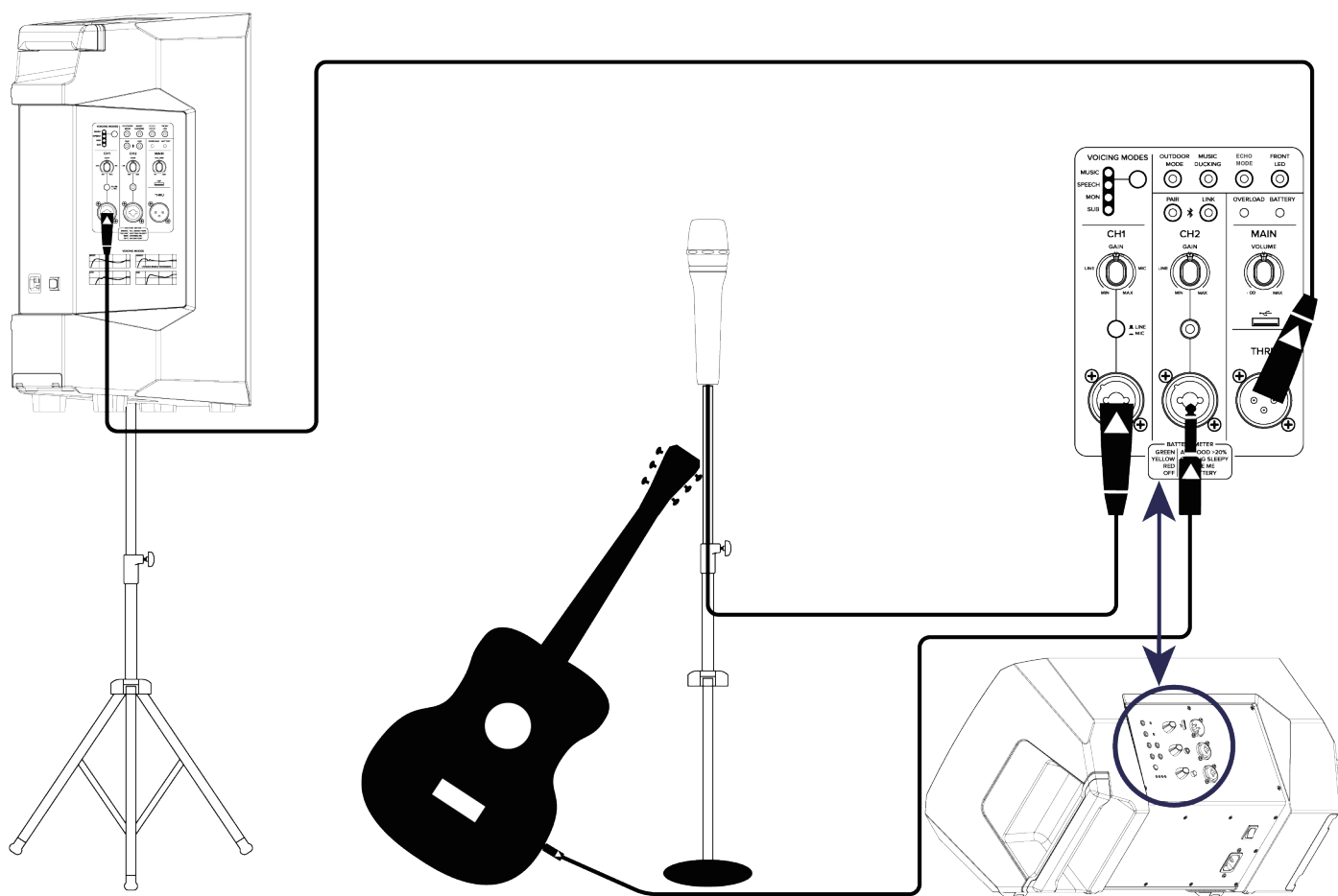
After this introduction, a getting started guide will help you get things set up fast. The hookup diagrams show some typical loudspeaker setups, including some that involve the 18S subwoofer.

## Things to Remember:

- Never listen to loud music for prolonged periods.
- As a general guide, the mixer (or other signal source) should be turned on first, subwoofers next, and the 8"battery loudspeaker last. As such, the 8"battery loudspeaker should also be turned off first, followed by the subwoofers, then the mixer. This will reduce the possibility of any turn-on or turn-off thumps and other noises generated by any upstream equipment from coming out of the speakers.
- Save the shipping boxes and packing materials! You may need them someday. Besides, the cats will love playing in them and jumping out at you unexpectedly. Remember to pretend like you are surprised!
- Save your sales receipt in a safe place.



# Hookup Diagrams



the 8"battery loudspeaker are the perfect tool for singer-songwriters touring the local coffee shops. Bring your favorite axe and mic, This 8" portable battery-powered loudspeaker and cables and power cords.

In this example, a microphone is connected to the channel 1 input of the 8"battery loudspeaker , used for monitoring purposes. The gain knob should be set to mic and the mic/line switch engaged (mic).

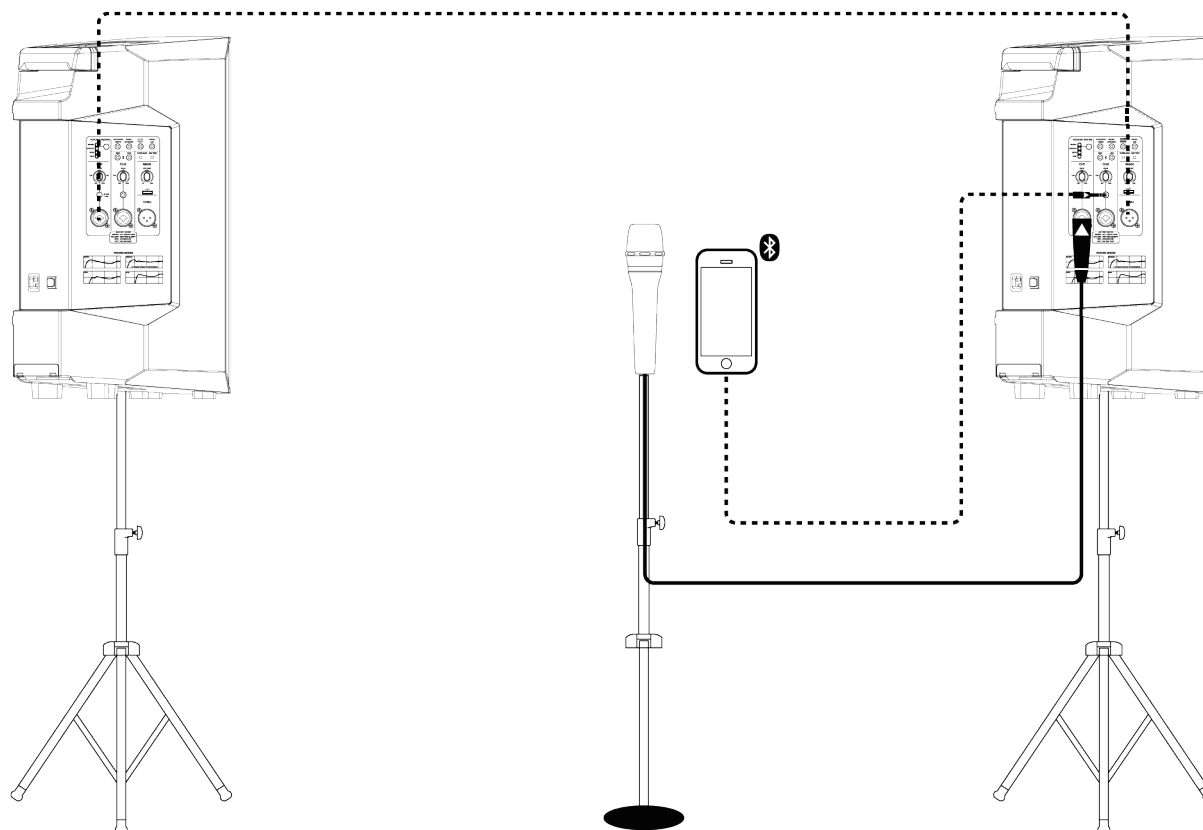
Now grab your axe and plug it directly into the channel 2 input. Or if you use effects, connect the guitar to the effects input and another cable from the effects output to the channel 2 input. The gain knob should be set to line and the mic/line switch disengaged (line).

Another the 8"battery loudspeaker will be used for the main PA. Simply connect a cable from the 8"battery loudspeaker monitor's THRU jack to the PA's channel 1 input.

For the output, you will want to set a voicing mode, described in detail on page 10-11. For this type of setup, 'Music' works well for the main. the 8"battery loudspeakerSelect the 'Monitor' mode for the the 8"battery loudspeaker monitor.

## Singer-Songwriter Setup

## Hookup Diagrams continued...



This 8"battery loudspeaker portable battery-powered loudspeaker is great for house parties, BBQs, karaoke competitions and picnics, too!

In this example, we connected a microphone to the channel 1 input of a 8"battery loudspeaker. The gain knob should be set to mic and the mic/line switch engaged (mic). Additionally, a phone is connected to channel 2's 1/8" input for music playback. The gain knob of this input should be set to line. The volume of the phone should be up, as well.

Another 8"battery loudspeaker will be used for extra "punch". Simply connect a cable from the first 8"battery loudspeaker THRU jack to the other 8"battery loudspeaker channel 1 input. The gain knob of this input should be set to line.

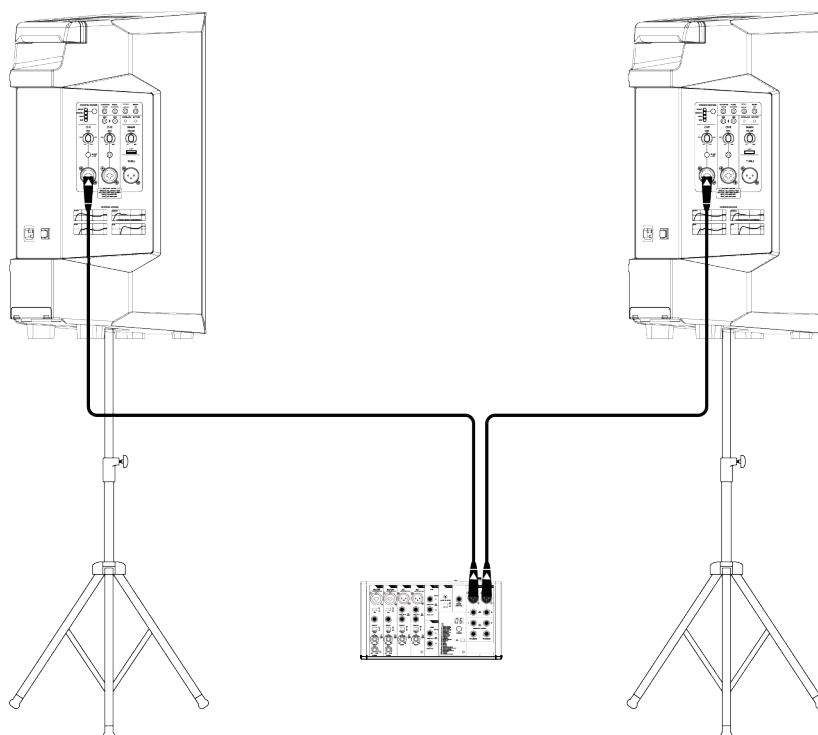
For the output, you will want to set a voicing mode, described in detail on page 10-11. For this type of setup, 'Music' works well for both 8"battery loudspeakers.

But wait, there's more! The 8"battery loudspeaker have three additional features that are worth discussing here: Outdoor Mode, Music Ducking and Echo mode. Outdoor Mode may be engaged if one (or both) loudspeakers are outside. Music Ducking should be engaged if someone will be speaking while music is playing in the background. It should not be engaged during a karaoke battle royale, though. Lastly, it's always a good idea to engage the Echo mode. More information about all of these features (and then some) may be found on the following pages.

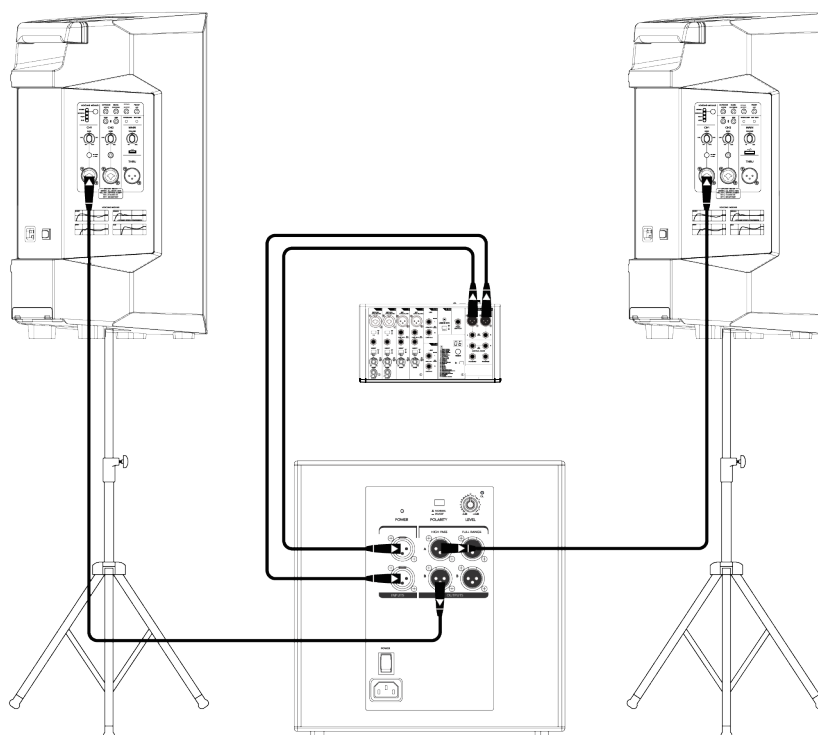
House Parties / BBQ / Karaoke / Picnic System

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## Hookup Diagrams continued...



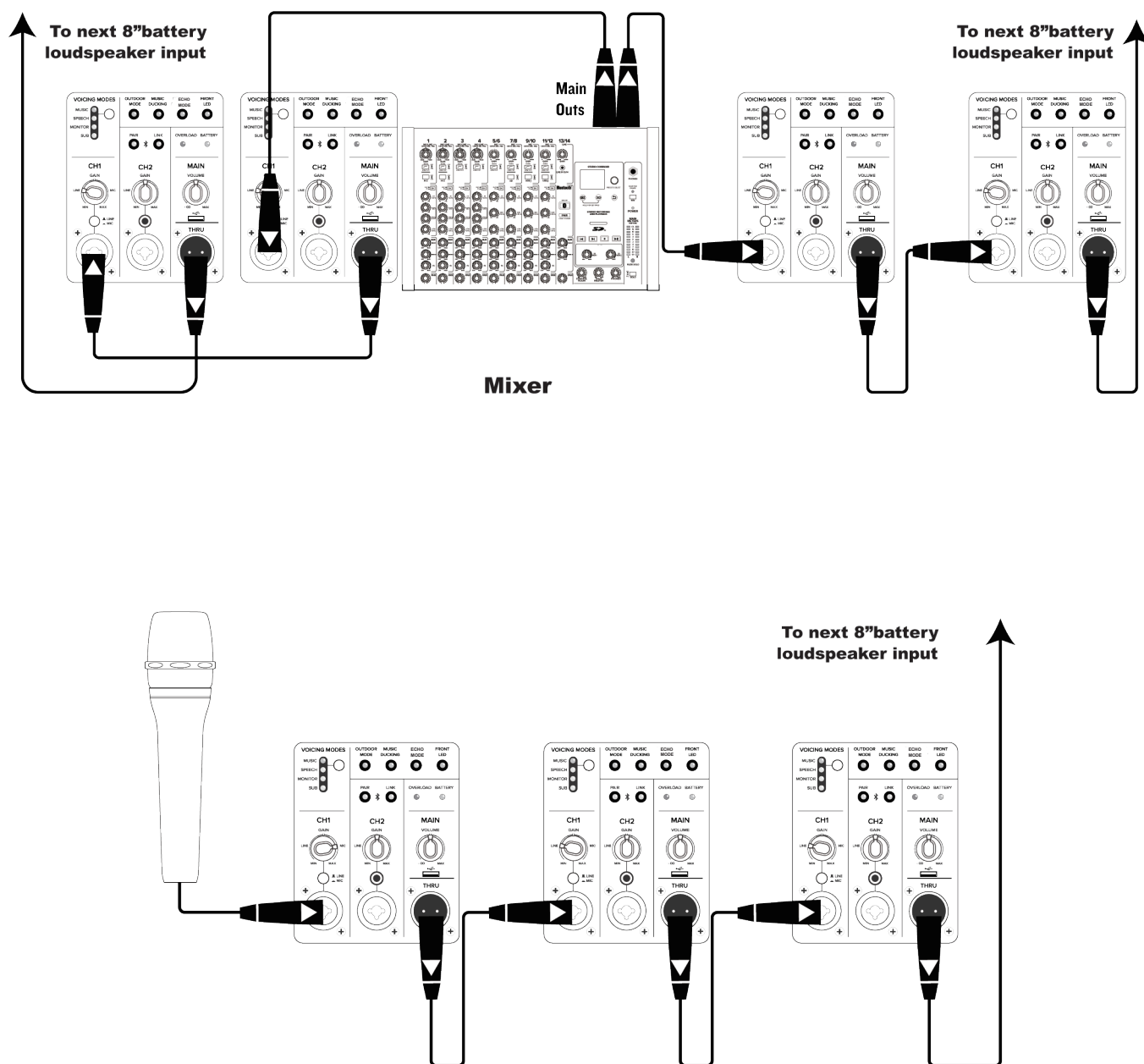
In this example, a mixer is connected directly to two 8" battery loudspeakers. It is the perfect setup for a small club. Simply connect the L/R outputs of the mixer to the channel 1 input of each 8" battery loudspeaker. The gain knob on both should be set to Line. Don't forget to set the Voicing Mode on both loudspeakers to 'Music'!



If you desire a little more boom, add a 18S subwoofer to the mix. Here, the L/R outputs of a mixer are connected directly to the channel A and B inputs of the 18S subwoofer. Then the High-Pass Outs of the subwoofer are connected to the channel 1 inputs of a pair of the 8" battery loudspeaker. The gain knob on both should be set to Line. Here you will want to set the Voicing Mode to 'Music'.

### Small Club System

## Hookup Diagrams continued...



This 8" portable battery-powered loudspeaker may be daisy-chained via the male XLR connector labeled "THRU". Simply plug the signal source (i.e., mixer output or microphone) into the input jack(s), and patch that loudspeaker's thru jack to the next loudspeaker's input jack, and so on, daisy-chaining multiple 8" battery loudspeaker. See above for visual representations of daisy-chaining.

**NOTE:** Make sure to set the gain knob(s) correctly. In the top diagram, all input channels are set to "LINE" and in the bottom diagram, input channel 1 of the first 8" battery loudspeaker is set to "MIC", but the remaining ones should be set to "LINE". Keep in mind that these "MIC" and "LINE" markings are for reference only and may need to be raised or lower.

Daisy-Chaining Multiple 8" portable battery-powered loudspeaker

# Rear Panel Features

## 1. Power Connection

This is a standard 3-prong IEC power connector. Connect the detachable power cord (included in the packaging ) to the power receptacle, and plug the other end of the power cord into an AC outlet.



Make sure that the AC power is matched to the AC power indicated on the rear panel (near the IEC receptacle).



Disconnecting the plug's ground pin is dangerous. Don't do it!

## 2. Power Switch

Press the right side of this rocker switch inwards to turn on the 8"battery loudspeaker. Press the left side of this rocker switch inwards to turn off the 8"battery loudspeaker



As a general guide, the mixer (or other signal source) should be turned on first, subwoofers next, and loudspeakers last.

As such, the loudspeakers should also be turned off first, followed by the subwoofers, then the mixer. This will reduce the possibility of any turn-on or turn-off thumps and other noises generated by any upstream equipment from coming out of the speakers.

## 3. XLR and 1/4" Combo Input Jacks

Input channels 1 and 2 may accept a balanced XLR connector. Both channels accept line-level inputs, but only channel 1 accepts a mic. They are wired as follows, according to standards specified by the AES (Audio Engineering Society).

## 4. 1/8" Input Jack [Ch. 2]

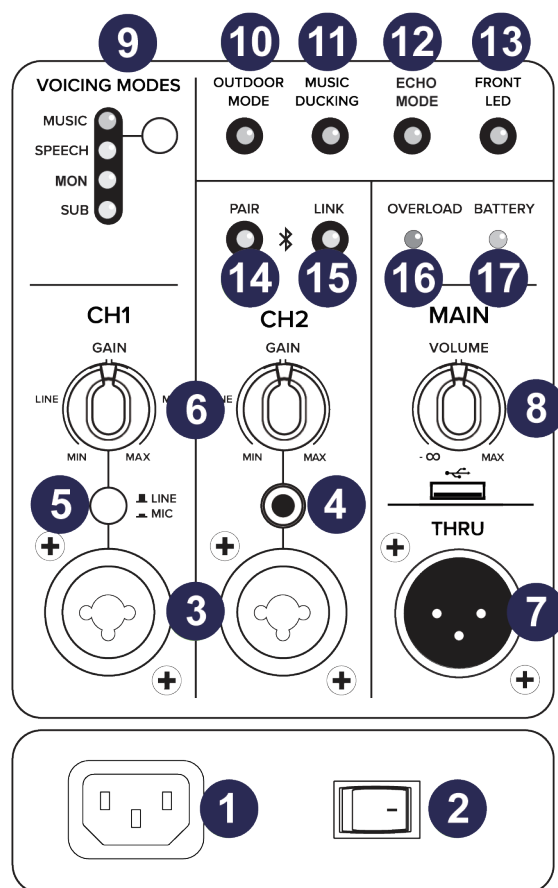
This input channel may accept an 1/8" line-level signal from a phone, tablet, MP3 player, or other signal source.



NEVER connect the output of an amplifier directly to a 8"battery loudspeaker input jack. This could damage the input circuitry.



The 1/8" line-level connection may be used simultaneously with channel 2's combo jack – XLR or 1/4" – and/or Bluetooth connection. In other words, if there is a physical connection to the 1/8" line input, another physical connection to the combo jack AND a device is connected via Bluetooth, none of those inputs will be interrupted. An easy way to look at it is... there are extra inputs! The 1/8" line-level connection and XLR (or 1/4") connection sum together and do not override each other.



NEVER connect the output of an amplifier directly to the 8"battery loudspeaker input jack. This could damage the input circuitry



## 5. Mic / Line Switch [Ch. 1]

Because an XLR connector may be connected to a mic or an instrument, this switch adjusts the channel's input sensitivity to optimize channel 1 for mic or line-level signals. If a mic is connected, this switch should be engaged and the gain knob – more below – set to mic. If an instrument is connected to channel 1 (via XLR), this switch should be disengaged and the gain knob set to line.

## 6. Gain Knobs [Ch. 1 and 2]

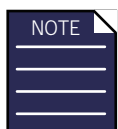
If you haven't already, please read the "Quick Start" section on page 4. Setting the gain correctly will ensure that the preamplifier's gain is not too high, where distortion could occur, and not too low, where the quieter, exquisitely-delicate passages might be lost in background noise.

The gain knobs – in conjunction with the overload LED – adjust the input sensitivity of the mic [Ch. 1] and line inputs. This allows signals from the outside world to be adjusted to run through each channel at optimal internal operating levels.

If the signal originates through the mic XLR jack, there will be 0 dB of gain with the knob fully down, ramping to 40 dB of gain fully up, with unity gain "U" at 12:00.



If connecting mixer outputs to inputs, set the gain knobs to 9:00 ["LINE"] for optimal sound and performance.



Keep in mind that these "MIC" and "LINE" markings are for reference only and may need to be raised or lower

## 7. Thru Jack

This is a balanced male XLR-type connector that produces a mono-summed pre-DSP mix from all input jacks. It is not affected by the main volume. Use it to connect an additional or subwoofer off of the same signal source.

It is wired as follows, according to standards specified by the AES (Audio Engineering Society):

Balanced XLR Output Connector

**Pin 1 – Shield (ground)**

**Pin 2 – Positive (+ or hot)**

**Pin 3 – Negative (– or cold)**

## 8. Main Knob

The level knob adjusts the overall signal level at the input to the built-in power amplifiers. It ranges from – (off, knob fully down) up to max (+6 dB, knob fully up), with unity gain at the center position (12 o'clock).

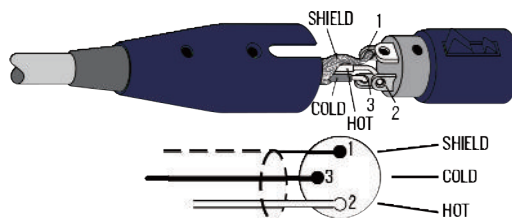
- The 8" battery loudspeaker is designed to operate with a +4 dBu average line signal when the main knob and the line input gain are at the center position (unity).
- The 8" battery loudspeaker may accept up to a +20 dBu line signal by turning down the line input gain accordingly (with the Ch. 1 mic / line switch disengaged – line). If the overload LED illuminates, slowly turn down the input gain until the warning disappears.
- If the Ch. 1 mic / line switch is engaged [mic], turning up the channel 1 gain knob will provide enough gain to connect a microphone directly. Start with the main at the center position, and don't be afraid to crank the channel 1 mic gain.

## 9. Voicing Modes

The voicing mode allows you to change the 8" battery loudspeaker voicing to tailor it to best suit your particular application. Press the voicing mode button repeatedly until the LED of the voicing mode you desire is illuminated.

The four speaker modes are as follows:

- **MUSIC Voicing Mode** – This mode is full range, but focuses on increased bass and brilliant high frequencies. This is the place to start for most DJ / music playback applications.
- **SPEECH Voicing Mode** – This mode features a significant low frequency roll-off to attenuate low-end vocal boom. It also adds boost to high frequencies – critical for speech intelligibility – and notches part of the spectrum where feedback squeal commonly lives. Additionally, a dedicated compressor engages in this mode to help control the aggressive dynamics generated by speech. This process chain is perfect for applications where highly amplified, intelligible speech is the desired output.

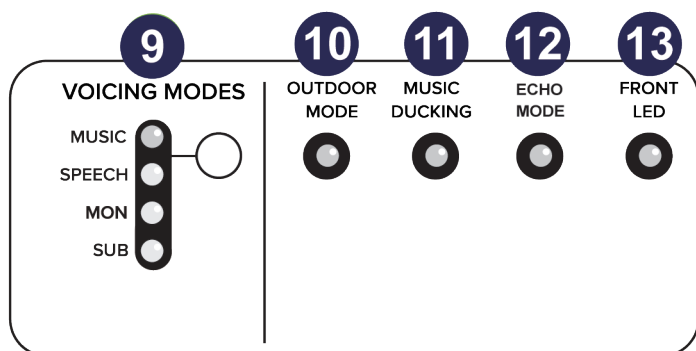


## Rear Panel Features continued...

• **MONITOR Voicing Mode** – Monitor mode was tailored to reduce excess low frequency output when coupled with the ground, while also reducing mid-range bite for the artist(s).

**NOTE** This mode should only be engaged when the speaker is in its monitor orientation on a stage or floor... if not, the low-end will sound very lean.

• **SUB Voicing Mode** – This mode rolls off a little bit of the low end so you get approximately 3 dB of extra output from the 8" battery loudspeaker. If you are also using the 8" battery loudspeaker to high-pass the signal to be sent to a subwoofer – instead of using the high-pass out of a subwoofer – then you can use this mode in place of 'Music' mode to benefit from the extra output.



### 10. Outdoor Mode

Regarding outdoor mode... in a sentence, choose whether you are using the 8" battery loudspeaker inside or outside. The speaker's voicing is altered to the environment. That's all you need to know, but we're going to give you more!

When speakers are outside, a combination of low and high frequencies don't build up the way they do inside. The 8" battery loudspeaker corrects for that by boosting the frequency ranges that become deficient so the speaker sounds the same outside as when it's inside. You make the selection, we'll do the rest!

The outdoor mode LED will illuminate green when engaged (outdoors).

### 11. Music Ducking

Have you been to an event where music was playing, then when someone spoke into the mic, that the music volume decreased greatly (but was still there)? That's called "music ducking"!

When the music ducking switch is engaged, the channel 2 level will decrease when a mic signal is present on channel 1. Additionally, the LED will illuminate green. As if by magic, once the speaking is completed, the music will return back to its previous level. True wizards, those engineers... and none of them have long grey beards, robes and pointy hats.

**NOTE** The audio nerds out there might like to know that the channel 2 level decreases by 15 dB when a mic signal is present in channel 1 (and when auto-ducking is engaged, of course).

### 12. Echo Mode

The multi-band ECHO MODE hunts down offending feedback frequencies and applies up to six notch filters automatically to destroy feedback and maximize gain prior to feedback. This is a great tool for when an engineer is not present.

- **Off [Default]** – The ECHO MODE is not engaged. If filters have been applied, this setting will retain its current filter settings if there are any, but they will not be engaged until it is turned back on.
- **On** – When the automatic ECHO MODE is turned on, scanning occurs continuously. The six filters will engage sequentially when feedback is present until all are used and then it will be locked. If feedback is identified on an existing filter, the notch will deepen in three steps to further destroy the offending feedback frequency. Pretty cool, huh?! The LED will illuminate green when engaged.

### 13. Front LED

There is a single horizontal LED bar located near the bottom-front of each 8" battery loudspeaker. This LED illuminates blue when the front LED switch is engaged. Additionally, the switch's LED will illuminate blue. Disengage the switch if you do not want the front panel LED to illuminate. We like to call this 'stealth' mode.



An important note regarding the LED on the front of your. When is powered off (but still plugged in), the LED functions as the battery charging level indicator. The front LED will slow-flash blue in increments of 700 ms (700ms on / 700 ms off). Once fully charged, the LED will stay illuminated blue (no flash).

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8" Portable Battery-Powered Loudspeaker

## 14. Bluetooth / Pair

While not a "physical" connection, stereo channel 3/4 is considered the Bluetooth channel and its volume is raised and lowered via the device.

This is how to connect your device to the 8"battery loudspeaker via Bluetooth! Read on...

Upon powering up the 8"battery loudspeaker, the Bluetoothfunction is either:

(1) In sleep mode. See 'Pairing and connecting for the first time' (below) or...

(2) ...Paired and connected. See 'Previously paired and connected devices' (also below).

### **Pairing and connecting for the first time:**

To enter pairing mode, press and hold the pair switch down for at least three seconds. The LED will illuminate and slow flash blue for approximately 30 seconds while in pairing mode. [The LED will continue to flash until it has successfully paired and connected]. While the 8"battery loudspeaker in pairing mode, simultaneously scan for Bluetooth devices on your device. You should see the 8"battery loudspeaker appear in the list of "available devices".Select it by tapping it. From there, your Bluetooth device should indicate that it is successfully connected. Additionally, the pair button will stop flashing and remain solid blue. If it does not, start the pairing process again, and make sure that 8"battery loudspeakerand your device are both in pairing mode at the same time.

### **Previously paired and connected devices:**

The Bluetooth connection will disconnect if it's out of range or if the 8"battery loudspeaker powered off. Previously paired and connected devices will automatically reconnect and the pair button will once again illuminate a brilliant blue.

**NOTE** To drop the device from being paired with,the 8"battery loudspeaker press and hold the 'Bluetooth Pair' button down for at least three seconds.

**AS A CLOSER LOOK** As mentioned earlier, a Bluetooth connection may be used simultaneously with the combojacks – XLR or 1/4" – and/or 1/8" line-level connection. In other words, if there is a physicalconnection to the 1/8" line input, another physical connection to the combo jack AND a device is connected via Bluetooth, none of those inputs will be interrupted. An easy way to look at it is...there are extra inputs!

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## 15. Speaker Link

Two 8"battery loudspeakers may either be linked together or separate (i.e. not linked).

### **To link:**

In order to link two 8"battery loudspeakers, press and hold the 'Link' momentary switch / LED down on the primary 8"battery loudspeaker until the blue LED illuminates and begins slow-flashing.

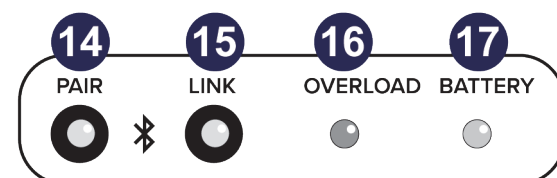
Within (approximately) 30 seconds, a quick press and release of the 'Link' button on the secondary 8"battery loudspeaker allows both units to "see" each other,handshake and link. The LEDs on both units will stop flashing and remain solid, indicating great success!.

**NOTE** The 8"battery loudspeaker will continueto auto-link on every power-up

### **To unlink:**

In order to unlink the two 8"battery loudspeakers,press and hold the 'Link' momentary switch / LED down on one of the 8"battery loudspeaker until the blue LED turns off. The other 8"battery loudspeaker will automatically unlink and the LEDs on both units will turn off.

**VERY IMPORTANT** If a phone – or two different phones – havebeen paired via Bluetooth with two 8"battery loudspeakers, they will not link. The options are either (1) one phone connected via Bluetooth and 8"battery loudspeaker may be linked or (2) two phones connected via Bluetooth to two different 8"battery loudspeakers and they may be not be linked.



## Rear Panel Features continued...

### 16. Overload LED

The 8" battery loudspeaker has a built-in limiter that helps to prevent the amplifier outputs from clipping or overdriving the transducers. The limit indicator illuminates red when the limiter is activated. It's okay for it to blink occasionally, but if it blinks frequently or lights continuously, turn down the gain knob(s) until it only blinks occasionally.



Excessive limiting may lead to overheating, which in turn trips the thermal protect circuitry and interrupts the performance.

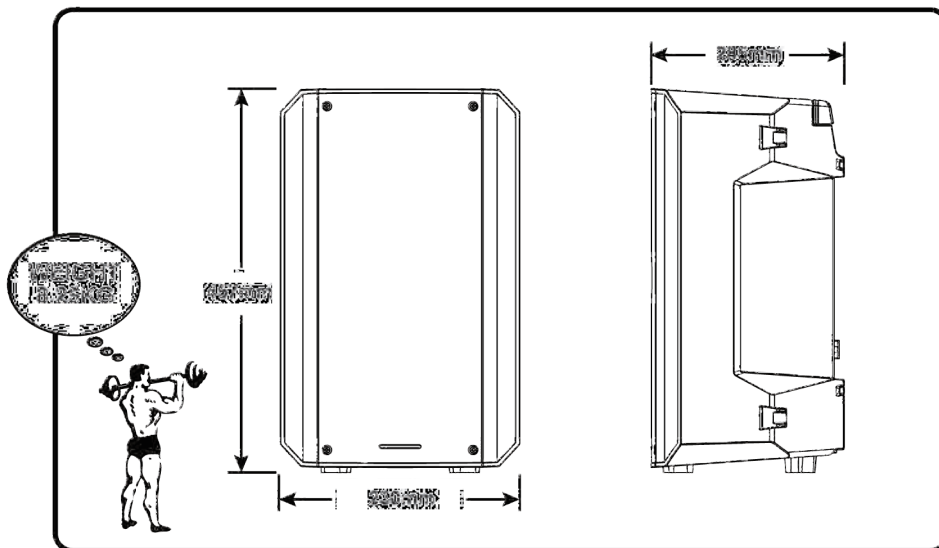
### 17. Battery LED

This tri-colored LED displays the remaining battery life. The battery life meter is silkscreened on the rear panel just below the channel 2 combo jack. The percentages are also listed below:

- Green = 20% – 100% battery life remaining
- Yellow = 5% – 20% battery life remaining
- Red = less than 5% battery life remaining
- No LED = No battery detected



## Dimensions



## Battery Replacement

The Lithium-Ion Battery allows you to use without the need to be plugged in or wasting money on expensive batteries.



**SAFETY FIRST:** Before installing and using this product, please read these instructions carefully. Failure to follow the precautions may result in damage, injury, or even death.

**1. WARNING:** The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.

**2. CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

**3. No open flame sources, such as lighted candles, should be placed on the apparatus.**

**WARNING:** When installing this product, always respect the safety standard. Do not install the product in any way that is not described in these instructions.

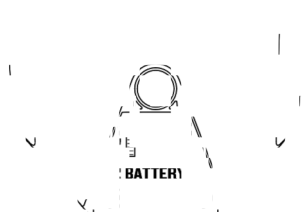
## BATTERY / COVER REMOVAL INSTRUCTIONS:

Unplug and set it upside down on a soft, flat surface.

Using a flathead or Phillips screwdriver, rotate the four screws. Remove the battery compartment cover and set it aside.



As seen below, the removable battery is surrounded by the dotted line.



There are finger grips on each side of the battery, close to where the "battery" text is located. Remove the battery from captivity by lifting it straight up to freedom.

## BATTERY INSTALLATION INSTRUCTIONS

Once the battery cover and battery have been removed and set aside, it's time to insert a different one.



**NOTE:** Do not force the battery into place. There is only one way it fits and there should be no resistance during installation.

## Placement



**WARNING:** Installation should only be done by an experienced technician. Improper installation may result in damage to the equipment, injury or – while highly unlikely – death. Make sure that is installed in a stable and secure way in order to avoid any conditions that may be dangerous for persons or structures.

The 8" battery loudspeaker is designed to sit on the floor or stage as the main PA or as monitors. They may also be pole-mounted via the built-in socket on the bottom of the cabinet. Be sure the pole is capable of supporting the weight of the loudspeaker.



The 8" battery loudspeaker does not have any fly points and may NOT be flown. NEVER attempt to suspend a 8" battery loudspeaker by its handles.

Check to make sure that the support surface (e.g. floor, etc.) has the necessary mechanical characteristics to support the weight of the loudspeaker(s).

When pole-mounting loudspeakers, be sure that they are stabilized and secured from falling over or being accidentally pushed over. Failure to follow these precautions may result in damage to the equipment, personal injury, or death.

The 8" battery loudspeaker may also be laid out horizontally as monitors for the band at a 45° angle (as seen below). It is intended to be used only when the speaker is in its wedge configuration and works best when on a hard work surface, like a stage.



As with any powered components, protect them from moisture. Avoid installing the loudspeaker in places exposed to harsh weather conditions. If you are setting them up outdoors, make sure they are under cover if you expect rain.



## Appendix A: Service Information

### the 8"battery loudspeaker

If you think your 8"battery loudspeaker has a problem, please check out the following troubleshooting tips and do your best to confirm the problem. Visit the Support section of our website where you will find lots of useful information such as FAQs and other documentation. You may find the answer to the problem without having to part with your 8"battery loudspeaker.

## Troubleshooting

### No power

- Our favorite question: Is it plugged in? Make sure the AC outlet is live [check with a tester or lamp].
- Our next favorite question: Is the power switch on? If not, try turning it on.
- Make sure the line cord is securely seated in the line cord socket and plugged all the way into the AC outlet.
- Is the power LED on the front panel illuminated? If not, make sure the AC outlet is live. If so, refer to "No sound" below.
- The internal AC line fuse may be blown. This is not a user serviceable part. If you suspect the AC line fuse is blown, please see the "Repair" section next.

### No sound

- Is the level knob for the input source turned all the way down? Verify that all the volume controls in the system are properly adjusted. Look at the level meter to ensure that the mixer is receiving a signal.
- Is the signal source working? Make sure the connecting cables are in good repair and securely connected at both ends. Make sure the output level control on the mixing console is turned up sufficiently to drive the inputs of the speaker.
- Make sure the mixer does not have a mute on or a processor loop engaged. If you find something like this, make sure the level is turned down before disengaging the offending switch.
- Has it shut down? Make sure there is at least six inches of free space behind each 8"battery loudspeaker

### No sound

- Is it loud and distorted? Make sure that you're not overdriving a stage in the signal chain. Verify that all level controls are set properly.
- Is the input connector plugged completely into the jack? Be sure all connections are secure.

- Are there phasing issues? The signal source should only be connected to a single input. For example, do not connect the L/R outputs from a mixer to the 8"battery loudspeaker channel 1 and 2 inputs.

Do not use a Y cable to split a phone's signal, use both outputs of a stereo synth (which sums to mono, anyway), etc.

### Noise

- Make sure all connections to the 8"battery loudspeaker are good and sound.
- Make sure none of the signal cables are routed near AC cables, power transformers, or other EMI-inducing devices.
- Is there a light dimmer or other SCR-based device on the same AC circuit as 8"battery loudspeaker? Use an AC line filter or plug the loudspeaker into a different AC circuit.

### Hum

- Try disconnecting the cable connected to the input jack. If the noise disappears, it could be a "ground loop," rather than a problem. The 8"battery loudspeaker Try some of the following troubleshooting ideas:
  - Use balanced connections throughout your system for the best noise rejection.
  - Whenever possible, plug all the audio equipment's line cords into outlets which share a common ground. The distance between the outlets and the common ground should be as short as possible.

### Bluetooth / Linking Issues

- Sometimes a good 'ol fashioned reset works wonders. There are two types, soft and hard.
- Try linking two 8"battery loudspeakers together prior to connecting via Bluetooth.
- Be sure to connect the Bluetooth device to the primary 8"battery loudspeaker.

# Appendix B: Technical Information

## Specifications

### Acoustic Performance

Frequency Range (–10 dB)	50 Hz – 20 kHz
Frequency Range (–3 dB)	57 Hz – 20 kHz
Horizontal Coverage Angle	90°
Vertical Coverage Angle	60°
Maximum SPL Peak	115 dB
Monitor Angle	45°

### Transducers

Low Frequency	8 in / 203 mm with ferrite
High Frequency	1.0 in / 25 mm polymer compression driver

### Power Amplifiers

System Power Amplification	
RMS Power	120 watts
Low Frequency Power Amplifier	
RMS Power	100 watts peak
Rated THD	< 1%
Cooling	Convection
Design	Class D
High Frequency Power Amplifier	
RMS Power	20 watts peak
Rated THD	< 1%
Cooling	Convection
Design	Class D

### System Processing

Voicing	Four speaker modes
---------	--------------------

### Input/Output

Input Type	2x Female XLR & 1/4" Balanced TRS combo jack • 1/8" TRS • Bluetooth
Mic-Line Impedance	20 k balanced
1/4" TRS / XLR	20 k balanced
Output Type	Male XLR Balanced [Thru]
Thru Impedance	150 balanced

### Electronic Crossover

Crossover Type	24 dB/octave
Crossover Frequency	2.2 kHz

### Line Input Power

Detachable line cord	100 – 240 VAC, 50 – 60 Hz, 75W
AC Connector	3-pin IEC 250 VAC, 10 A male
Power Supply Type	Switchmode

### Safety Features

Input Protection	Peak and RMS limiting, power supply and amplifier thermal protection
Display LEDs	Voicing Mode, Outdoor Mode, Music Ducking, Echo Mode, Front LED, Blue-tooth Status, Link Status, Overload, Battery Level

### Battery Information

Battery Type	Lithium Ion
Battery Life	Up to 12 hours
Charge Time	3 hours (no signal) 4 hours (with signal)
Capacity	5200 mAh
Nominal Voltage	19 V

### Construction Features

Basic Design	Asymmetrical
Enclosure Material	Polypropylene
Enclosure Finish	Black, textured finish
Grille Material	Perforated metal w/weather-resistant coating
Grille Finish	Powder-coated black
Handles	One
Operating Temperature	0 – 40 °C // 32 – 104 °F

### Construction Features

Height	457 mm
Width	230 mm
Depth	285 mm
Weight	8.25 kg

### Mounting Methods:

Floor mount or pole mount via the built-in socket on the bottom of the cabinet [Be sure the pole is capable of supporting the weight ].

They are NOT designed to be suspended. The cabinet has no rigging points and is not suitable for rigging. Never attempt to suspend by its handle.

**Factory address:**Jagtvej 153,2032200 Copenhagen,Denmark  
**UK Sales Office address:**128 City Road, London, United Kingdom,EC1V 2NX +44 2039088010



[www.nordlyslight.com](http://www.nordlyslight.com)