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# LITHEAUDIO®

Bluetooth® 4" CEILING SPEAKER

INSTRUCTION MANUAL

MODEL: LBT4

SUPPORT VIDEOS & TO REGISTER YOUR SPEAKER:

[SUPPORT.LITHEAUDIO.COM](http://SUPPORT.LITHEAUDIO.COM)



SCAN ME

# INSTALLATION WARNING

Before commencing any electrical work to avoid the risk of electric shock locate and remove fuse or lock circuit breaker in the **POWER OFF** position before proceeding. Test the power is OFF before wiring. Wiring with the power on can result in serious personal injury, fire and death.

**WARNING:** If you are unsure about any part of these instructions, please consult an electrician.  
**IMPORTANT NOTES CODES:** Before use please read completely the safety instructions and installed and/or used in accordance with all local and national electrical codes and regulations or latest edition of IEE regulations (BS 7671) in the UK.

**BREAKER:** Proper short-circuit and overload protection must be provided at the distribution panel. Up to a 10 A maximum circuit breaker/MCB may be used (with adequate short-circuit breaking capacity for your installation) if used in conjunction with lighting circuit, OR dedicated circuit for speakers, a 3 A maximum circuit breaker/MCB may be used.

If the unit is to be used as a replacement for an existing product, remove the existing unit from its location and disconnect the wiring. Connect the wires correctly in the power driver. Ensure terminals are properly tightened and ensure no bare wires are visible. When fitting the speaker into the ceiling, ensure no wires are trapped

**NOTE:** To meet US local and national NEC code, for these types of installations you will need contact your local contractor for installation. Please visit [support.litheaudio.com](http://support.litheaudio.com) for latest installation guides/updates.

## READ THE INSTRUCTIONS CAREFULLY BEFORE STARTING THE INSTALLATION PROCESS AND KEEP THEM SAFE FOR FUTURE REFERENCE.

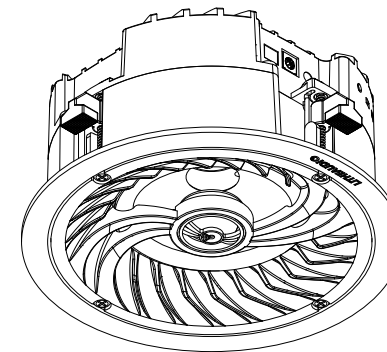
- Failure to follow the instructions in this guide voids all warranties on your speakers.
- Warning: Do not use the product in water.
- Warning: Do not install speaker directly above any heat sources such as radiators, or other apparatus that produce heat.
- Warning: To reduce the risk of fire or electric shock, do not expose this speaker to rain or moisture (directly above bath or shower area) or in Bathroom Zone 0 or Zone 1.
- Protect the power cable from being damaged, do not over stretch cable.
- Only use attachments/accessories specified by the manufacturer Lithe Audio.
- Turn off the power to the speaker when unused for long periods of time.
- A Fire and Acoustic speaker hood must be used in accordance with local and national electrical codes and regulations. For the UK, building and IEE Regulations with a fire rating of up to 60 minutes, is Parts B, L, C and E compliant.
- Do not open the back cover to the speaker as this protects the PCB, doing so will invalidate the warranty and could cause electric shock.
- Ensure speaker location is free from obstructions such as electrical conduit, HVAC ducts or Water lines.

# BOX CONTENTS

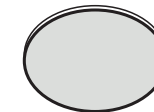
Please ensure you read the entire instruction manual carefully before you commence any work. Carefully unpack the speakers from the packaging. Please check to ensure all the parts shown below are included.

If any parts of the speaker appear damaged, please contact your dealer/reseller immediately or contact [support@litheaudio.com](mailto:support@litheaudio.com) for contact details.

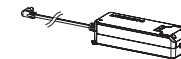
## MODEL LBT4



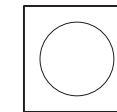
BLUETOOTH CEILING  
SPEAKER



SPEAKER GRILLE

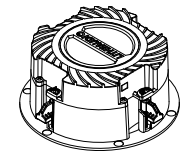


POWER DRIVER



CUTTING GUIDE

## PAIR MODELS ALSO INCLUDE



PASSIVE CEILING SPEAKER



5M SPEAKER CABLE

# PREPARATION EQUIPMENT YOU WILL NEED

Listed below is the hardware equipment needed to install the speaker, with the addition of a ladder to ensure the installation is done safely. A cutting template is included in the box.



PENCIL



STUD FINDER



SCREWDRIVER



CUTTING SAW



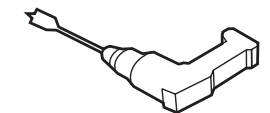
PROTECTIVE EYEWEAR



TAPE



MEASURING TAPE



DRILL



SPEAKER CABLE



WIRE CUTTERS

# KNOW YOUR SPEAKER

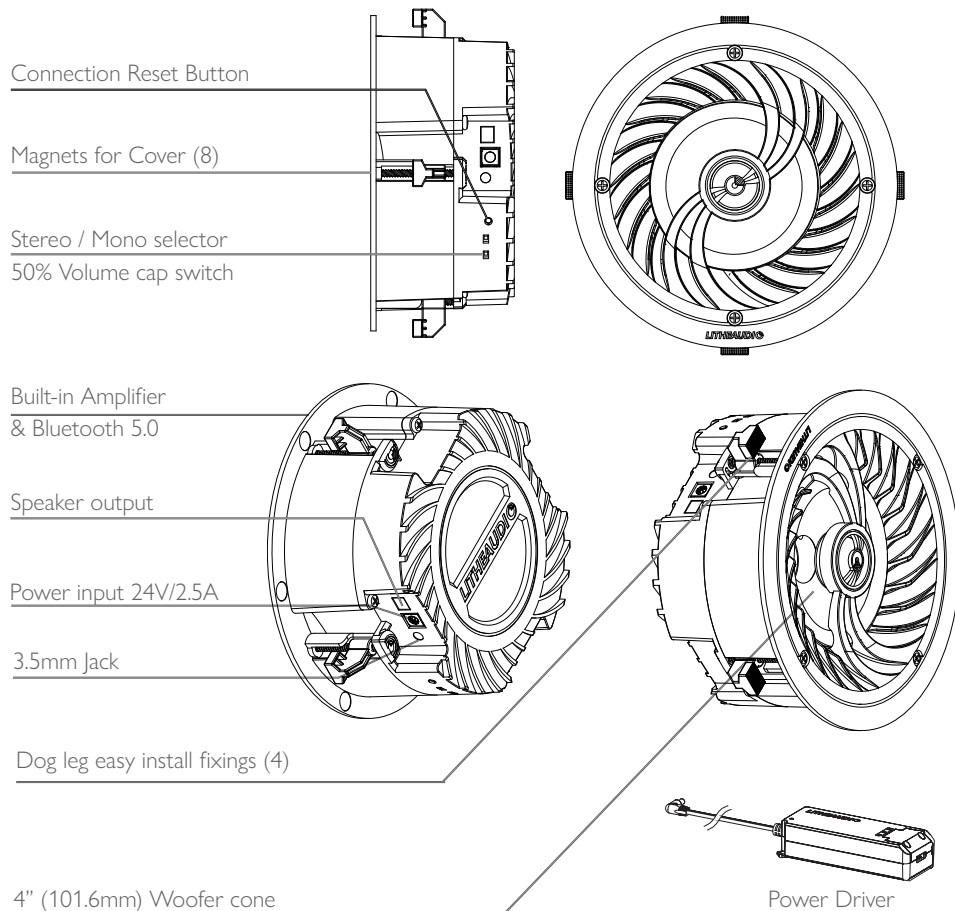
The Lithe Audio LBT4 range of Bluetooth ceiling wireless speakers have various inputs:

**SPEAKER OUTPUT** - To connect one additional passive (Slave) speaker (Phoenix Connector).

**3.5MM JACK INPUTS** - To connect directly from TV Output, Amazon Echo, Projector etc.

**POWER INPUT** - To connect (as supplied) through the power driver.

Requires a in ceiling depth of  
3" (77.5mm)



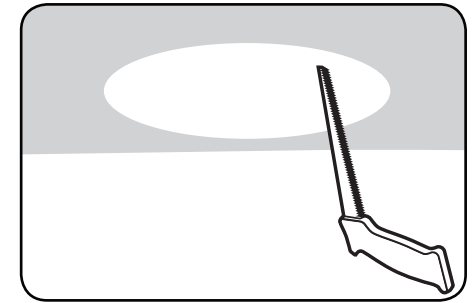
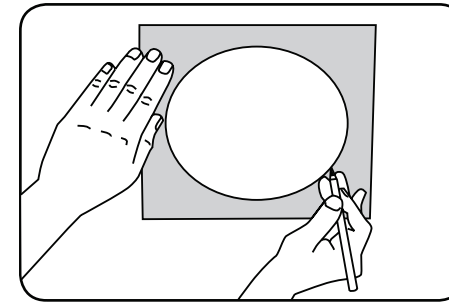
In built over voltage, under voltage, over temperature, and short circuit protection, if there is an electrical fault, the power supply to the amplifier will cut off automatically and restart when the speaker has stabilised.

**LITHEAUDIO**  
BLUETOOTH CEILING SPEAKER

# INSTALLATION

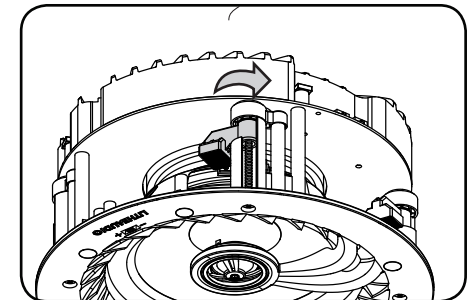
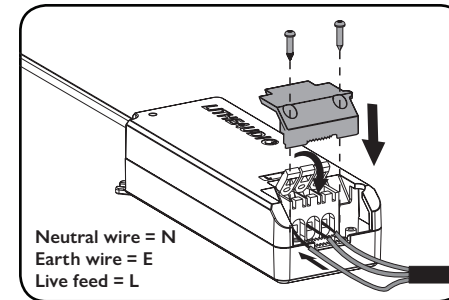
**IMPORTANT: BEFORE COMMENCING ANY ELECTRICAL WORK ENSURE THE SUPPLY IS SWITCHED OFF AT THE MAINS. IF YOU ARE UNSURE HOW TO FIT SEEK HELP FROM A PROFESSIONAL ELECTRICIAN/AV INSTALLER**

1. Mark out the position of the speaker using a, tape measure and mark using a pencil with the template supplied. Check using a stud finder to make sure no obstruction is present prior to cutting.
2. Drill a pilot hole and cut the speaker hole using a cutting saw. **Take caution when cutting to keep fingers away from cutting blade and wear protective eyewear.**



3. Connect a 110V/240V feed into the Power Driver. Check Live, Neutral and Earth cables are in correct terminals. Use fixing holes to screw to joists. Ensure cables are tight and cover is in place.

4. Insert speaker into the ceiling then using a screwdriver lock the 4 dog leg fixings to secure the speaker in place, do not over tighten. Attach the magnetic grille to the speaker front.



## PAINTING THE SPEAKER GRILLE

Do not paint the speaker grilles whilst attached to the speaker. Lithe Audio recommends spray painting using 5 parts thinning agent to 1 part paint. Spray thinly to ensure speaker cover grille holes are not blocked as this will effect the sound quality of the speakers.

## INSTALLATIONS IN FIRE-RATED CEILINGS

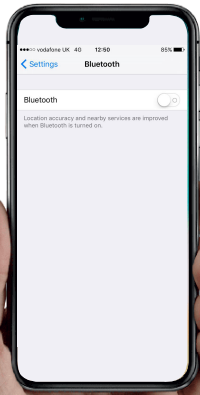
If you plan to mount your speakers in a fire-rated ceiling, you should purchase a fire hood for the speaker. Visit [www.litheaudio.com](http://www.litheaudio.com) for more information and recommended hoods.

# SETUP AND PAIRING

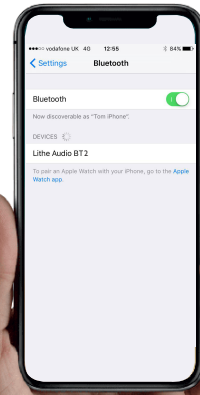
**NOTE: ENSURE THE BLUETOOTH WIRELESS SPEAKER IS CONNECTED TO THE POWER SUPPLY AND TURNED ON.**

The LED indicator will flash Blue when ready to pair; turn solid Blue whilst the device is connected to the speaker and music is playing.

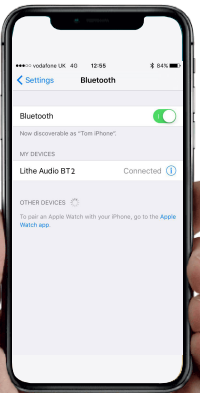
1. Open the setting menu and select Bluetooth



2. Turn on Bluetooth and search devices



3. Click Lithe Audio BT2 to connect and pair to the speaker.



4. Open your phone camera and scan the below QR code to download the Setup App to change speaker name or add a pin:



# BLUETOOTH SETUP APP



Do you have multiple Bluetooth speakers in your home?

Use the Lithe Audio setup App to identify each speaker easily, by giving each zone a unique name and password. Configure the speaker to work with Amazon Alexa, Google home or TV's wirelessly. For more information visit:

[www.litheaudio.com/bluetooth-5-setup-app.html](http://www.litheaudio.com/bluetooth-5-setup-app.html)

# HARD WIRED INPUT - 3.5MM INPUT

To connect other devices that may not have a Bluetooth connection (such as Turn tables, CD players, mp4 player or mini-discs!)

**3.5MM JACK CONNECTION:** To play music via speaker 3.5mm Jack connection connect a 3.5mm Jack cable to the speaker and play through your device. Ensure ALL Bluetooth connections are turned off to be able to play through the speaker.

# PLAYBACK MODES

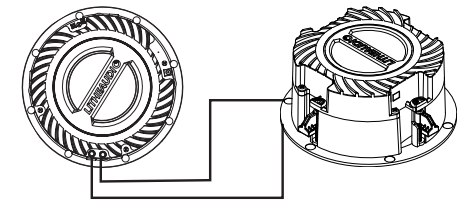
To cycle between the playback modes press the 'Connection Button' under the grill to change the mode between them.

1. AUTOMATIC MODE: RCA is priority, then Bluetooth then Optical.
2. BLUETOOTH ONLY MODE: RCA and Optical are disabled.
3. RCA ONLY MODE: Bluetooth and Optical are disabled.

# ADDITIONAL SPEAKER - OPTIONAL

PLEASE NOTE: LBT1 DOES NOT INCLUDE PASSIVE SPEAKER

The Lithe Audio Master Bluetooth ceiling speaker is able to connect to and power an additional passive speaker via the speaker output (+/-). Use wire cutters to strip the ends of the speaker cable (if required).



This setup is ideal for Kitchen diners or larger rooms where you want a true stereo setup.

## STEREO / MONO SELECTOR

If using a secondary passive speaker you can select if the music is played in Stereo (left and right channels) or in Bridged Mono (single channel). Use the switch on the back of the speaker to select Stereo or Mono output.

## VOLUME CAPPING SWITCH

If installing in a hotel room or commercial space you may wish to cap the volume at 50%. Using the Volume capping switch on the back of the speaker you can select either 100% or 50% max volume output.

## SOURCE SELECTION

## CONNECTION RESET BUTTON

Press and hold the 'Reset Button' for 10 seconds to clear the connection memory. All paired devices will be deleted.

## SPECIFICATIONS

- RMS Power: 25W RMS
- Impedance: 8 Ohms
- Sensitivity (1W/1m): 88dB
- Audio Sample Rate: 48Khz
- Line In Analog (AUX), auto-detecting
- Type: Class D (Digital)
- Woofer: 4" Polypropylene Cone
- Tweeter: 0.75" Silk Dome
- Bluetooth System: Bluetooth 5.0
- Frequency Range: 2.4GHz - 2.4835GHz (ISM Band)
- RF Channels: 79 (USA, Japan & EU)
- Wireless Range: Up to 30 metres
- ID Device Name: Lithe Audio BT4
- Power Input Supply : 100 - 240V~ 50/60Hz
- Transformer Output Supply : DC24V / 2.5A
- Dimensions (W x D) 186 x 83mm (7.3 x 3.3inch)
- Weight 1.0kg (2.2 lbs)
- IP rating: IP44
- Operating Temperature 0° to 40° C (32° to 104° F)
- Storage Temperature -20° to 70° C (4° to 158° F)
- Standby power: 1.8W / 0.036A
- Connected power: 1.9W / 0.036A
- Playing Music: 2.0W - 10.5W / 0.037A - 0.05A\*\*

\* Specifications subject to change without notice.

\*\* Power Consumption depends on the type of music & volume - Increased Bass & volume requires more power loading on the amplifier.

## TROUBLESHOOTING

If a problem arises, please try the troubleshooting frequently asked guide below. If the problem is not listed please contact Lithe Audio Customer Service Support on support@litheaudio.com or Call +44 (0) 1293 922 015 ( UK time 9-5pm) or visit support.litheaudio.com

### Q: Speaker has not been found during setup

A: Please check power cord is correctly connected in to speaker and transformer. Press reset button for 10 seconds to reboot the speaker. Before commencing any electrical work ensure the supply is switched OFF at the mains.

### Q: Can the speaker be installed into the bathroom ceiling.

A: Yes, the IP rated models 'LBT4' can be installed in zone 2 or 3 of a bathroom. Ensure you read the safety precautions on page 1 before installation. **Warning:** Do not use the product in water or directly above the bath or shower area.

For further queries and support questions please visit [www.litheaudio.com/support](http://www.litheaudio.com/support)

## REGULATION INFORMATION

FCC EMC COMPLIANCE INFORMATION: This device complies with Part 15 of the FCC Rules. Its operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference received, including interference that may cause undesired operation of the device. Contains FCC ID: 2AQOBLBT2

### EUROPE

LitheAudio declares that this product herewith complies with the requirements of the EMC Directive 2004/108/EC, Low Voltage directive 2006/95/EC, Eco-Design Directive 2005/32/EC, RoHS Directive 2011/65/EU and the R&TTE Directive 1999/5/EC when installed and used in accordance with the manufacturer's instructions. A copy of the full Declaration of Conformance may be obtained at [www.litheaudio.com/support/policies](http://www.litheaudio.com/support/policies).

Lithe Audio Speakers have a standby mode or remove the power cord from the AC mains.

### RECYCLING INFORMATION

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.

Instead please deliver it to the applicable collection point for the recycling of electrical and electronic equipment. By recycling this product correctly, you will help conserve natural resources and prevent potential negative environmental consequences. For more detailed information about recycling of this product, please contact your local council office, your household waste disposal service or the shop where you purchased the product(s) from.

## 2 YEAR GUARANTEE **LITHEAUDIO**

This Speaker is of excellent quality and construction. However, if any defects in materials or workmanship do appear during the guarantee period, we will, at our discretion, either repair or replace the defective parts, free of charge, subject to the terms and conditions of our Guarantee shown below.

This Guarantee covers both parts and labour. Carriage is not included.  
This Guarantee provides benefits which are additional to, and do not affect, your statutory rights.

This Guarantee does not cover the cost of returning the product to the dealer from whom it was purchased or to ourselves. This Guarantee applies only to products sold and located in mainland Great Britain. It does not cover liability in respect of or replacement of plugs, cables or fuses and also does not cover defects due to:

- Failure to use or maintain product in accordance with Lithe Audio instructions.
- The product being connected to an unsuitable electricity supply.
- Accidental damage to or abuse or misuse of the product.
- Product modification, except by Lithe Audio or approved agent.
- Dismantling of or interference with the product.

Before returning any product under this Guarantee, please check that:

- You have followed the product instructions correctly.
- Your mains electricity supply is functional.
- The defect is not due to a blown fuse.

If you wish to claim under this guarantee you should:

- Contact Lithe Audio via [support@litheaudio.com](mailto:support@litheaudio.com) before sending any product back to us, to receive a RMA authorisation number
- Proof of purchase is required to show when and where the product was purchased, (e.g. a invoice).
- Give exact details of the nature of the defect.
- A Returns form shall be sent to you providing details of your name, address and telephone number and details of the defect.
- Ensure that the product is clean and packed carefully (preferably in its original carton).
- Send the product, postage or carriage paid, to the dealer from whom it was purchased or to Lithe Audio direct. (as instructed)

If you are located outside the UK, kindly get in touch with the dealer or distributor from whom you purchased the product for additional guidance on your return.

This Guarantee does not cover any other claims whatsoever, including, without limitation, any liability for incidental, indirect or consequential damage, nor does it cover any claims for conversion or modification or for the costs of repair carried out by any third party without the prior consent of Lithe Audio. If replacement parts are fitted to the product this will not extend the period of the Guarantee.

For further advice contact the Lithe Audio customer services: [www.litheaudio.com/contact](http://www.litheaudio.com/contact)

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