

LITHEAUDIO 

BLUETOOTH CEILING SPEAKER

MODEL LBT SERIES

THANK YOU FOR CHOOSING LITHE AUDIO

Innovative design and advanced engineering built in to our LBT series of wireless Bluetooth ceiling mount speakers. Designed for easy installation and high quality sound, within seconds each room is setup and ready. This manual describes the installation of LBS series speakers within conventional stud and sheetrock (Joist and plasterboard) ceilings.

IMPORTANT SAFETY WARNING

Before use please read completely and use in accordance with these safety instructions. Before commencing any electrical work ensure the supply is switched OFF at the mains. Either by switching off the consumer unit or by removing the appropriate fuse. This product should be installed in accordance with the relevant sections of the building regulations code and in accordance with the latest edition of IEE regulations (BS 7671).

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 as shown in diagram. Ensure terminals are properly tightened and ensure no bare wires are visible. When fitting the speaker into the ceiling, ensure no wires are trapped.

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

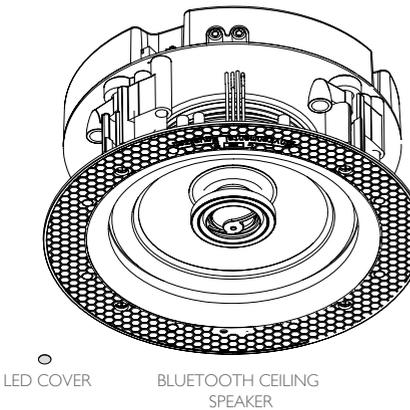
- Failure to follow the instructions in this guide voids all warranties on your speakers.
- Warning: Do not use the product in water.
- Warning: Do not install speaker directly above any heat sources such as radiators, or other apparatus that produce heat.
- Warning: To reduce the risk of fire or electric shock, do not expose this speaker to rain or moisture (directly above bath or shower area) in Bathroom Zone 0, Zone 1 and Zone 2.
- 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 UK building and IEE Regulations with a fire rating of up to 90 minutes, is Parts B, L, C and E compliant.
- Do not open the back cover to the speaker as this protects the PCB as this 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

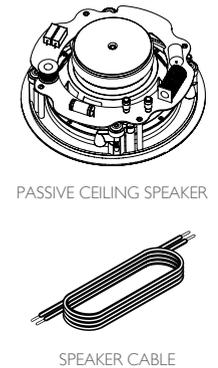
Please ensure you read the entire instruction manual carefully before you commence any work. Carefully unpack the speakers from the packaging. Please check to ensure all the parts shown below are included.

If any parts of the speaker appear damaged, please contact your dealer/reseller immediately or contact www.LitheAudio.com for contact details.

MODEL LBT1



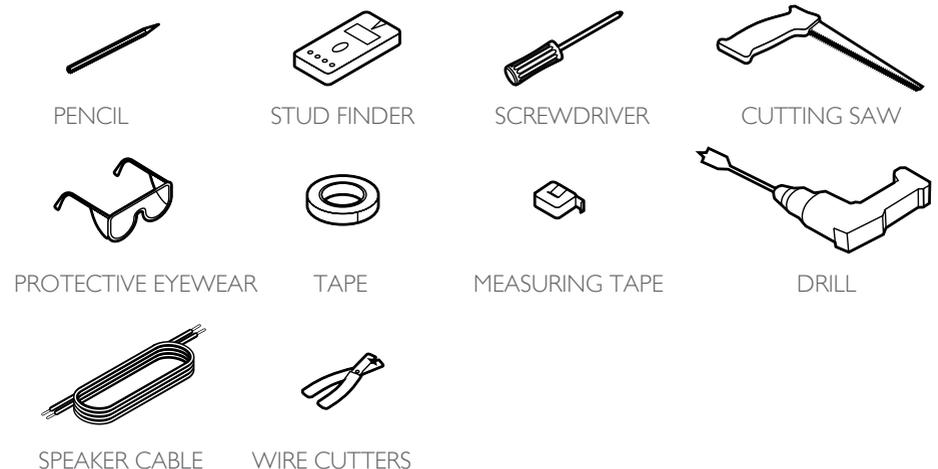
MODEL LBT2 ALSO INCLUDES



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.



KNOW YOUR SPEAKER

The LitheAudio LBT range of Bluetooth ceiling wireless speakers have various inputs:

SPEAKER OUTPUT - To connect one additional passive (Slave) speaker (Gold Plated)

RCA INPUTS - To connect directly from CD Player, TV Output, DVD Player etc..

POWER INPUT - To connect (as supplied) transformer

All models have an in ceiling depth of 3.8" (95 mm)

Connection Reset Button

LED indicator

Ball joint tweeter to fine tune direction

Magnets for Cover (8)

Environmental equalizer (+/- 3db)

RCA Input

RCA-(Black) RCA+(Red)

Built in Amplifier & Bluetooth driver

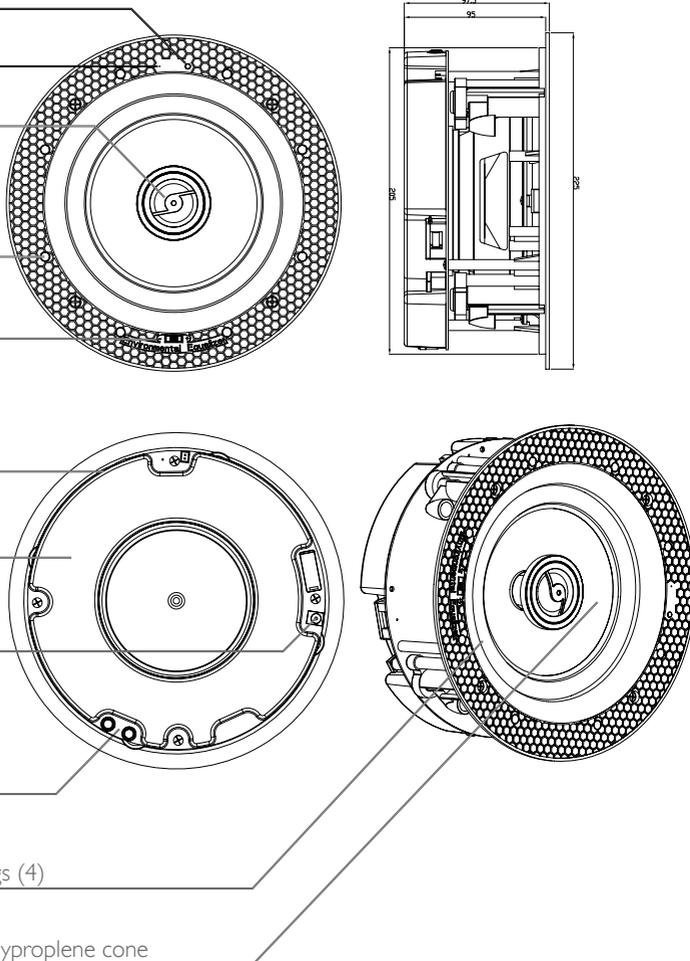
Power input 24V/2.5A

Speaker output

R+ (Red) R- (Black)

Dog leg easy install fixings (4)

6.5" (165mm) Kevlar/Polypropylene cone

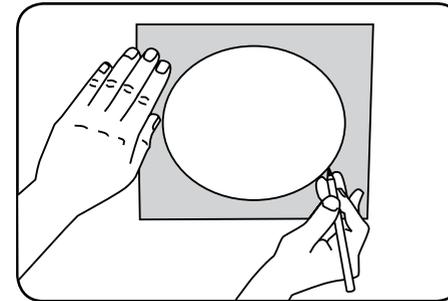


In built over voltage, under voltage, over temperature, and short circuit protection, if there is an electrical fault, the power supply to the amplifier will cut off automatically and restart when the speaker has stabilised.

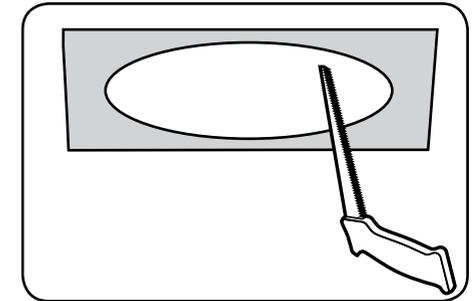
INSTALLATION

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

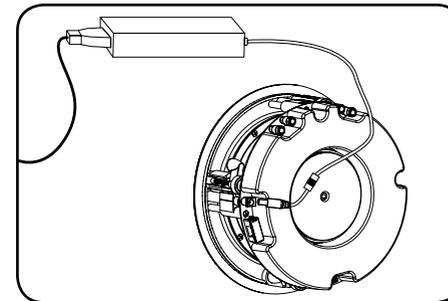
1. Mark out the position of the speaker using a tape measure and mark using a pencil with the template supplied. Check using a stud finder to make sure no obstruction is present prior to cutting.



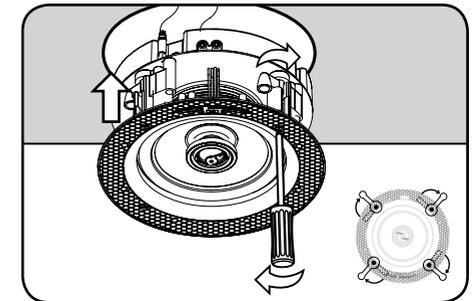
2. Drill a pilot hole and cut the speaker hole using a cutting saw. **Take caution when cutting to keep fingers away from cutting blade and wear protective eyewear.**



3. Connect the Power lead from the transformer (supplied) to a 13A mains plug socket or terminate to a dedicated fused spur. Ensure the power lead is not overstretched.



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 Litheaudio.com for more information.

SETUP AND PAIRING

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

The Led indicator will flash Blue/red when ready to pair, turn solid Blue whilst the device is connected to the speaker and flash blue when music is playing

1. Open the setting menu and select Bluetooth

2. Turn on Bluetooth and search devices



3. Click Lithe Audio BT and insert PIN "1234" and click Pair

4. The Lithe Audio Bluetooth speaker is now connected to your device ready to play your Music.



CONNECTING DEVICES

If other devices (such as laptops, tablets, phones etc) want to play through the Bluetooth speakers please follow the steps below:

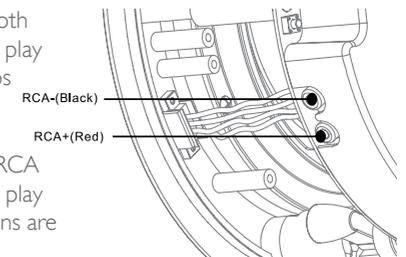
- 1. FIRST CONNECTION:** If device A connects and controls to Bluetooth, Device B cannot search or control the Bluetooth speaker. Device A MUST no longer be connected, then Device B can connect and control.
- 2. SECOND CONNECTION:** If Device A is connected and has control, Device B can't connect to Bluetooth until Device A disconnects, enabling Device B to control the Bluetooth speakers.
- 3. ADDITIONAL DEVICES:** If additional Devices want to connect to Bluetooth speakers, a maximum of 2 devices can connect at any one time, only the 1st device to connect controls the speakers. Please ensure devices A or B are disconnected before trying to connect additional devices C, D, E etc...

NOTE: If your connection to speaker is lost, the device maybe out of range (>10m).

To reconnect simply go to setting menu on the home screen on your device and reconnect to Litheaudio BT, Bluetooth speaker.

HARD WIRED INPUT - RCA INPUT

To connect other devices that may not have a Bluetooth connection (such as CD players, BluRay player etc) to play through the Bluetooth speakers please follow the steps below:



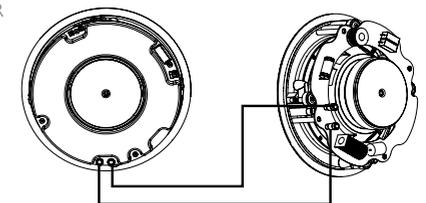
RCA CONNECTION: To play music via speaker RCA connection connect an RCA cable to the speaker and play through your device. Ensure ALL Bluetooth connections are turned off to be able to play through the speaker.

ADDITIONAL SPEAKER - OPTIONAL

PLEASE NOTE: LBT1 DOES NOT INCLUDE PASSIVE SPEAKER

The Lithe Audio Master Bluetooth ceiling speaker is able to connect to an additional passive speaker via the speaker output (+/-)

Use wire cutters to strip the ends of the speaker cable (if required).



SPECIFICATIONS

- Sound Quality THD+N<0.009%, 65Hz-20kHz
 - RMS Power: 50W RMS
 - Impedance: 8 Ohms
 - Sensitivity (1W/1m): 90dB
 - Audio Sample Rate: 8Khz
 - Line In Analog (RCA), auto-detecting
 - Type: Class D (Digital)
 - Woofer: 6.5" Kevlar Woven Cone / Polypropylene
 - Tweeter: 1.2" Titanium Cone
-
- Bluetooth System: Bluetooth V4.0
 - Frequency Range: 2.4GHz - 2.4832GHz (ISM Band)
 - RF Channels: 79 (USA, Japan & EU)
 - Wireless Range: Upto 10 metres
 - ID Device Name: Lithe Audio
 - Security Passcode: 1234
-
- Power Input Supply : 100 - 240V ~ / 2A
 - Transformer Output Supply : DC24V / 2.5A
 - Dimensions (W x D) 6.5 x 3.8 in (230 x 95mm)
 - Weight 3.85 lbs. (1.75kg)
 - IP rating: IP44 (Model: LBT1/IP or LBT2/IP only)
 - Operating Temperature 32° to 104° F (0° to 40° C)
 - Storage Temperature 4° to 158° F (-20° to 70° C)
-
- Standby : 1.3W / 0.02A
 - Connected : 1.5W / 0.03A
 - Playing Music: 2.8W - 10.5W / 0.03A - 0.09A**

* 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.

LED INDICATOR COVER

To mask the LED indicator, use the LED cover sticker included

CONNECTION RESET BUTTON

Press and hold the 'Reset Button' for 2 seconds to clear the connection memory. All paired devices will be deleted.

TROUBLESHOOTING

If a problem arises, please try the troubleshooting frequently asked guide below. If the problem is not listed please contact LitheAudio Customer Service Support.

Q: Speaker has not been found during setup

A: Please check power cord is correctly connected into speaker and transformer, Check the blue / red light is flashing. Press reset button for 5 seconds to reboot the speaker.

Before commencing any electrical work ensure the supply is switched OFF at the mains.

Q: Speaker has failed to connect to Bluetooth

A: Please retry setup and pairing process, follow setup steps 1 - 4 to connect device. Please ensure speaker password is entered correctly. Ensure the device is within 10m range.

Q: Device is connected to Bluetooth speaker but no sound

A: Ensure your device volume is NOT muted, increase the volume

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

A: Only the IP rated models 'LBT1/IP' or 'LBT2/IP' can be installed in zone 3 only. 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

Email: support@litheaudio.com or Call +44 (0) 1293 922 015

REGULATION INFORMATION

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.

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.

LITHEAUDIO®

2 YEAR GUARANTEE

This Ceiling 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:

- Send the product, postage or carriage paid, to the dealer from whom it was purchased or to Lithe Audio direct.
- Ensure that the product is clean and packed carefully (preferably in its original carton).
- Enclose details of your name, address and telephone number and when and where the product was purchased, together with proof of purchase (e.g. a invoice or till receipt).
- Give exact details of the nature of the defect.

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.



Lithe Audio products marked with the CE mark comply with the EC Low Voltage Directive: 73/23/EEC, Electromagnetic Compatibility Directive 89/336/EEC

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