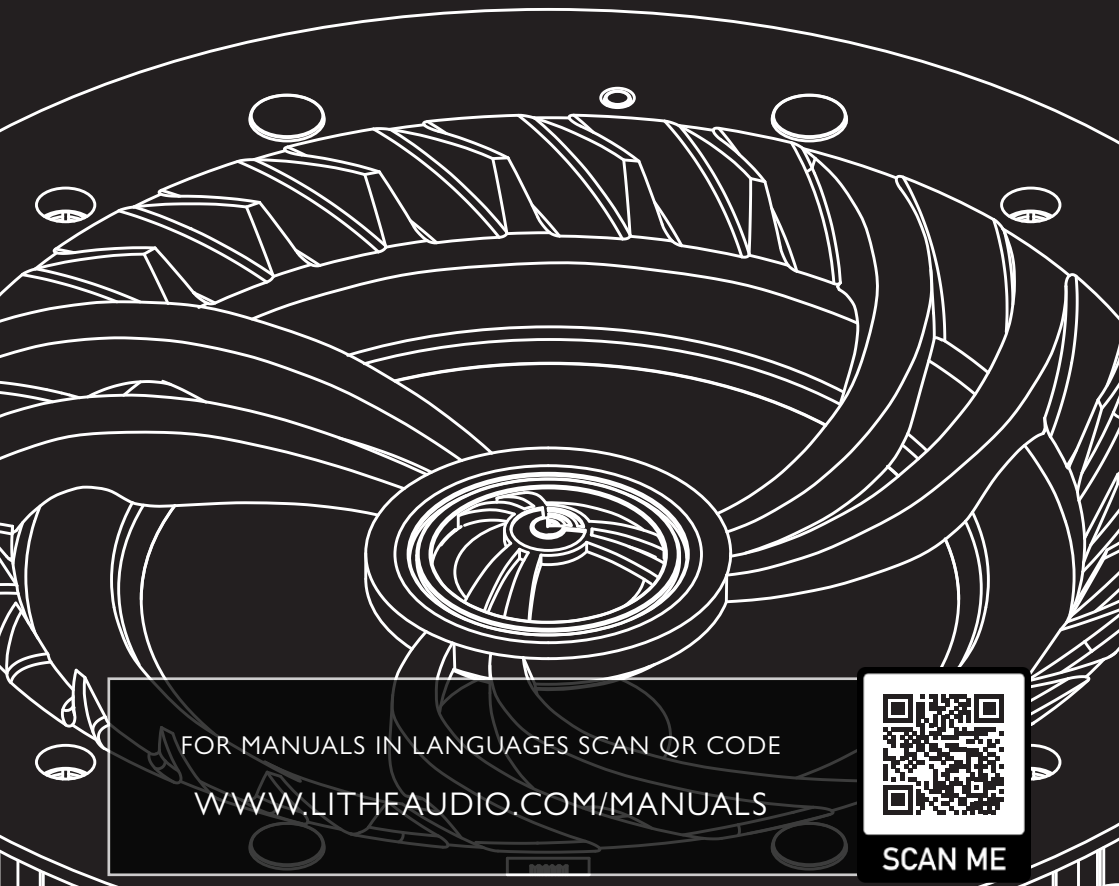
LITHEAUDIO®

WiFi® CEILING SPEAKER

INSTRUCTION MANUAL



FOR MANUALS IN LANGUAGES SCAN QR CODE

WWW.LITHEAUDIO.COM/MANUALS

SCAN ME

LITHEAUDIO

LITHEAUDIO

THANK YOU FOR CHOOSING LITHE AUDIO

Introducing the WiFi Ceiling Speaker: a sleek, innovative audio solution designed to deliver high-quality sound while seamlessly blending into your home or office environment. This manual describes the installation and use of the wifi ceiling speaker series.



For video installation guides and advice visit:

SUPPORT.LITHEAUDIO.COM

SCAN ME



SHARE YOUR INSTALL TO WIN

We're giving you a chance to win a selection of Lithe Audio products simply by sharing a photo of your installed ceiling speakers. Show off your installation and creativity by tagging us in your photo and using the hashtag #LitheAudioInstall Good luck!

SCAN ME

REGISTER YOUR PRODUCT

Register your Lithe Audio product today and unlock exclusive benefits! By registering your product, you'll receive warranty protection, access to software updates, and priority technical support. Plus, you'll be the first to know about new products and promotions.

SCAN ME

LITHE PLAYLIST'S FOR EVERY OCCATION

Looking for the perfect playlist for any occasion? Look no further than Lithe Audio's curated playlists! From soft jazz for evening relaxation to summer vibes for a garden party, our playlists have got you covered. Get the party started with Lithe Audio's playlists today.

SCAN ME

IMPORTANT SAFETY WARNING

BEFORE USE PLEASE READ COMPLETELY AND USE THE PRODUCT 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) 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 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 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.

By default, if no signal or no user input is present for 20 minutes the product will automatically go into standby to save power. Standby Mode power consumption is less than 0.5 watts.

The product has no network standby mode due to functional requirements, so the unit will go into Standby(0.5W) mode directly after 20 minutes of no audio input, no audio output and no user input. Standby Mode power consumption is less than 0.5 watts

USA REGULATIONS

BEFORE USE PLEASE READ COMPLETELY AND USE THE PRODUCT IN ACCORDANCE WITH THESE SAFETY INSTRUCTIONS.

In accordance with US National Electrical Code. It is Important to hire a qualified electrician or contractor who fully understands the NEC codes and regulations to ensure that your electrical installation is in compliant with all relevant safety standards, as each state or locality may have their own additional or stricter codes to be followed.

IMPORTANT: Before commencing any electrical works , locate your electrical panel for your home or building. Turn OFF the power to panel by flipping the main breaker.

Each situation is unique to the installation, consult your local building codes or contact Authorized Dealer or Installer. 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.

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

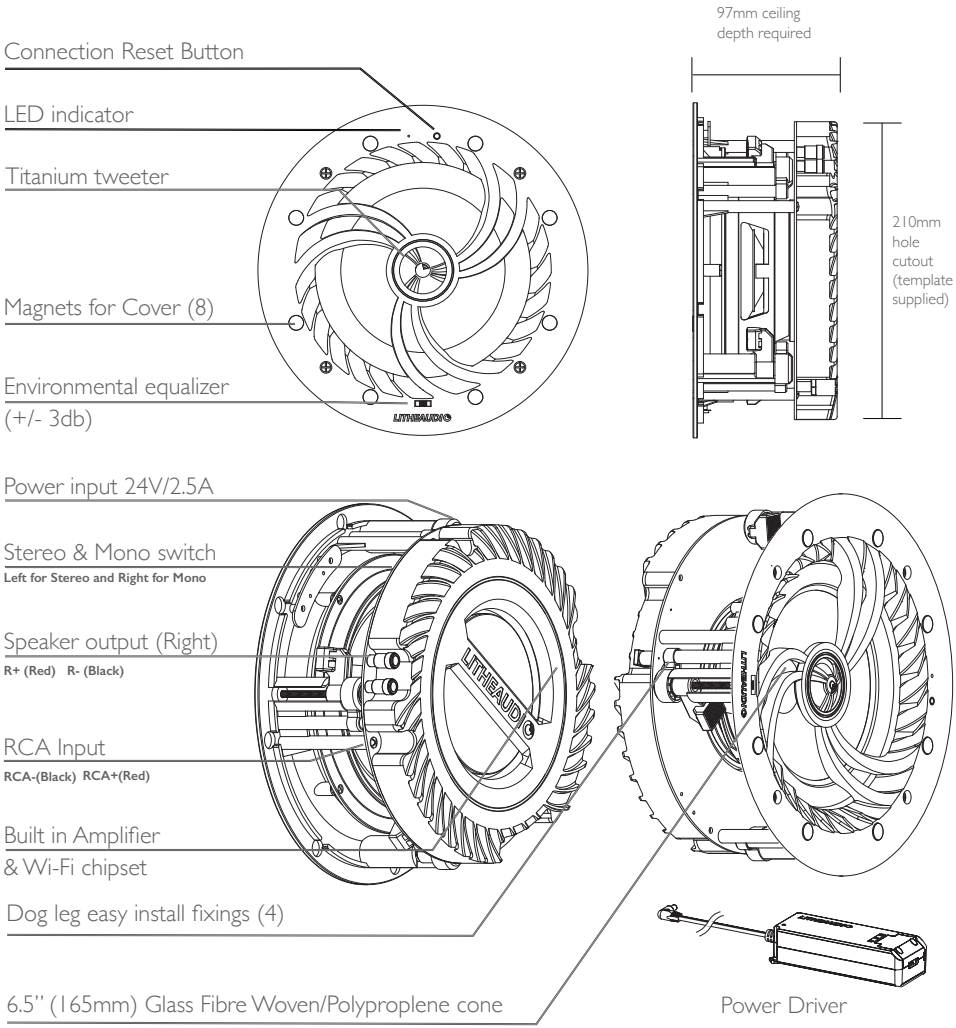
- Failure to follow the instructions in this guide will void all warranties on your speakers.
- Warning: Do not use the product in water.
- Warning: Do not install the speaker directly above any heat sources such as radiators or other apparatus that produces heat.
- Warning: Do not install insulation directly on top of the speaker.
- 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.
- Do not open the internals of the speaker 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.

For USA wiring guide scan QR code:

KNOW YOUR SPEAKER

The Lithe Audio LWF1V3 range of Wi-Fi ceiling wireless speakers have various inputs and outputs:

SPEAKER OUTPUT - To connect one additional passive (Slave) speaker (Gold Plated)
RCA INPUT - To connect directly from existing Hi-Fi equipment
POWER INPUT - To connect (as supplied) transformer



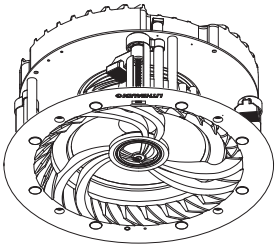
In built over voltage, under voltage, over temperature, and short circuit protection, if there is an electrical fault, the power supply to the amplifier will cut off automatically and restart when the speaker has stabilised.

BOX CONTENTS

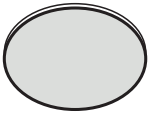
Please ensure you read the entire instruction manual carefully before you commence any work. Carefully unpack the speakers from the packaging. Please check to ensure all the parts shown below are included.

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

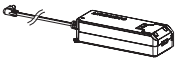
MODEL LWF1V3



WI-FI CEILING SPEAKER



SPEAKER GRILLE



POWER DRIVER

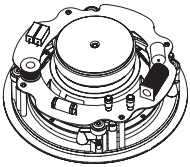


20' DC EXTENSION CABLE (OPTIONAL)



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



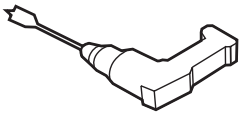
PROTECTIVE EYEWEAR



TAPE



MEASURING TAPE



DRILL



SPEAKER CABLE



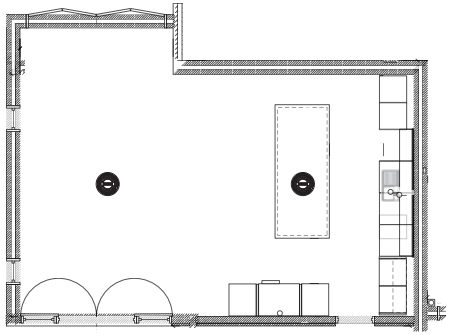
WIRE CUTTERS

SPEAKER PLACEMENT

IMPORTANT: BEFORE COMMENCING ANY WORKS, DETERMINE YOUR PRIMARY LISTENING POSITION. IF YOU ARE UNSURE SEEK HELP FROM AN AV INSTALLER FOR OPTIMUM RESULTS.

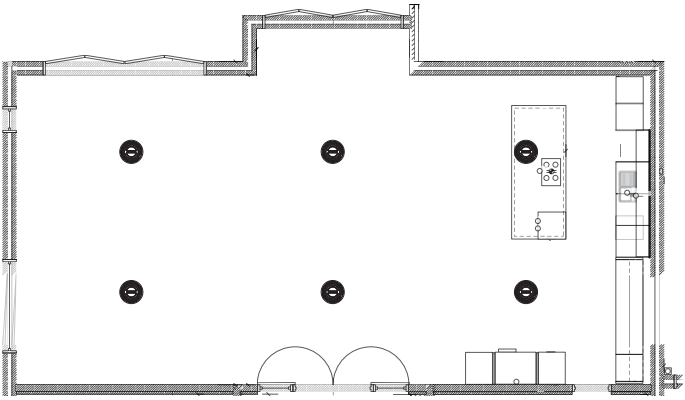
2 SPEAKER PLACEMENT

In an ideal scenario, the two speakers should be spaced equally apart from the primary listening position. Where posible, place the speakers approx 3" / 1m from the wall



4 SPEAKER PLACEMENT

Ideally, the two speakers to the front and two speakers to the rear should be spaced equally apart from the primary listening position to provide balanced listening experience. Where posible, place the speakers approx 3" / 1m from the wall.

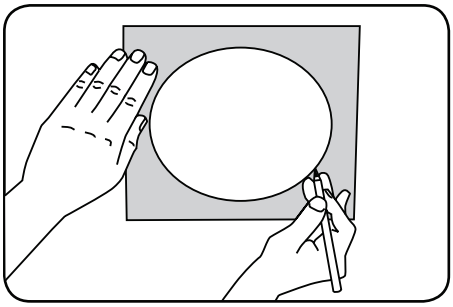


NOTE: For optimal sound when using speaker in vaulted ceilings switch the environmental equaliser switch to +3dB, when using speakers in a tiled environment (Bathroom) switch equaliser to -3dB.

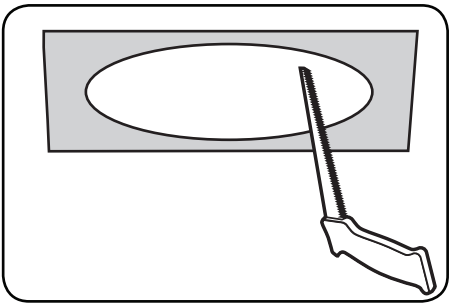
INSTALLATION

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

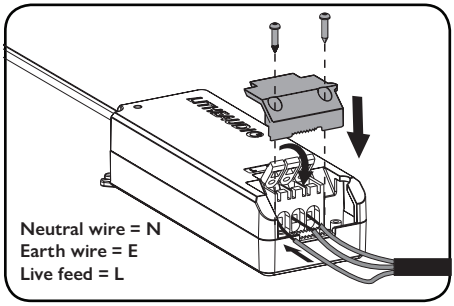
1. Mark out the position of the speaker using a tape measure and mark using a pencil with the template supplied. Check using a stud finder to make sure no obstruction is present prior to cutting.



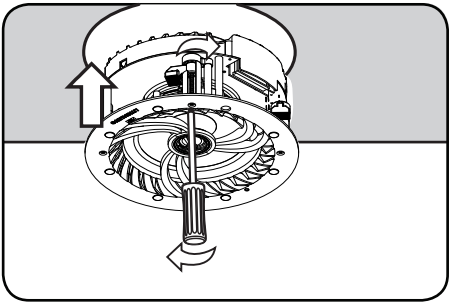
2. Drill a pilot hole and cut the speaker hole using a cutting saw. **Take caution when cutting to keep fingers away from cutting blade and wear protective eyewear.**



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 reccomends 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 for more information and recommended hoods.

YOUR HOME WI-FI NETWORK

To enable the Lithe Audio Wi-Fi ceiling speakers, your device must be on the same network.

- Ensure your network has a high speed internet connection, as the speakers are designed to provide you with free online software/firmware updates.
- High speed DSL / cable modem, or fiber to the home broadband is recommended for best possible playback of music services.
- Lithe Audio communicates over a 2.4GHz & 5GHz Wi-Fi home network supporting 802.11 a, b, g, n, ac wireless technology only.
- For larger homes where Wi-Fi signal is not stable, we suggest adding access points/mesh network to strengthen the network or updating your router to a higher specification model to suit the demand.

LITHE AUDIO APP

For an enhanced listening experience, download the Lithe Audio app from your device's app store and follow the setup instructions in the manual. Once set up, you can:

- Adjust Speaker Settings: Fine-tune the equalizer, change the speaker name, and set preferences for optimal sound. You can also adjust the balance between speakers and switch the output to Left/Right/Stereo.
- Manage Connectivity: Enable or disable Bluetooth and AUX input directly from the app for seamless control.

STATUS INDICATOR LIGHT

Located on the front face of the speaker, the LED Indicates the status of your speaker:

- **Red solid:** Speaker booting up
- **Red quick flash (1s 4 times):** Speaker under restart operation
- **Red slow flash (3s 1 time):** Speaker under standby mode, waiting for user operation
- **Green solid:** Speaker is active and connected to Wi-Fi
- **Blue Solid:** Bluetooth speaker connected
- **Green slow flash(1s 1 time):** Speaker trying to connect to the preconfigured Wi-Fi
- **Solid purple:** Speaker under RCA mode
- **Green quick flash(1s 4 times):** Speaker in WAC/SAC mode, user to configure Wi-Fi

CONNECTING TO HOME NETWORK

1. Download the Lithe Audio APP via the Apple APP store or Google Play Store.

2. Ensure the Wi-Fi speaker is connected to the power supply and is turned on, the LED indicator will will flash red then flash green fast.

3. Then click ADD to start adding your device.



or







4. Follow the steps prompted by the app to connect your device to Wi-Fi and activate Chromecast, If you don't activate here, you can also choose to acivate Chromecast later in the Settings.

5. Once you've done all operation of the above, the LED on the front shall turn solid green, signifying that the Wifi speaker is connected to the WiFi and ready to stream.

STREAMING

Works with Apple AirPlay

works with Google Cast

Spotify

You can stream audio to speakers from various devices such as phones, tablets, and laptops in a number ways:

1. Bluetooth: This allows for a single speaker connection, enabling streaming directly from your device.

2. Apple Users: You can use the AirPlay 2 function. Just click the AirPlay icon on your iPhone, iPad, or MacBook, select any visible speakers you wish to group, and then play from any app.

3. Android Users: Streaming can be done via Google Cast. Create speaker groups within the Google Home App, and then stream from any Google Cast-compatible app to your speakers.

Streaming Differences:
With Spotify Connect and Google Cast, the speaker streams directly from the internet after playback starts, so your phone isn't needed during playback. With AirPlay, audio streams from your phone to the speaker, so the phone must stay on and connected to Wi-Fi.

SPOTIFY CONNECT

Use your phone, tablet or computer as a remote control for Spotify.
Go to spotify.com/connect to learn how.

The Spotify Software is subject to third party licenses found here:
https://www.spotify.com/connect/third-party-licenses

HARD WIRED INPUT- RCA

To connect other devices such as CD player, BluRay player etc) to play through the Wi-Fi 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. Within the Lithe Audio App click on source to activate RCA to be able to play through the speaker.

Note: To ensure the best posible sound without humming or noise, we recommend a shielded RCA cable be used.

CREATE STEREO PAIR

PLEASE NOTE: LWF1V3 DOES NOT INCLUDE PASSIVE SPEAKER

The Lithe Audio Master Wi-Fi ceiling speaker is able to connect to and power an addtional passive speaker via the Right speaker output.

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

SPEAKER

- Sound Quality THD+N<0.009%, 55Hz-20kHz (+/- 3dB)
- RMS Power: 60W RMS (2x 30W)
- Impedance: 8 Ohms nominal
- Sensitivity (1W/1m): 90dB
- Line In Analog (RCA), auto-detecting
- Type: Class D (Digital)
- Audio Compression: 192kHz 24bit
- Woofer: 6.5'' Woven Glass Fiber cone / Polypropylene Cone (IP44)
- Tweeter: 0.75'' Titanium Cone

MUSIC ACCESS

- Audio Formats Supported: MP3, WMA, AAC (MPEG4), AAC+, ALAC, FLAC, APE, WAV, OGG, LPCM
- Audio Sample Rate: up to 192kHz 24bit
- Operating Systems (for stored files) Windows XP SP3 and higher; Mac OS X 10.6.8 and higher; NAS (network-attached storage) devices supporting CIFS
- Stream via, AirPlay2, Google Cast, Bluetooth or Spotify Connect

MULTI ROOM

- Group speakers within same Wi-Fi network

WIRELESS NETWORKING

- Wi-Fi Connectivity: Wi-Fi CERTIFIED™ 802.11 a, b, g, n, ac WPA™ - Personal WPA2™ - Personal WMM®, Wi-Fi Protected Setup™
- Wireless connectivity works on your home Wi-Fi network with both 2.4GHz/5GHz broadcast routers
- Internet connection required for access to Internet radio stations, online music services and software updates.

GENERAL

- Power Input Supply : 100 - 240V, 50/60Hz / 2A
- Transformer Output Supply : DC24V / 2.5A
- Dimensions (W x D) 230 x 110mm (6.5 x 4.3 in)
- Weight 1.75kg (3.85 lbs)
- IP rating: IP44 (Bathroom models only)
- Operating Temperature 0° to 40° C (32° to 104° F)
- Storage Temperature -20° to 70° C (4° to 158° F)
- Standby power: 1.3W / 0.02A
- Connected power: 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.
- Internet functionality may require payment of separate fee to a service provider.

5.15~5.25GHz Band
Operations in the 5.15-5.25GHz band are restricted to indoor use only.

TROUBLESHOOTING

If a problem arises, please try the troubleshooting guide below. If the problem is not listed please contact Lithe Audio 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 red light is ON. Press reset button for 5 seconds on the speaker (discoverable mode), green light shall flash, follow the instructions for Android or AirPlay setup.
*Before commencing any electrical work ensure the supply is switched OFF at the mains.

Q: Speaker connected to AirPlay but not playing through device
A: Please ensure device has good Wi-Fi strength and battery power, check the led indicator is solid green, if not press reset button for 3 secs. Failing this, turn the speaker power off then on.

Q: Device is connected to Wi-Fi speaker but no sound
A: Ensure your device volume is NOT muted, increase the volume within app and try again. Restart the app which the audio is playing from and try again.

Q: Lithe Audio App not showing connected speakers
A: Ensure your speakers green light are on, and connected as per setup. The app shall automatically find active speakers, if not, restart app or press reset on speaker for 3 secs to wake speaker. to show green status light.

Q: Lithe Audio App not working correctly
A: Ensure your speaker firmware/app are up to date, OR restart/reinstall app fully.

Q: Can the speaker be installed into the bathroom ceiling.
A: The IP rated models can be installed in zone 2 or 3 of a bathroom. Ensure you read the saftey precautions before installation.
Warning: Do not use the product in water or directly above the bath or shower area.

Q: I have a new router and speakers are not visible anymore
A: If you have purchased a new router or reset the router back to defualt, you shall need to install the speakers again. Please follow the setup procedures for IOS or Android.

For further queries and support questions please visit www.support.litheaudio.com
email us at support@litheaudio.com or via our website's live chat service (during working hours)

REGULATION INFORMATION

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. these limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by
turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (example- use only shielded interface cables when connecting to computer or peripheral devices).

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

EUROPE

Lithe Audio declares that this product herewith complies with the requirements of the EMC Directive 2014/30/EU, Low Voltage directive 2014/35/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.

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

To view the declaration of conformity, visit: www.litheaudio.com/policies

REGULATION INFORMATION

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.

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Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.
To control this AirPlay 2–enabled speaker, iOS 11.4 or later is required.
Apple, iPad, iPad Air, iPad Pro, iPhone and AirPlay are trademarks of Apple Inc., registered in the U.S. and other countries.

Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

Android™ is a trademark of Google, Inc.

Google, Chromecast built-in are trademarks of Google LLC.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Lithe Audio Ltd is under license. Other trademarks and trade names are those of their respective owners.

Wi-Fi CERTIFIED™ is a registered trademark of Wi-Fi Alliance®

Spotify software is subject to third party licenses found here:
http://www.spotify.com/connect/third-party-licenses

All other products and services mentioned may be trademarks or service marks of their respective owners.

©2025 by Lithe Audio Ltd. All rights reserved.

This warranty may not be valid if the product was purchased via an un-authorised dealer.

The warranty only applies to the individual who made the original purchase; it is not transferable.

The purchaser must show proof of purchase by way of receipt (hard copy or digital copy)

The warranty is null and void if:

- Product altered in any way from its original manufactured state
- Security seal has been removed
- Product defaced

No one is authorised to make or modify any warranty on behalf of Lithe Audio Ltd.

LITHEAUDIO

2 YEAR GUARANTEE

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 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, distributor, or to Lithe Audio. It applies only to products purchased from Lithe Audio or its authorised distributors. It does not cover liability in respect of or replacement of plugs, cables or fuses and 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, 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 your point of purchase. UK customers should contact Lithe Audio via support@litheaudio.com for an RMA number. Customers outside the UK should contact the authorised distributor or dealer from whom the product was purchased.
- Proof of purchase is required to show when and where the product was purchased.
- Give exact details of the defect.
- A Returns form will be sent to you providing details of your name, address, telephone number and details of the defect.
- Ensure that the product is clean and packed carefully (preferably in original carton).
- Send the product, carriage paid, to the dealer, distributor or to Lithe Audio direct (as instructed).

This Guarantee does not cover any other claims whatsoever; including, without limitation, liability for incidental, indirect or consequential damage, nor does it cover conversion or modification costs or repairs carried out by any third party without Lithe Audio's prior consent. Replacement parts fitted to the product will not extend the Guarantee period.

For further assistance contact Lithe Audio customer services: www.litheaudio.com/contact

EU Compliance Contact Information: For any inquiries or assistance regarding this product, please contact our EU Authorised Representative:
Eurolink Europe Compliance Limited 25 Herbert Place, Dublin, D02 AY86. Republic of Ireland
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