



t bone free2b Wireless Audio Signal Transmitter User Guide

[Home](#) » [t bone](#) » t bone free2b Wireless Audio Signal Transmitter User Guide 

Contents

- [1 t bone free2b Wireless Audio Signal Transmitter](#)
- [2 Quick start guide](#)
- [3 Safety instructions](#)
- [4 Features](#)
- [5 Connections and controls](#)
- [6 Operation](#)
- [7 Technical specifications](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)



t bone free2b Wireless Audio Signal Transmitter



Quick start guide

This document contains important information on the safe use of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. If you pass the product on to others, please include this document. Contents are subject to change. Please refer to the latest version of the documentation, which is available for download at www.thomann.de.

Safety instructions

Intended use

This device is used for the wireless transmission of audio signals with microphone and line level. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damage resulting from improper use. This device may be used only by persons with sufficient physical, sensory, and intellectual abilities and the necessary knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Risk of injury and choking hazard for children!



Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such as knobs) that children could play with.

Risk of injury due to incorrect handling of lithium batteries!



In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries. Handle lithium batteries in a correct and professional manner. Store lithium batteries in a cool and dry place in their original packaging. Keep lithium batteries away from sources of heat. Never open lithium batteries. Only charge rechargeable lithium batteries with a suitable charger. Remove the lithium batteries before disposing of the device. Cover the poles of used lithium batteries with adhesive tape to prevent short circuits. Electrolyte can escape from damaged lithium batteries. Put the damaged lithium battery in air-tight packaging. Collect the electrolyte with absorbent paper. Wear rubber gloves while doing so.

Interference with neighbouring electrical receivers due to electromagnetic field!



The device emits an electromagnetic field during operation. Using the device near receiver devices (e.g. radios or TV sets) may cause interference. If the device interferes with neighbouring receivers during operation, increase the distance between the device and the receivers experiencing interference.

Damage to the device if operated in unsuitable ambient conditions!



The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the “Technical specifications”. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

General handling

- To prevent damage, never exert force while operating the device.
- Never immerse the device in water. Wipe only with a clean and dry cloth. Do not use liquid cleaners such as benzene, thinners or flammable cleaning agents

Keep the device away from impurities!

- Keep the device away containers with liquid. Should liquid enter the device, this could lead to its destruction or fire. Ensure that no metallic parts enter the device.

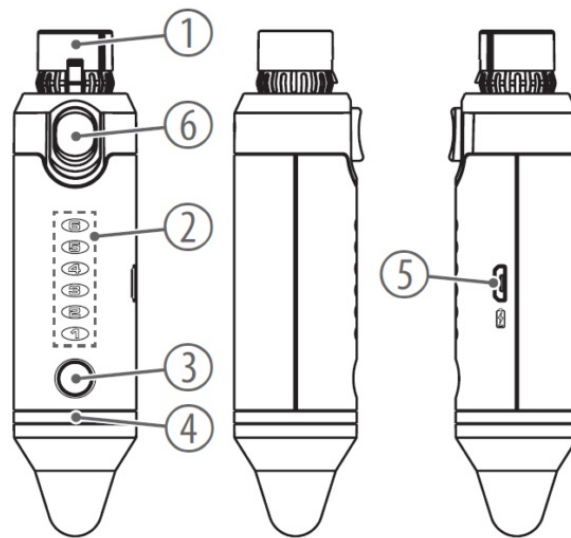
Features

- Plug-on system for dynamic microphones
- Transmitter and receiver set ready for use
- Auto-pairing
- 2.4-GHz band suitable for license-free operation worldwide
- 24 bit/44.1 kHz high-resolution audio quality
- Built-in lithium-ion battery
- Charging via supplied micro-USB cable
- LED display for charging state and selected channel group
- Adapter from XLR to 3.5-mm mini jack included

Connections and controls

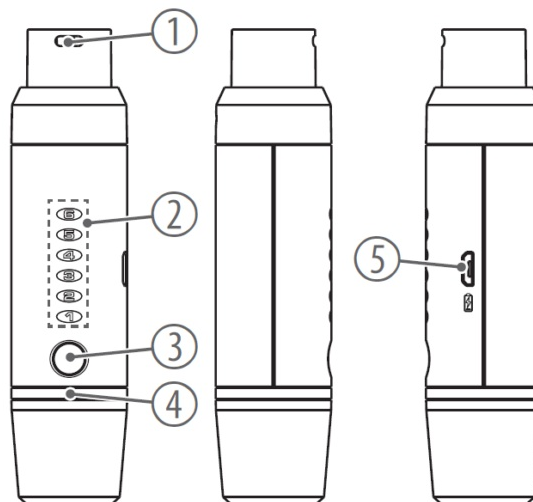
Transmitter

1. XLR connection socket
2. Channel display
3. Main switch
4. RF status LED ring
5. Micro-USB port
6. Locking mechanism for the XLR connection socket



Receiver

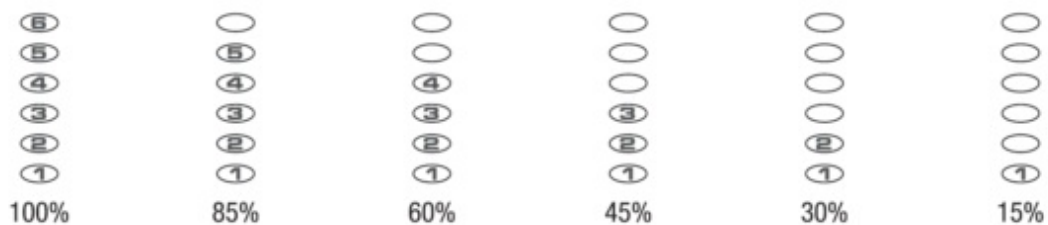
1. XLR connection plug
2. Channel display
3. Main switch
4. RF status LED ring
5. Micro-USB port



Operation

Turning on/off

1. Press the main switch (3) to turn on the devices. The channel displays (2) now operate as a charging indicator for one second:



If the charging state drops below approx. 10%, the RF status LED ring (4) flashes red twice and the device switches off automatically.

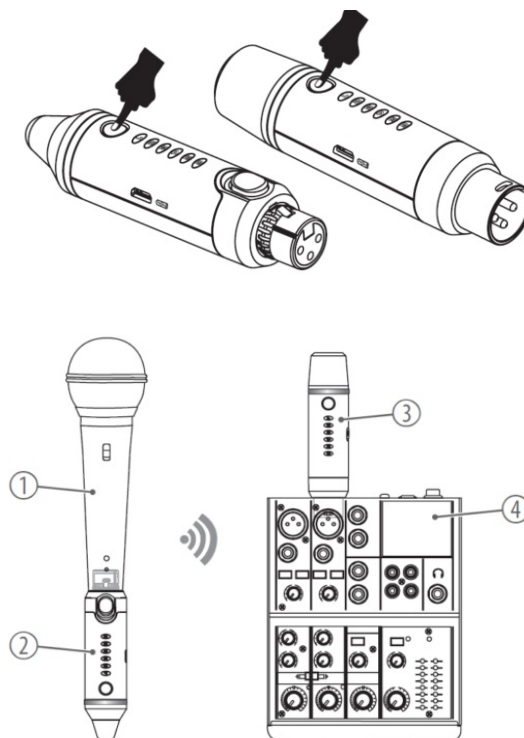
2. To charge the built-in battery, use the supplied USB cable to connect the micro-USB socket (5) to a powered-up computer or some other USB charging source. While the device is charging, the RF status LED ring (4) lights up red. Once charging is complete, the RF status LED ring (4) lights up blue. If the devices are not used for a longer period of time, charge the batteries fully every three months.

Connecting and pairing devices

1. Connect the XLR connection socket (1) of the transmitter to the XLR connection of the microphone. Connect the XLR connection plug of the receiver (1) to the XLR input of a mixer or similar device for further processing of the signal (see Fig.).
2. When both devices have been switched on, they pair up automatically and choose a suitable channel group. Wait until the RF status LED ring (4) of the transmitter lights up blue. Pairing is now complete, and the devices show the channel group currently in use. Operate the devices at a distance of at least 3 metres from other transmission equipment such as WLAN routers in order to prevent interference.

Auto standby mode

1. If the transmitter is not connected to a microphone within 30 seconds of being switched on, or if the input signal is missing for 30 seconds, the transmitter and the paired receiver automatically switch to standby mode in order to preserve the battery charge. When the signal returns, both devices switch on again immediately.
2. If the transmitter is not connected to a microphone within one hour of being switched on, or if the input signal is missing for one hour, both devices shut down completely. To turn them back on again, press the main switch (3) on both devices.



1. Microphone

2. Transmitter
3. Receiver
4. Mixer

Technical specifications

Receiver

- Number of systems that can be operated in parallel 6 systems
- Output connections 1 × XLR plug
- Frequency range 2.404 – 2.439 GHz
- Bandwidth Wireless transmission 2.55 MHz
- Audio 20 – 20 kHz
- Sensitivity -90 dBm
- Antenna gain 2.85 dBi
- Total harmonic distortion (THD) 0.05%
- Signal-to-noise ratio > 110 dB (A)
- Latency < 3.5 ms
- Battery Battery type Lithium-ion
- Voltage 3.7 V
- Capacity 700 mAh
- Operating time 7 h
- Charging time 3 h
- Dimensions (W × H × D) approx. 108 mm × 26 mm × 26 mm
- Weight 130 g
- Ambient conditions Temperature range 0 °C...40 °C
- Relative humidity 20%...80% (non-condensing)

Transmitter

- Input connections 1 × XLR socket
- Frequency range 2.404 – 2.439 GHz
- Max. transmission power 10 mW
- Max. input level +6 dBV
- Bandwidth Wireless transmission 2.55 MHz
- Audio 20 – 20 kHz
- Input impedance 4 kΩ
- Range in clear field of vision 30 m
- Total harmonic distortion (THD) 0.05% | THD+N <0.2%
- Signal-to-noise ratio > 110 dB (A)
- Battery Battery type Lithium-ion
- Voltage 3.7 V
- Capacity 700 mAh
- Operating time 7 h

- Charging time 3 h
- Dimensions (W × H × D) approx. 108 mm × 26 mm × 26 mm
- Weight 130 g
- Ambient conditions Temperature range 0 °C...40 °C
- Relative humidity 20%...80% (non-condensing)

Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner. Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Follow the instructions and markings on the packaging. Batteries must not be thrown away or burnt, but must instead be disposed of in line with the local regulations on the disposal of hazardous waste. Use the available collection sites. Only dispose of lithium batteries when they are empty. Remove lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose the built-in lithium batteries together with the device. Check for an appropriate collection facility. Dispose of the batteries and rechargeable batteries at the appropriate collection points or through your local waste facility.


This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended. Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on www.thomann.de.

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them. Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal. If your old device contains personal data, delete those data before disposing of it. Observe the disposal note regarding documentation in France.

- Discover the entire t.bone range on our website: tbone.audio
- Visit us on Instagram and discover the full audio experience: [tbone.audio/instagram](https://www.instagram.com/tbone.audio/)
- Visit our YouTube channel for product videos and interesting stories: [tbone.audio/youtube](https://www.youtube.com/tbone.audio/)

Thomann GmbH · Hans-Thomann-Straße 1 · 96138
Burgebrach
Germany
www.thomann.de

Documents / Resources

	<p>t bone free2b Wireless Audio Signal Transmitter [pdf] User Guide free2b Wireless Audio Signal Transmitter, free2b, Wireless Audio Signal Transmitter, Audio Signal Transmitter, Signal Transmitter, Transmitter</p>
---	--

References

- [!\[\]\(eae20f1adff742df783f6f7e3bbe72d1_img.jpg\) **Buy musical instruments online from the market leader – Thomann United States**](#)
- [**User Manual**](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.