

Quick Start Guide

This quick start guide contains important information on the safe operation of the product. Read and follow the safety advice and instructions given. Retain the quick start guide for future reference. If you pass the product on to others please include this quick start guide.

Safety instructions

Intended use

This device is intended to be used for the wireless transmission of audio signals especially for mobile applications. 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 damages resulting from improper use.

Danger for children



Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard! Ensure that children do not detach any small parts from the product. They could swallow the pieces and choke! Never let children unattended use electrical devices.

Where to use the product

Never use the product

- in conditions of extreme temperature or humidity
- in extremely dusty or dirty areas
- at locations where the unit can become wet

General handling

- To prevent damage, never use force when handling the product.
- Never immerse the product in water. Just wipe it with a clean dry cloth. Do not use liquid cleaners such as benzene, thinners or flammable cleaning agents.

Incorrect handling of lithium batteries can result in injury

- In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries.
- When handled correctly and appropriately lithium batteries pose no risk.
- Store lithium batteries in a cool, dry place, ideally in the original packaging.
- Store lithium batteries away from heat sources (e.g. radiators or sunlight). Lithium batteries are hermetically sealed. Never attempt to open a lithium battery.
- If the battery housing is damaged small amounts of the electrolyte may leak out. If this should happen, seal the lithium battery in airtight packaging and wipe up the traces of electrolyte using absorbent paper towels. You must wear protective rubber gloves when doing so. Clean your hands and the affected surface thoroughly with cold water.
- Never attempt to recharge non-rechargeable lithium batteries. When charging lithium batteries you must use a suitable charging device intended for the purpose.
- Before disposing of the device remove the lithium batteries. Protect used lithium batteries against potential short circuits, e.g. by covering the poles with adhesive tape.
- Only use powder extinguishers or other suitable extinguishing agents to extinguish a burning lithium battery.

Possible damage to lithium-ion batteries through incorrect storage

By deep discharge, lithium-ion batteries can be permanently damaged or lose some of their capacity. Before long breaks, charge the batteries to around 50 % of their capacity and then switch off the device. Store the device at room temperature or cooler in an environment as dry as possible. If the batteries are stored for a longer period, recharge them to 50 % every three months. Fully charge the batteries only shortly before use at room temperature.

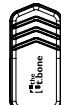
Scope of delivery



1 × receiver



1 × transmitter (item no. 516619)
2 × transmitter (item no. 516620)



1 × Tragetasche



1 × fur-windscreen (item no. 516619)
2 × fur-windscreen (item no. 516620)



1 × 3.5 mm TRS on TRS camera spiral cable



1 × 3.5 mm TRS on TRRS phone cable



1 × external Lavalier microphone (item no. 516619)
2 × external Lavalier microphone (item no. 516620)



1 × charging cable 1 × USB A to 2 × USB C (item no. 516619)



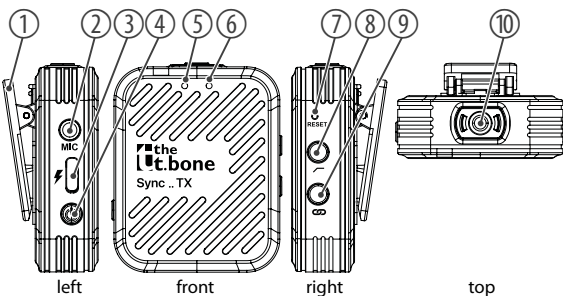
1 × charging cable 1 × USB A to 3 × USB C (item no. 516620)

Features

- professional digital 2.4 GHz wireless system with transmitter and receiver
- ideal for mobile applications as interviews, micro video recordings, vlogging
- transmitter with built-in microphone or external Lavalier microphone
- distortion-free signal transmission
- switchable low-cut filter
- auto-pairing
- 8 systems are possible in parallel use at a distance of min. 2 m

- TRS headset output for real-time monitoring
- TRS recording output
- TRS microphone input
- Built-in lithium-ion battery
- Clip for installation on belt or clothes, also for installation on hot shoe
- Colour: black

Connections and operating elements Transmitter



- ① Back clip
- ② Connection for external microphone
- ③ USB C charging port
- ④ Main switch, keep pressed for 2 seconds for switching on/off
- ⑤ Blue indicator LED for pairing

slow flashing:	switching on
fast flashing:	pairing
lighting up:	successfully paired
2× fast flashing, then turning off, in cycle:	lowpass function enabled
- ⑥ Green charge status indicator

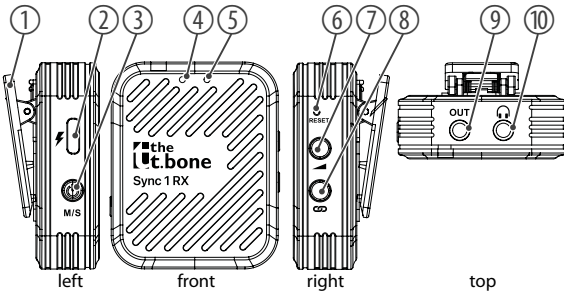
slow flashing:	battery charging status less than 10 %
lighting up:	charging
turning off:	battery fully charged
- ⑦ Button for forced shut-off
- ⑧ Lowpass button
- ⑨ Pairing button
- ⑩ Built-in microphone

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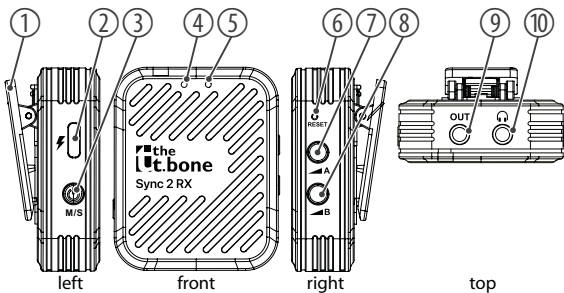
Sync 1 and 2

Connections and operating elements Receiver

Item no. 516619



Item no. 516620



- ① Back clip
- ② USB C charging port
- ③ Main switch, keep pressed for 2 seconds for switching on/off additional for item no. 516620: Switching mono/stereo
- ④ Blue indicator LED for pairing
 - slow flashing: switching on
 - fast flashing: pairing
 - lighting up: successfully paired
 - 2× fast flashing, then turning off, in cycle: lowpass function enabled
- ⑤ Green charge status indicator
 - slow flashing: battery charging status less than 10 %
 - lighting up: charging
 - turning off: battery fully charged
- ⑥ Button for forced shut-off
- ⑦ Gain setting (item no. 516619)
- ⑧ Pairing button (item no. 516619)
- ⑨ 3.5 mm connection for monitoring (headset output)
- ⑩ 3.5 mm connection for audio output (line out)

Operating

Pairing

The pairing automatically starts after switching on. If you like to pair the devices manually, keep pressed the pairing button (8) (item no. 516619) or the buttons (7) and (8) (item no. 516620) on the receiver and the pairing button (9) on the transmitter for 3 seconds. The pairing starts automatically.

Connection

The receiver outputs the audio signal via the 3.5 mm TRRS phone cable or the 3.5 mm TRS camera spiral cable to the recording device. Please use the cable which is suitable for your device.

Installation

Install the transmitter or the external microphone on the clothes of the speaker. Install the receiver with the back clip on the hot shoe of the camera.

Gain setting

The initial gain value is the original volume of the microphone. Press the gain button once to increase the gain by one step. There are 4 steps in total switchable. When the gain reaches the highest step, press the button again to return to the initial value.

Technical specifications

Transmitter

■ Frequency of operation	2400 - 2483.5 MHz
■ Max. transmission power	10 mW
■ Max. input level	1 V (0 dBV)
■ Latency	12.5 ms
■ Range	in free field 50 m not in free field 30 m
■ Power supply	USB port
■ Battery	type built-in lithium-ion battery capacity 400 mAh operating time 5 h charging time 1.5 h
■ Dimensions (W × H × D)	52 mm × 42 mm × 16 mm
■ Weight (w/o external microphone)	35 g
■ Ambient conditions	temperature range 0 °C...40 °C relative humidity 20 %...80 % (non-condensing)

Microphones

■ Sound field	mono
■ Polar pattern	omnidirectional
■ Frequency range	50 Hz - 20 kHz
■ Sensitivity	-40 dB (±3 dB, re 1 V / Pa @ 1 kHz)
■ Max. sound pressure level (@ 1 kHz)	135 dB

Receiver

■ Frequency of operation	2400 - 2483.5 MHz
■ Sensitivity	-81 dBm
■ Output level	Line Out 1 V Monitoring 25 - 30 mW
■ Audio channels	item no. 516619 1 × mono item no. 516620 2 × mono or 1 × stereo
■ Latency	12.5 ms
■ Range	in free field 50 m not in free field 30 m
■ Power supply	USB port
■ Gain	steps 0 - 4 switchable (0 - 8 dB)
■ Battery	type built-in lithium-ion battery capacity 400 mAh operating time 5 h charging time 1.5 h
■ Dimensions (W × H × D)	52 mm × 42 mm × 16 mm
■ Weight (w/o external microphone)	35 g
■ Ambient conditions	temperature range 0 °C...40 °C relative humidity 20 %...80 % (non-condensing)



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling. Ensure that plastic bags, packaging, etc. are properly disposed of. Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.



Dispose lithium batteries only in discharged condition. Remove replaceable lithium batteries from the device before disposal. Protect used lithium batteries from short circuits, for example by covering the poles with adhesive tape. Permanently installed lithium batteries must be disposed of together with the device. Please inquire about a suitable acceptance point.



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose of your old device with your normal household waste. Dispose of this product through an approved waste disposal firm or through your local waste facility. Comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.