



Merkury Innovations **CONFIDENTIAL**

FILE INFORMATION

DATE: 06/30/25  
MODEL NUMBER:  
TS-BT104-199 (MANUAL)

PRINTER SPECIFICATIONS

FILE NAME: TS-BT104\_Manual\_063025\_OL.ai  
SCALE: 100%  
SIZE: Trim: W 360mm x H 155mm  
PAPER STOCK: 80g Art Paper  
INKS: 1/1  
Grayscale  
PRESS WORK / NOTES: Trim to size, score, fold,  
& glue in specified areas.  
----- Trim  
----- Crease

DO NOT print Comments or Dielines.  
Physical sample according to specs must be approved  
by MERKURY before proceeding to production.

CONTACT

MERKURY CHINA:  
Perry  
perry@merkuryinnovations.com.cn

COMMENTS (Internal reference only)

File created by Aleksei  
- Include this manual in all packaging  
- Double-sided Grayscale printing  
- Fold Neatly

OUTSIDE

RECONNECT BLUETOOTH®

- You only need to pair your Bluetooth® device with the speaker once.
- With your previously paired device's Bluetooth® turned on and in range, power on the speaker.
- The speaker will automatically reconnect to the last Bluetooth® device it was connected to.
- If you have a previously paired device that does not auto-reconnect, navigate to the Bluetooth® settings menu on your device and select **"TECH SOL BT104"** from the list of paired Bluetooth® devices and press **"forget this device"** and then proceed to follow the instructions on how to pair the speaker to a Bluetooth® enabled device.

SAFETY INFORMATION

Read the following recommendations before using the Bluetooth® speaker:

- Please use the USB power cable provided with the product.
- This product is not waterproof, so do not immerse in water.
- DO NOT use intensive chemical products or detergent to clean the product.
- DO NOT attempt to disassemble the product as it may get damaged and void the warranty.
- DO NOT scratch the surface with sharp objects.

FCC NOTICE

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.  
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.  
IMPORTANT NOTE:  
Note: 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.  
FCC Radiation Exposure Statement:  
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

TECHNICAL SUPPORT

Please do not attempt to fix the product by yourself. If you are experiencing any problems with the product. You can contact our technical support representatives and they will assist you with any questions you might have.

For assistance operating your product, please consult the User's Manual first, then feel free to contact Merkury Innovations technical support:

**Merkury Innovations**  
45 Broadway, 3rd Floor  
New York, New York 10006  
www.merkuryinnovations.com  
E-mail: support@merkuryinnovations.com

SPECIFICATIONS

Speaker Battery Capacity: 600mAh  
Microphone Battery Capacity: 300mAh  
USB Powered: 5V/1A  
Speaker Output Power: 5W  
Driver Size: 52 mm  
Freq. Response: 20Hz ~ 20KHz  
Bluetooth® V5.4 Range: Up to 30ft  
Super MP3 audio decoding technology



© 2025 Merkury Innovations LLC  
To explore our full selection of products, visit us at: www.merkuryinnovations.com  
The illustrated product and specifications may differ slightly from that supplied.  
The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.  
All other trademarks and trade names are those of their respective owners.  
Made in China.



SING ALONG  
LED SPEAKER & MICROPHONE

USER MANUAL TS-BT104

Includes: SING ALONG LED Speaker, 1 Wireless Microphone, USB-C Charging Cable, User Manual

\* **IMPORTANT:** Please read before using this product

INSIDE

CHARGING

- Plug the USB type C charging cable into the USB-C port on the back of the speaker and connect the other end of the cable into any compatible 5V 1 Amp USB charger or USB AC wall adapter. Do Not Use a 2 Amp or greater USB Charger on this device to avoid damaging the battery or the product.
- When charging, the small LED indicator will glow red. When fully charged, the LED indicator will turn off.
- Use the USB charging cable to plug into the charging port at the bottom of the microphone to charge.  
**NOTE:** It is recommended to fully charge devices before initial use.  
\*Charging time may vary slightly based on individual usage.

POWER ON/OFF

- Power on the speaker by pressing the power button located on the top of the speaker.
- Speaker automatically starts in Bluetooth® pairing mode and will connect with previously connected Bluetooth® devices if in range.

PAIR & CONNECT WITH A NEW DEVICE

- Make sure the speaker is turned off and your device's Bluetooth® setting is enabled.
- Turn the speaker on; after a few seconds it will automatically enter pairing mode and the LED will flash.
- On your Bluetooth® enabled device, navigate to the Bluetooth® settings menu, turn on the Bluetooth® feature, and search for new devices.
- Wait a few seconds and select **"TECH SOL BT104"** the speaker will emit a tone when successfully paired.  
**NOTE:** If your device's Bluetooth® version is below version 2.1, you may need to enter the password "0000."  
**AUX-IN:** The speaker will switch to wired mode automatically once an AUX cable is inserted into the AUX-IN port.  
**NOTE:** Insert a Micro-SD card for direct music playback.

USING THE SPEAKER

- Connect your device to the speaker via Bluetooth® (see "Pair & Connect with a New Device").
- Open your favorite music app and press the "⏮" button to play/pause music.
- Control the music, track and volume from your device, or control them from the onboard controls on the speaker.
- Adjusting Volume: Press "+" or "-" volume control buttons on the speaker or through your device.
- Press and hold the "+" or "-" button to skip/return to the next/previous track.
- All audio, including music, games, videos, and notifications will be played through the speaker.

TWS FEATURE

- To activate the TWS function, first turn on both speakers (2nd speaker not included).
- Next, connect one speaker by selecting the Bluetooth® name **"TECH SOL BT104"**.
- Once this connection is established, press the "⏮" key twice on the other speaker to connect the two devices and enable the TWS feature.

USING THE MICROPHONE

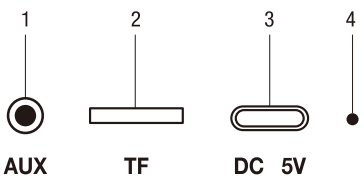
- When the speaker is turned on, the wireless microphone is connected to the speaker by default after turning it on.
- Turn on the wireless microphone by pressing and holding the power "⏻" button on the wireless microphone to begin using the microphone. To adjust the volume on the microphone, simply press the "+" button on the micophone to increase the volume or press the "-" button to decrease the volume.
- Press the microphone "⌚" button to rotate through the various special voice effects built into the microphone.
- Press and hold the microphone "⌚" button to reset the special voice effects feature of the microphone and return to normal voice mode.  
**NOTE:** When the blue light of the wireless microphone is flashing, it indicates that the microphone battery is running low and needs to be charged.

SPEAKER ON-BOARD CONTROLS (TOP OF THE SPEAKER)



- Press the "+" button once to increase the volume.
- Press the "-" button once to decrease the volume.
- With the speaker powered off, press & hold the power "⏻" button for 3 seconds to turn on the speaker.
- Press once to toggle between pause and play modes of your audio source.
- Press the "M" button once to toggle between Bluetooth® / TF Card mode.
- Press the "M" button for 3 seconds to turn the LED light effect mode on or off.
- Press the "M" button twice to toggle between the LED light effect modes:  
-Firefly Flicker (multi-color lights gently pulsate);  
-Color Cycle: (each color appears individually);  
-Circular Flow: (LEDs illuminate in a circular motion, color by color).

SPEAKER INPUTS (BACK OF SPEAKER)



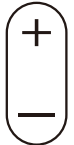
- AUX input port:**  
3.5mm audio jack for wired headphones.
- Micro-SD / TF card port:**  
Insert a TF (MicroSD) card here to play audio files directly from the card.
- USB-C charging port**
- LED indicator light:**  
-Red light: Charging;  
-Blue light: Bluetooth® pairing mode

MICROPHONE ON-BOARD CONTROLS



**Microphone power/control button:**

- Press and hold: Turn the microphone on or off. (Note: When powered on, the microphone will automatically connect to your Bluetooth® speaker if it's also turned on.)
- Press (single): Cycle through microphone effects: reverberation, style, and more.
- Double-press: Play or pause audio playback from the speaker.



**Volume up button:**

- Press: Increase microphone volume.

**Volume down button:**

- Press: decrease microphone volume.



**Voice changer button:**

- Press and hold for 2 seconds to change your voice.
- There are 5 voice modes:  
- Normal Voice; - Raise an octave; - Lower an octave; - Monster Voice; - Baby Voice.



**Indicator light:**

- Red light: Charging
- Blue light: Bluetooth® mode



**Type-C Charging Port (Bottom of Microphone)**

- Type-C USB charging cable supplied.

Microphone FCCID:2A935BT104-1  
Speaker FCCID:2A935BT104

TROUBLESHOOTING

|                                                       |                                                                                                                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No power                                              | Plug the included USB power cable into the USB-C port, and connect the other end of the cable to any compatible 5V 1 Amp USB adapter charger or wall outlet. Try using a different USB cable. |
| Music is not playing over Bluetooth®                  | Make sure your Bluetooth® device has A2DP profile. Check if both devices are paired and connected over Bluetooth®. Restart the speaker to reconnect your Bluetooth® device.                   |
| Bluetooth® device will not reconnect with the speaker | Navigate to your Bluetooth® settings menu on your Bluetooth® device, tap <b>"TECH SOL BT104,"</b> and select "Forget." Now follow the steps to pair your device again.                        |