

SAMCOM BTEAR01

SAMCOM Wireless Bluetooth Headset BTEAR01

USER MANUAL

1. Introduction

Thank you for choosing the SAMCOM BTEAR01 Wireless Bluetooth Headset. This professional in-ear radio earpiece is designed for comfortable, hands-free communication with crystal-clear audio, ideal for various professional environments such as security, event management, and public safety. This manual provides comprehensive instructions to help you set up, operate, and maintain your headset for optimal performance.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1x Wireless Earpiece for Walkie Talkie (with mic & PTT button)
- 1x 2-Pin Connector (Dongle)
- 1x USB-Type C Charging Cable (Y adaptor 2-in-1)
- 1x Acoustic Coil Tube
- 2x Replacement Eartips
- 1x User Manual

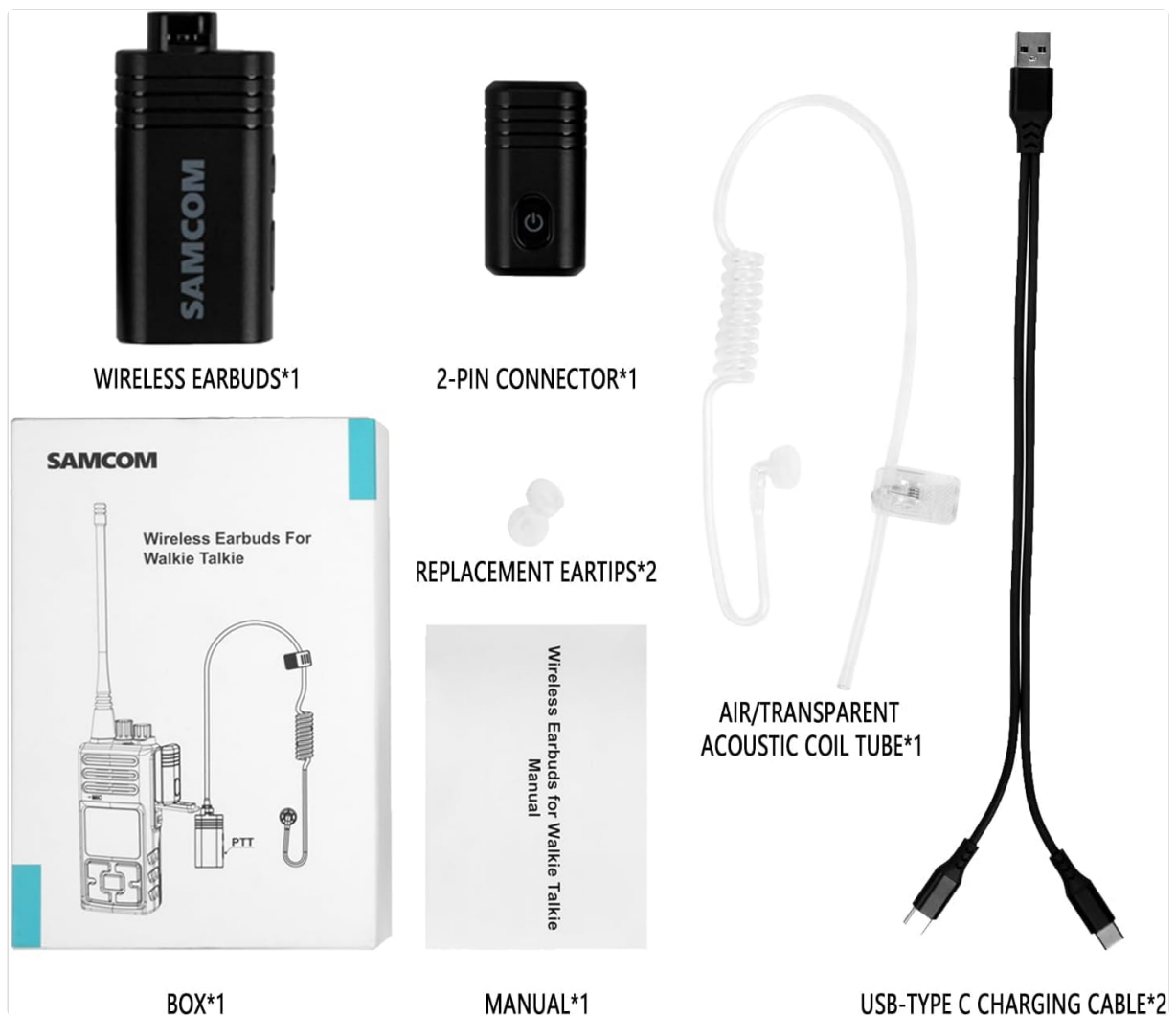


Figure 2.1: All components included in the SAMCOM BTEAR01 package.

The image above displays all the components you should find in your SAMCOM BTEAR01 package, ensuring you have everything needed for setup and operation.

3. Safety Information

To ensure safe and proper use of your SAMCOM BTEAR01 headset, please observe the following:

- Do not expose the device to extreme temperatures, moisture, or corrosive substances.
- Avoid dropping or subjecting the device to severe impact.
- Use only the provided charging cable to prevent damage to the battery and device.
- Keep out of reach of children.
- **Important Compatibility Note:** This headset works with Kenwood, SAMCOM, and other 2-pin radios. It is **NOT** compatible with Midland, Motorola, or any non-2-pin devices (e.g., phones, laptops). Always verify your radio's connector before purchase.

4. Product Overview

The SAMCOM BTEAR01 system consists of a wireless earpiece with an integrated microphone and PTT button, and a 2-pin dongle that connects to your two-way radio. The acoustic tube earpiece provides discreet and comfortable listening.



Figure 4.1: Overview of the SAMCOM BTEAR01 headset system in use with a radio.

This image illustrates the main components of the SAMCOM BTEAR01 system, showing how the earpiece and dongle connect to a two-way radio for wireless communication.

Dimensions



Figure 4.2: Detailed dimensions of the headset components.

The diagram above provides precise measurements for the wireless earpiece, the 2-pin dongle, and the acoustic coil tube, aiding in understanding the physical size of each component.

5. Setup Instructions

5.1 Charging the Headset

Before first use, fully charge both the wireless earpiece and the 2-pin dongle. Use the provided Y adaptor 2-in-1 USB charging cable to power both units simultaneously. A full charge takes approximately 2 hours and provides over 10 hours of talk time.

Outstanding Battery Performance



Connection Range up to **10** m 

Pairing Speed Increasing **99%** 

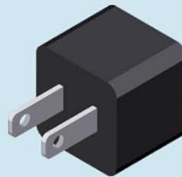
Battery Life About **10** hours

Wireless Air Earpiece-190mAh Battery
Wireless PTT button - 250mAh Battery



Charging time

About **2** hours



Connection Stability

increasing **99%**



Figure 5.1: Battery performance and charging details.

This graphic highlights the impressive battery life and quick charging capabilities of the SAMCOM BTEAR01 headset.

5.2 Connecting the Dongle to Your Radio

The 2-pin dongle features a standard K-type plug, compatible with many two-way radios, including Kenwood and SAMCOM models. Simply insert the dongle into the accessory port of your compatible radio. Ensure a secure connection.

HD Voice & Hands-free Conversation

2 Pin K Head

SAMCOM	Motorola	Midland
✓	✗	✗

Noise reduction technology enables smooth and clear call

High Quality Sound

Noise Reduction

Before After

Figure 5.2: Compatibility diagram for 2-pin K head radios.

This image visually confirms the compatibility of the 2-pin K head with Kenwood radios, while indicating incompatibility with Motorola and Midland models.

5.3 Pairing the Headset

Once the dongle is connected to your radio and both the earpiece and dongle are charged, power them on. The devices are designed for automatic pairing, typically connecting within 3 seconds. A successful connection will be indicated by a status light on both units.

Easy to Connect

Plug in Walkie Talkies-Switch On-Auto Pairing



Figure 5.3: Easy connection and auto-pairing process.

This graphic emphasizes the simplicity of connecting and automatically pairing the headset with your two-way radio.

6. Operating Instructions

6.1 Wearing the Earpiece

Insert the acoustic coil tube earpiece into your ear. The transparent tube is designed to be discreet and comfortable for extended wear. Adjust the tube and eartip for a snug and secure fit. The lightweight design and coiled tube reduce tangling and improve comfort.



Figure 6.1: Proper wearing of the acoustic tube earpiece.

This image demonstrates how the transparent acoustic tube earpiece is worn, emphasizing its discreet and comfortable fit for all-day use.

6.2 Using the PTT Button

To transmit, press and hold the Push-to-Talk (PTT) button located on the wireless earpiece. Release the button to stop transmitting and return to receive mode. Ensure the PTT button is fully pressed for clear transmission.

6.3 Audio Quality and Noise Reduction

The headset features a noise-reducing microphone and HD sound technology to block background noise, ensuring crystal-clear communication even in loud environments such as warehouses, construction sites, or busy events.

Noise-Cancelling Headset with PTT



Figure 6.2: Noise-cancelling feature in action.

This image visually represents the effectiveness of the headset's noise-cancelling capabilities, showing a clearer sound wave after noise reduction.

6.4 Operating Range

The Bluetooth connection between the earpiece and the dongle has an effective range of up to 10 meters (approximately 33 feet). Maintain this distance for optimal signal quality and stable communication.

7. Maintenance

Regular maintenance ensures the longevity and performance of your SAMCOM BTEAR01 headset:

- **Cleaning:** Wipe the earpiece, acoustic tube, and dongle with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** To preserve battery life, avoid fully discharging the batteries frequently. Charge the device regularly, especially if it will not be used for an extended period.
- **Storage:** Store the headset in a cool, dry place away from direct sunlight and extreme temperatures.

8. Troubleshooting

If you encounter issues with your SAMCOM BTEAR01 headset, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No audio from earpiece	Low battery; Dongle not properly connected; Incorrect radio settings (e.g., channel/frequency mode); Pairing issue; Incompatible radio.	Charge both units; Ensure dongle is fully inserted; Check radio's channel/frequency settings; Re-pair the devices; Verify radio compatibility (2-pin K type).
Crackling or distorted audio	Out of range; Interference; Low battery; Loose connection.	Move closer to the radio; Avoid sources of strong electromagnetic interference; Charge units; Re-seat the dongle.
Audio leakage from lapel unit	Volume too high; Design characteristic (less discreet in quiet environments).	Adjust radio volume to a lower setting; Note that some audio may be audible in very quiet settings.
Headset not pairing	Units not powered on; Out of range; Interference; Low battery.	Ensure both earpiece and dongle are powered on; Bring units closer; Move away from other electronic devices; Charge units.

If the problem persists after trying these solutions, please contact SAMCOM customer support for further assistance.

9. Specifications

Feature	Detail
Model Number	BTEAR01
Connectivity Technology	Wireless (Bluetooth)
Headphones Jack	2 Pin K head (3.5 mm & 2.5 mm)
Battery Life	10+ Hours (Talk Time)
Charging Time	2 Hours
Bluetooth Range	10 Meters
Noise Control	Adaptive Noise Cancellation
Item Weight	0.32 ounces (0.02 Pounds)
Product Dimensions	1.4 x 0.78 x 0.78 inches
Material	Silicone (Eartips)
Water Resistance Level	Water Resistant
Compatible Devices	SAMCOM Two Way Radio Walkie Talkie, Kenwood, other 2-pin radios
Incompatible Devices	Midland, Motorola, non-2-pin devices

10. Warranty and Support

For warranty information or technical support, please contact SAMCOM customer service. You can find more information and contact details by visiting the official SAMCOM store on Amazon:

[Visit the SAMCOM Store](#)

Please have your product model number (BTEAR01) and purchase details ready when contacting support.