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FreedConn TCOM-SC-800M

FreedConn TCOM-SC Motorcycle Helmet Bluetooth Intercom System User Manual

Model: TCOM-SC-800M | Brand: FreedConn

Introduction

Welcome to the user manual for your FreedConn TCOM-SC Motorcycle Helmet Bluetooth Intercom System. This device is engineered to provide seamless communication and entertainment while riding, ensuring safety and convenience. It features Bluetooth connectivity for mobile phones, MP3 players, and GPS, an integrated FM radio, and advanced noise control technology for crystal-clear audio. Please read this manual thoroughly to understand the proper operation and maintenance of your intercom system.

Product Overview and Structure

The FreedConn TCOM-SC unit is designed for easy integration with most motorcycle helmets. Below is an overview of the main components and their functions.

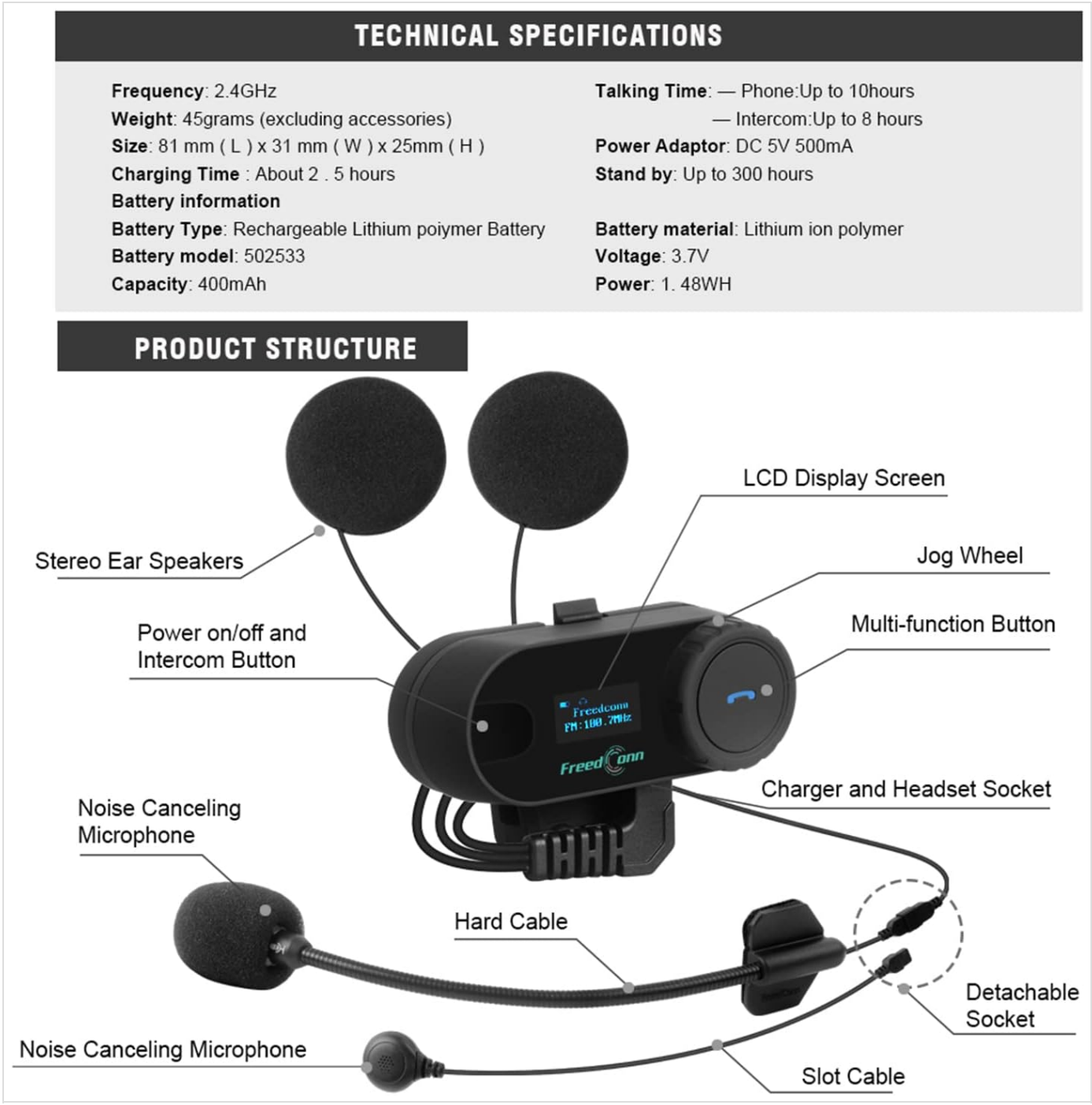


Figure 1: Product Structure and Technical Specifications. This diagram illustrates the main parts of the intercom unit including the LCD display screen, jog wheel, multi-function button, power on/off and intercom button, noise-canceling microphone, stereo ear speakers, charger and headset socket, hard cable, soft cable, and detachable socket. Key technical specifications such as frequency, weight, size, charging time, battery information, talking time, power adaptor, and standby time are also listed.

- **LCD Display Screen:** Provides visual information on operating status, FM frequency, and battery level.
- **Jog Wheel:** Used for volume control, music track skipping, and FM channel switching.
- **Multi-function Button (MFB):** Controls various functions including power, intercom, phone calls, and music playback.
- **Noise Canceling Microphone:** Ensures clear voice transmission by reducing background noise.
- **Stereo Ear Speakers:** Deliver high-fidelity audio for communication, music, and GPS prompts.
- **Charger and Headset Socket:** Port for charging and connecting the headset.



Figure 2: Key Features. This image highlights the primary functionalities: 2 riders intercom / 3 riders connection, hands-free calls, stereo music, FM radio, advanced noise control, link to phone, water resistance, and rechargeable battery.

Setup and Installation

Proper installation ensures optimal performance and comfort.

Component Installation



Figure 3: Easy Installation Steps. This visual guide demonstrates how to attach the intercom unit to a helmet using the provided clip, connect the speakers and microphone, and secure the wiring within the helmet.

1. **Attach the Intercom Unit:** Use the sticky clamp or headset clip to securely mount the intercom unit to the side of your helmet. Ensure it is firmly attached and does not obstruct your vision or movement.
2. **Install Speakers:** Place the stereo ear speakers inside the helmet's ear pockets. Use the felted adhesive earphone pads to secure them in place and ensure they are positioned directly over your ears for the best audio quality.
3. **Connect Microphone:** Choose between the hard mic cord (for modular and half helmets) or the soft mic cord (for full-face helmets). Connect the chosen microphone to the intercom unit and position it close to your mouth for clear voice pickup.
4. **Route Cables:** Carefully route all cables inside the helmet lining to prevent tangling and ensure a neat installation.

Initial Charging

Before first use, fully charge the intercom unit. Connect the provided USB cable to the charging port on the unit and plug it into any standard USB power adapter (not included). Charging typically takes about 2.5 hours.

Operating Instructions

This section details how to use the various functions of your FreedConn TCOM-SC intercom system.

Power On/Off

- **Power On:** Press and hold the Power On/Off button for approximately 2 seconds until the LCD screen illuminates.
- **Power Off:** Press and hold the Power On/Off button for approximately 5 seconds until the LCD screen turns off.

Bluetooth Pairing (Phone/GPS/MP3)

The TCOM-SC can connect wirelessly to your Bluetooth-enabled devices.

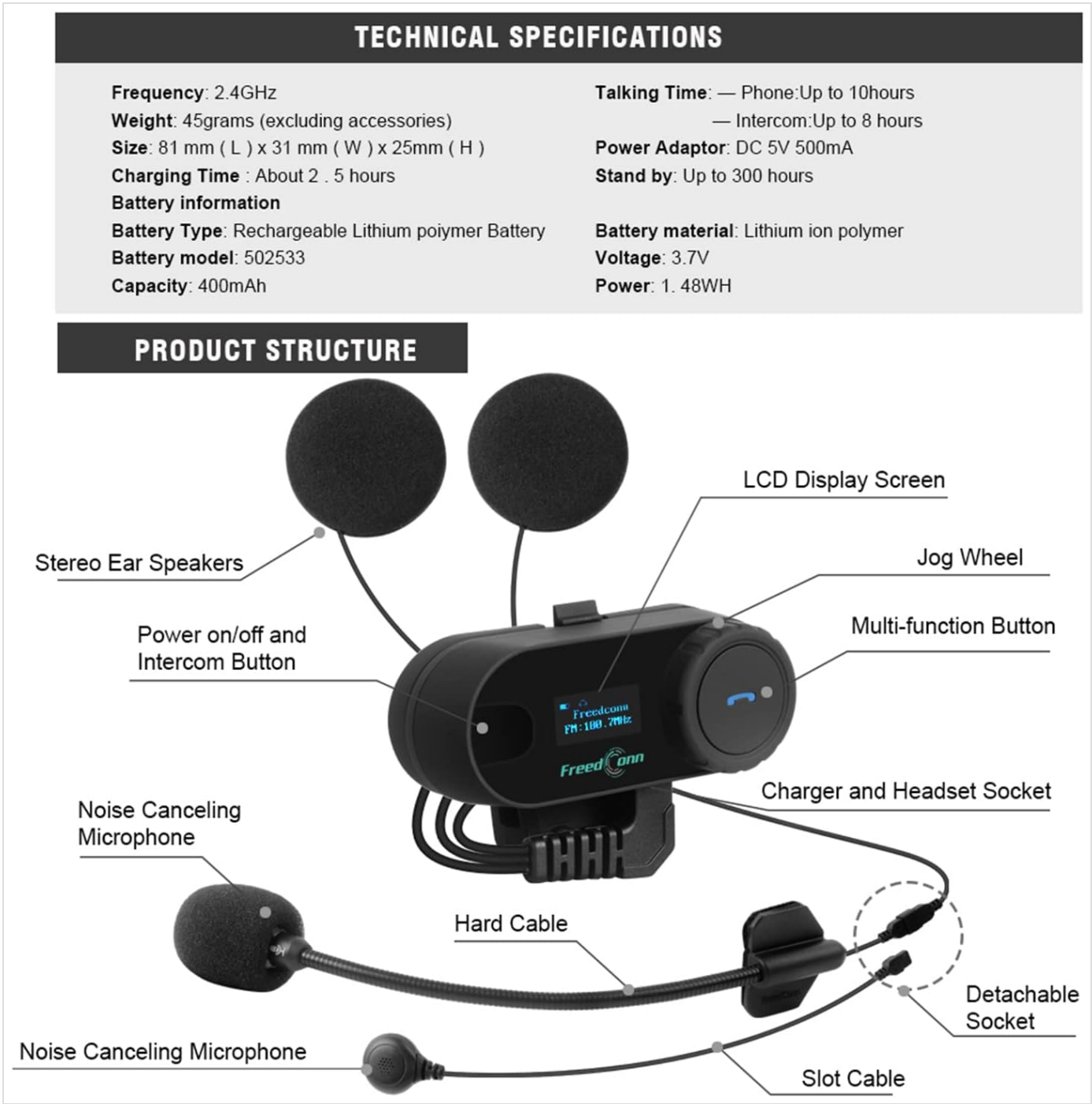


Figure 4: Bluetooth Pairing. This image shows the intercom unit connecting to a cell phone, GPS, and another Bluetooth intercom for A2DP stereo music and communication.

1. Ensure the TCOM-SC is powered off.
2. Press and hold the Multi-function Button (MFB) for approximately 8 seconds until the red and blue indicator lights flash alternately, indicating pairing mode. You will hear a voice prompt "Pairing".
3. On your phone, GPS, or MP3 player, enable Bluetooth and search for new devices. Select "FreedConn" from the list of available devices.

4. Once connected, the indicator light will turn blue and flash slowly. You will hear a voice prompt "Connected".

Intercom Communication

The TCOM-SC supports intercom communication between two riders simultaneously, with up to three riders connected in total.



Figure 5: 3 Riders Pairing / 2 Riders Talking at the Same Time. This image illustrates the capability of the intercom system to connect up to three riders, with two able to engage in simultaneous conversation.

To pair two TCOM-SC units for intercom:

Your browser does not support the video tag.

Video 1: How to pair between NEW version and OLD version of TCOM SC. This video demonstrates the step-by-step process for pairing two FreedConn TCOM-SC intercom units, including both newer Bluetooth 5.0 and older Bluetooth 3.0 versions, for intercom communication.

1. Ensure both intercom units (Unit A and Unit B) are powered off.
2. On Unit B, press and hold the "B" button (Multi-function Button) for 8 seconds until the red and blue lights flash alternately. You will hear a "Beep" sound on older versions.
3. On Unit A, first hold down the power on/off button for 2 seconds to power it on. Then, immediately press and hold the Multi-function Button for 8 seconds until the red and blue lights flash alternately. You will hear "Pairing" on newer versions.
4. Once both units are in pairing mode, they will automatically search for each other. When successfully paired, you will hear "Connected" on both units, and the lights will change to a slow blue flash.
5. To initiate intercom conversation, click the power on/off button on Unit A. To end the conversation, click the power on/off button on Unit A again.

FM Radio

The built-in FM radio allows you to listen to broadcasts while riding.

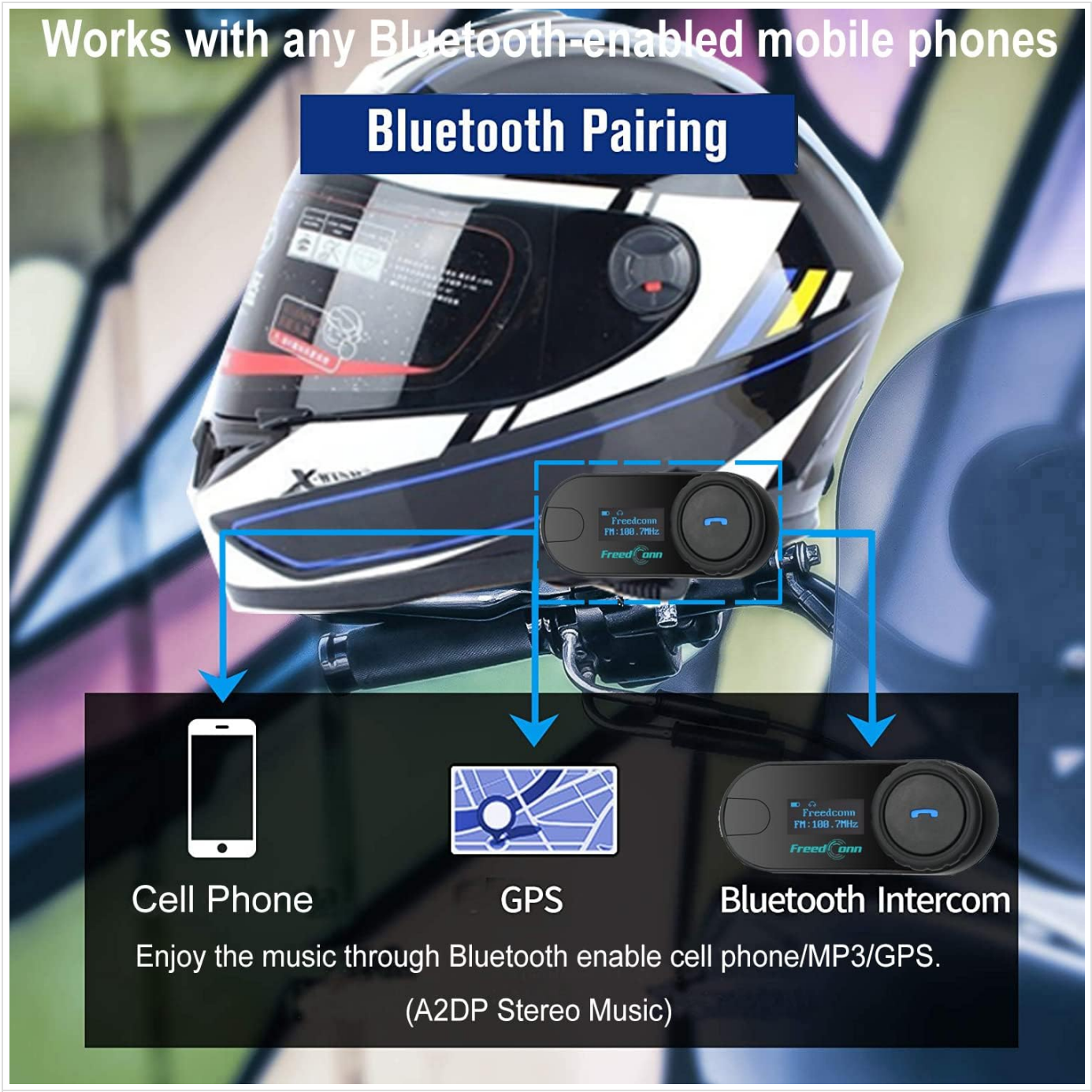


Figure 6: LCD Screen Displaying FM Radio. The LCD screen clearly shows the current FM frequency, making it easy to tune into your preferred stations.

- **Turn On/Off FM Radio:** Double-press the Multi-function Button (MFB) to activate or deactivate the FM radio.
- **Change Station:** Turn the Jog Wheel to scan for the next available FM station.

Phone Call Functions

Manage your phone calls hands-free while riding.

- **Answer Call:** Press the Multi-function Button (MFB) once when a call comes in.
- **Reject Call:** Press and hold the Multi-function Button (MFB) for 2 seconds to reject an incoming call.
- **End Call:** Press the Multi-function Button (MFB) once during a call to hang up.
- **Redial Last Number:** Hold the Multi-function Button (MFB) for 2 seconds in standby mode to redial the last dialed number.
- **Voice Dialing:** If your phone supports voice dialing, you can activate it by pressing the MFB twice.

Music Playback

Enjoy your favorite music wirelessly from your connected device.

- **Play/Pause:** Press the Multi-function Button (MFB) once to play or pause music.
- **Next Track:** Turn the Jog Wheel clockwise to skip to the next song.
- **Previous Track:** Turn the Jog Wheel counter-clockwise to go to the previous song.

Volume Control

Adjust the audio volume for all functions.

- **Increase Volume:** Turn the Jog Wheel clockwise.
- **Decrease Volume:** Turn the Jog Wheel counter-clockwise.



Figure 7: Control Layout and Functions. This image provides a comprehensive guide to the buttons and the jog wheel on the intercom unit, detailing their respective functions for music control, FM radio, volume adjustment, and call management.

Maintenance

To ensure the longevity and optimal performance of your FreedConn TCOM-SC intercom system, follow these maintenance guidelines:

- **Cleaning:** Wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** The unit features a water-resistant design (IPX5), suitable for use in light rain. However, avoid submerging the device in water or exposing it to heavy downpours for extended periods.
- **Storage:** Store the device in a cool, dry place when not in use. Avoid extreme temperatures.
- **Battery Care:** For optimal battery life, charge the unit regularly and avoid fully discharging it for prolonged periods.

Troubleshooting

If you encounter issues with your FreedConn TCOM-SC, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No sound from speakers or only one side has sound.	Ensure the speaker port is tightly plugged in. If the issue persists, the speakers may be faulty. Ensure speakers are placed directly over your ears for louder sound.
Cannot achieve 3-person intercom.	The TCOM-SC (and TCOM VB, BM2-S) Bluetooth Helmet intercom systems support 3 riders connecting but only 2 riders can intercom simultaneously.
Device not powering on.	Battery may be depleted. Charge the device for at least 2.5 hours.
Cannot pair with other Bluetooth devices.	Ensure the intercom is in pairing mode (red and blue lights flashing alternately). Make sure the other device's Bluetooth is enabled and discoverable. Try restarting both devices.
Intercom range is shorter than expected.	Obstacles (buildings, terrain) and electromagnetic interference can reduce range. Ensure clear line of sight between units for optimal performance.

Specifications

Detailed technical specifications for the FreedConn TCOM-SC intercom system:

Feature	Detail
Model Name	TCOM-SC-800M
Connectivity Technology	Wireless (Bluetooth)
Bluetooth Version	3.0
Frequency Response	2.4 GHz
Bluetooth Range	Up to 10 meters (phone/MP3)
Intercom Range	Up to 800 meters (rider to rider, open space)
Battery Life (Phone)	Up to 10 hours
Battery Life (Intercom)	Up to 7 hours
Standby Time	Up to 300 hours
Charging Time	Approximately 2.5 hours
Item Weight	45 Grams (excluding accessories)
Product Dimensions	81mm (L) × 31mm (W) × 25mm (H)
Water Resistance Level	Water Resistant (IPX5)
Noise Control	Active Noise Cancellation (DSP echo cancellation and noise suppression)
Compatible Devices	Cellphones, MP3 Players, GPS Systems

What's in the Box

Your FreedConn TCOM-SC package includes the following components:



Figure 8: Package Contents. This image displays all items included in the FreedConn TCOM-SC kit, such as the intercom units, various microphones, speakers, mounting hardware, and cables.

- 2x Motorcycle Intercom System Units
- 2x Stereo Headphones (including changeable hard mic and soft mic)
- 2x Screw Driver
- 2x Sticky Clamp
- 2x Headsets Clip
- 2x USB Cable
- 1x User Manual
- 8x Felted Adhesive Earphone Pads

Warranty and Support

For detailed warranty information, please refer to the documentation provided with your product or visit the official FreedConn website. For further support or inquiries, you may contact FreedConn customer service or visit their official store page on Amazon.

Visit the FreedConn Store on Amazon

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