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FreedConn TCOM-SC Helmet Bluetooth Headset

FreedConn T-COM SC Motorcycle Helmet Communication System User Manual

Model: TCOM-SC Helmet Bluetooth Headset

1. Introduction

Welcome to the FreedConn T-COM SC Motorcycle Helmet Communication System. This manual provides detailed instructions for the proper installation, operation, and maintenance of your device. The T-COM SC is designed to enhance your riding experience with features like 2-way intercom, Bluetooth 5.0 connectivity, music sharing, FM radio, and hands-free calling.



Image: Two FreedConn T-COM SC main units, showcasing their design and LCD screens.

2. Package Contents

The FreedConn T-COM SC package includes the following items:

- 2 x FreedConn T-COM SC Main Units
- 2 x Headset with 2-in-1 Replaceable Hard and Soft Microphones
- 2 x USB Charging Cables
- 2 x Helmet Mounting Brackets (Clip-on)
- 2 x Adhesive Mounting Brackets
- 4 x Speaker Velcro Pads
- 4 x Microphone Velcro Pads
- 1 x Hex Key (for clip-on bracket)
- 1 x User Manual



Image: All components of the FreedConn T-COM SC communication system, including main units, headsets, microphones, mounting options, and cables.

3. Setup

3.1. Helmet Installation

The T-COM SC offers two primary methods for mounting the main unit to your helmet: a clip-on bracket or an adhesive bracket. Choose the method best suited for your helmet type and preference.

Method 1: Clip-on Bracket

1. Select a suitable location on the left side of your helmet, typically near the bottom edge, where the bracket can securely grip the helmet shell.
2. Use the provided hex key to loosen the screws on the clip-on bracket.
3. Slide the bracket onto the helmet edge, ensuring a firm fit. Tighten the screws to secure the bracket.
4. Slide the T-COM SC main unit onto the installed bracket until it clicks into place.

Method 2: Adhesive Bracket

1. Clean the chosen mounting area on your helmet thoroughly with an alcohol wipe and allow it to dry completely.
2. Peel off the protective backing from the adhesive bracket.
3. Firmly press the adhesive bracket onto the helmet surface for at least 30 seconds. Allow the adhesive to cure for several hours before attaching the main unit.
4. Slide the T-COM SC main unit onto the installed adhesive bracket until it clicks into place.



Image: Step-by-step visual guide for installing the FreedConn T-COM SC unit onto a helmet, showing bracket attachment and main unit slide-in.

▶ **Watch video online**
Helmet Installation for XGP Motorcycle Headset

Video: Demonstrates the process of installing a motorcycle Bluetooth headset onto a helmet, including removing lining and attaching the main unit.

▶ **Watch video online**
H2E Installation Instruction

Video: Provides detailed installation instructions for the H2E helmet communication system, covering all necessary steps for setup.

▶ **Watch video online**
Installation and removal of the host

Video: Short demonstration of how to install and remove the main unit of the communication system from its helmet bracket.

3.2. Speaker and Microphone Placement

Proper placement of speakers and microphone is crucial for optimal audio quality and communication.

1. Remove the helmet's inner lining or cheek pads if possible to route cables neatly.
2. Attach the speaker pads to the inside of the helmet, aligning them with your ears. Use the provided Velcro pads.
3. Route the speaker wires under the helmet lining to the main unit connector.
4. Attach the microphone to the inside of the helmet, positioning it close to your mouth. Use the appropriate microphone (hard boom for 3/4 or half helmets, soft wire for full-face helmets).
5. Connect the speaker and microphone cables to the main unit.
6. Reinstall the helmet lining/cheek pads, ensuring all cables are tucked away and do not interfere with comfort or safety.

3.3. Device Pairing

The T-COM SC supports intercom pairing with other units and Bluetooth pairing with mobile phones.

Intercom Pairing (T-COM SC to T-COM SC)

1. Ensure both T-COM SC units are powered off.
2. On both units, press and hold the Power/Intercom button for approximately 7-8 seconds until the LED flashes red and blue, indicating pairing mode.
3. Short press the Power/Intercom button on one of the units. It will search for the other unit.
4. Once paired, the LED on both units will flash blue slowly, and you will hear "Intercom Connected".

Bluetooth Pairing (T-COM SC to Phone)

1. Ensure the T-COM SC unit is powered off.
2. Press and hold the Power/Intercom button for approximately 5-7 seconds until the LED flashes red and blue, indicating pairing mode.
3. On your mobile phone, enable Bluetooth and search for "FreedConn T-COM SC" (or similar).
4. Select the device to pair. Once connected, the LED will flash blue slowly.

▶ **Watch video online**
TCOM SC Mew Version BT5.0 paired with Old Version BT3.0

Video: Instructions on how to pair a new version TCOM SC Bluetooth 5.0 unit with an older version TCOM 3.0 unit.

▶ **Watch video online**
2 Pcs T-COM SC pairing.USB not tight cause 2 in 1Mic BT5.0

Video: Shows the pairing process between two FreedConn T-COM SC units, highlighting the connection steps.

▶ **Watch video online**
60" to learn about the new version and old pair it with

Video: A quick guide to pairing new and old versions of FreedConn T-COM devices.

4. Operating

4.1. Power On/Off

- **Power On:** Press and hold the Power/Intercom button for 2 seconds.
- **Power Off:** Press and hold the Power/Intercom button for 5 seconds.

4.2. Intercom Communication

- **Start Intercom:** Short press the Power/Intercom button on either paired unit.
- **End Intercom:** Short press the Power/Intercom button again.

4.3. Phone Calls

- **Answer Call:** Short press the Multi-function button.
- **Reject Call:** Press and hold the Multi-function button for 2 seconds.
- **End Call:** Short press the Multi-function button.
- **Voice Dial:** Press and hold the Multi-function button for 2 seconds (when not on a call).
- **Automatic Answering:** The device can be configured to automatically answer calls. This feature can be turned off via settings.

4.4. Music Playback

- **Play/Pause:** Short press the Multi-function button.
- **Next Track:** Rotate the Jog Wheel clockwise.
- **Previous Track:** Rotate the Jog Wheel counter-clockwise.
- **Music Sharing:** Two Bluetooth 5.0 TCOM SC/VB units can share music from one smartphone.



Image: Two riders on motorcycles, illustrating the music sharing feature between two FreedConn T-COM SC units.

4.5. FM Radio

- **Turn On/Off FM:** Double-click the Multi-function button.
- **Next Station:** Rotate the Jog Wheel clockwise.
- **Previous Station:** Rotate the Jog Wheel counter-clockwise.

4.6. Volume Adjustment

- Rotate the Jog Wheel clockwise to increase volume.
- Rotate the Jog Wheel counter-clockwise to decrease volume.

4.7. Audio Multitasking

The T-COM SC allows you to listen to music, FM radio, or GPS voice prompts while riding. It enables seamless switching between phone calls, intercom, and music.



Image: Diagram illustrating key features of the FreedConn T-COM SC, including Bluetooth 5.0, music share, FM radio, and advanced noise control.

5. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the main unit. Avoid harsh chemicals.
- **Water Resistance:** The device is IP65 rated, meaning it is protected against dust and low-pressure water jets. Do not submerge the device in water.

- **Battery Care:** Charge the device regularly. Avoid extreme temperatures during storage.

6. Troubleshooting

- **No Power:** Ensure the battery is charged. Connect to a power source using the USB cable.
- **Cannot Pair:** Ensure both devices are in pairing mode (red and blue flashing LED). Clear previous pairing history if necessary.
- **No Sound/Low Volume:** Check speaker connections. Adjust volume using the Jog Wheel. Ensure speakers are correctly positioned over your ears inside the helmet.
- **Intercom Disconnects:** Ensure units are within the 800m range. Obstacles or interference can reduce range.
- **Poor Microphone Quality:** Ensure the microphone is positioned correctly near your mouth and not obstructed. Use the appropriate microphone type for your helmet.

7. Specifications

Feature	Detail
Model Name	TCOM SC Motorcycle Bluetooth
Bluetooth Version	5.0
Intercom Range	Up to 800 meters (2-way)
Max Intercom Users	Up to 3 people pairing (2-way real-time)
Battery Life	10 hours talk time (phone), 7 hours intercom time, 300 hours standby time
Charging Time	2.5 Hours
Water Resistance Level	IP65
Noise Control	DSP echo cancellation, CVC noise suppression
Connectivity	Wireless (Bluetooth), Micro USB
Control Type	Touch Control (Jog Wheel, Multi-function button)
Special Features	LCD screen display, 2-in-1 microphone, music sharing, FM radio, universal pairing with other brands

8. Warranty & Support

For warranty information and technical support, please refer to the contact details provided in your product packaging or visit the official FreedConn website.

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