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FreedConn TCOM-VB

FreedConn TCOM-VB Motorcycle Helmet Bluetooth Intercom Headset

User Manual

1. Product Overview

The FreedConn TCOM-VB is a versatile Bluetooth intercom system designed for motorcycle helmets, enabling hands-free communication, music playback, FM radio, and GPS navigation audio. It supports communication between 2 or 3 riders with a range of up to 800 meters (suburb) and offers advanced noise cancellation for clear audio.



Figure 1: FreedConn TCOM-VB Dual Pack Intercom Units



Figure 2: Key Features of FreedConn TCOM-VB

Key Features:

- Hands-free Bluetooth connectivity for mobile phones.
- Automatic call reception and redialing.
- A2DP support for music playback.
- GPS voice navigation transmission.
- Rider-to-rider intercom up to 800 meters.
- DSP echo cancellation and noise suppression technology.
- Audio Multitasking technology.
- FM Radio functionality.

- Water-proof and sun-proof design.
- Up to 300 hours standby time.

2. Setup

2.1. Installation Procedure

Follow these steps to properly install the FreedConn TCOM-VB unit onto your helmet:

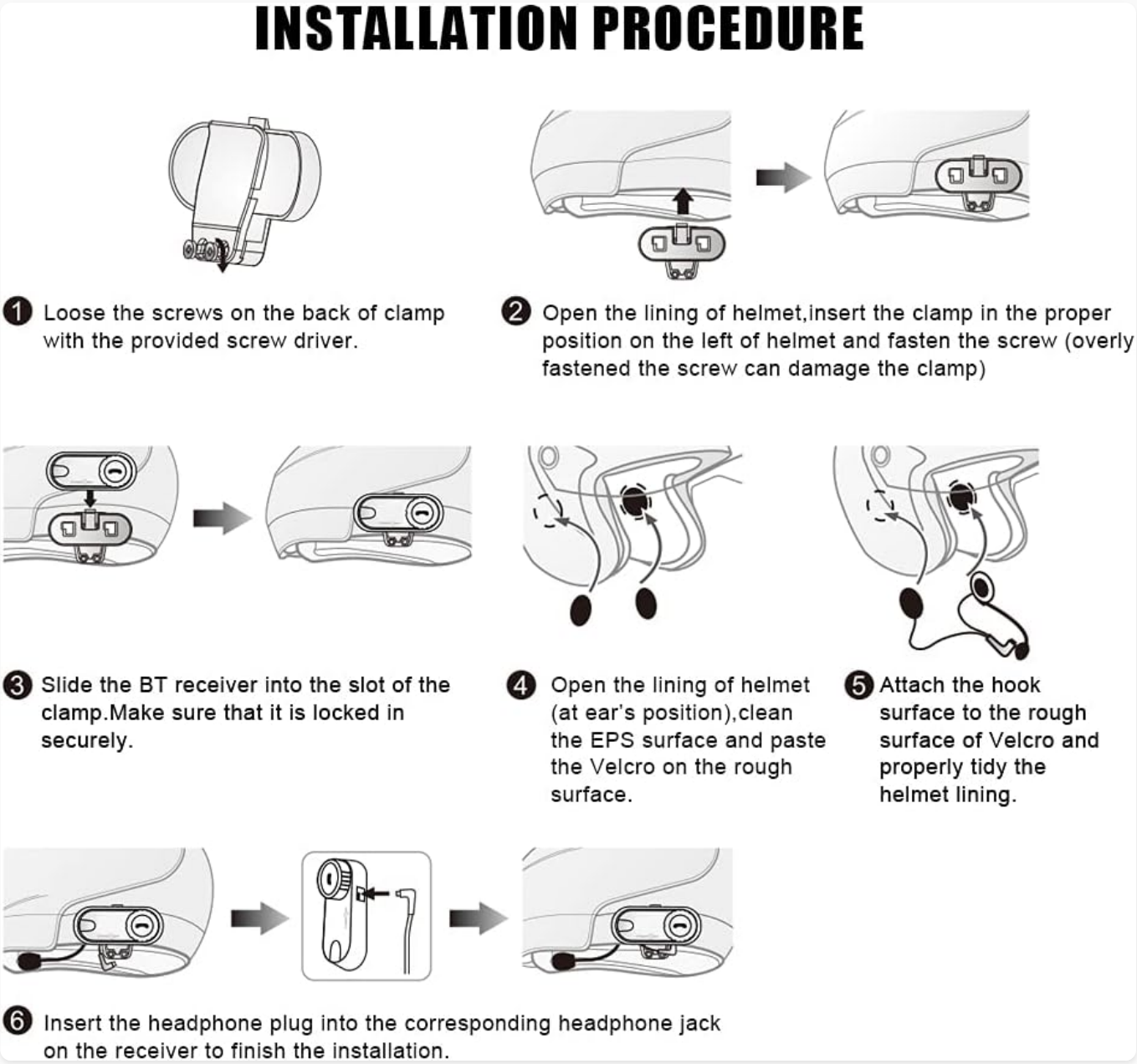

Figure 3: Detailed Installation Procedure

1. Loosen the screws on the back of the clamp with the provided screwdriver.
2. Open the lining of the helmet, insert the clamp in the proper position on the left side of the helmet, and fasten the screw. (Note: Overly fastened screws can damage the clamp).
3. Slide the Bluetooth receiver into the slot of the clamp. Ensure it is locked securely.
4. Open the lining of the helmet (at ear's position), clean the EPS surface, and paste the Velcro on the rough surface.
5. Attach the hook surface to the rough surface of the Velcro and properly tidy the helmet lining.

6. Insert the headphone plug into the corresponding headphone jack on the receiver to finish the installation.

2.2. Charging the Device

Before first use, fully charge the device. Connect the charging cable to the unit's charging port and a suitable USB power adapter (DC 5V 500mA). The battery type is Rechargeable Lithium Polymer (model 502533, 3.7V, 400mAh). Charging time is approximately 2.5 hours. A full charge provides up to 10 hours of phone talk time, 8 hours of intercom use, and 300 hours of standby time.



Figure 4: Battery Information and DSP Noise Cancellation

3. Operating Instructions

3.1. Power On/Off

- **Power On:** Press and hold the Power On/Off button for approximately 3 seconds until the indicator light flashes.

- **Power Off:** Press and hold the Power On/Off button for approximately 3 seconds until the indicator light turns off.

3.2. Bluetooth Pairing with Cellphone

To pair your TCOM-VB unit with your mobile phone:

1. Ensure the TCOM-VB unit is off.
2. Press and hold the Power On/Off button for 8 seconds until you see the red and blue lights flashing alternatively. This indicates pairing mode.
3. On your mobile phone, enable Bluetooth and search for available devices.
4. Select "T-COM" from the list of devices. Once connected, the blue light will flash regularly.

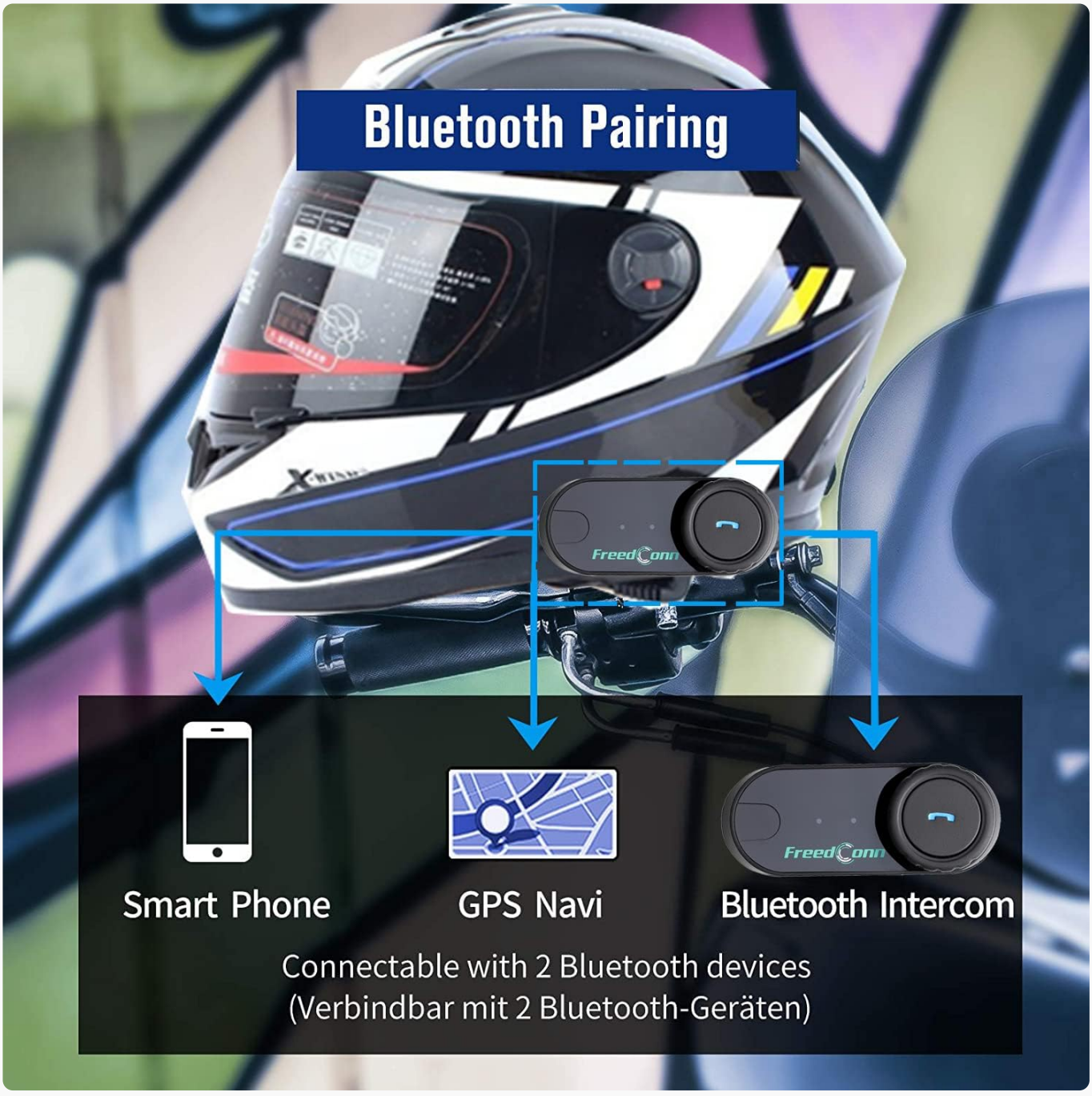

Figure 5: Bluetooth Pairing with Smart Phone and GPS Navi

▶ **Watch video online**

Video 1: How to pair between NEW version and OLD version of TCOM-VB. This video demonstrates the pairing process for different versions of the TCOM unit.

3.3. Intercom Pairing (2 Riders)

To establish intercom communication between two TCOM-VB units:

1. Ensure both TCOM-VB units are off.
2. On both units, press and hold the On/Off button and the Intercom button simultaneously for 8 seconds until you see the red and blue lights flashing alternatively. This puts both units into pairing mode.
3. Quickly press the On/Off button on either TCOM-VB unit. It will then search for the other T-COM VB for pairing.
4. When the blue light flashes regularly on both units, it means pairing is successful. You can now start talking.
5. To stop talking, click the On/Off button on either device.



Figure 6: Two Riders Long Distance Intercom

3.4. Intercom Pairing (3 Riders)

For three-way intercom communication, follow these steps:

1. Firstly, pair two devices (A and B) as described in section 3.3.
2. Secondly, turn off devices A and B. Then, pair device A and device C using the same method (press and hold On/Off and Intercom buttons for 8 seconds on both, then quickly press On/Off on A).
3. Thirdly, turn off device C and device A. Then, pair device B and device C using the same method.
4. Finally, turn on device A. All three devices should now be connected for intercom.
5. To initiate a call from device A to C, press the On/Off and Intercom button once. To call B, press it twice.
6. To initiate a call from device B to C, press the On/Off and Intercom button once. To call A, press it twice.
7. To initiate a call from device C to A, press the On/Off and Intercom button once. To call B, press it twice.

3.5. Music Playback

Once paired with your mobile phone, you can enjoy music through your TCOM-VB unit.

- **Play/Pause:** Press the Multi-Function Button (MFB) once to start or stop music playback when the music player is running on your phone.
- **Volume Adjustment:**
  - Volume Up: Turn the Jog Wheel anticlockwise and hold until the desired volume is reached.
  - Volume Down: Turn the Jog Wheel clockwise and hold until the desired volume is reached.
  - You will hear a long beep if the volume reaches the highest or lowest level.
- **Switch Songs:**
  - Next Song: Turn the Jog Wheel clockwise.
  - Previous Song: Turn the Jog Wheel counter-clockwise.

▶ **Watch video online**

Video 2: T-COM VB Music Sharing. This video illustrates how to share music between two paired TCOM-VB units.

3.6. Phone Calls

Manage your phone calls hands-free while riding.

- **Auto Answering Call:** The incoming call will answer automatically once the phone has rung for 15 seconds. You can also press the MFB once to answer immediately.
- **Hang Up:** Press the MFB once to end the call.
- **Reject Call:** Press and hold the MFB for 2 seconds until you hear a beep.
- **Redial Last Number:** Press and hold the MFB for 2 seconds until you hear a "bee" sound, then release your finger.

3.7. FM Radio

The TCOM-VB includes an integrated FM radio.

- **Turn On/Off:** Double press the MFB to start or stop the FM Radio. This function works when there is no active call or intercom.
- **Channel Switching:**
  - Next Channel: Turn the Jog Wheel clockwise.
  - Previous Channel: Turn the Jog Wheel counter-clockwise.

4. Maintenance

To ensure the longevity and optimal performance of your FreedConn TCOM-VB unit, 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-proof design, suitable for various weather conditions. However, avoid prolonged submersion in water.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place. It is recommended to fully charge the battery every 3 months to maintain battery health.
- **Temperature:** Avoid exposing the unit to extreme temperatures (hot or cold), as this can affect battery life and overall performance.

5. Troubleshooting

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

Problem	Possible Cause	Solution
Unit does not power on	Low battery; Unit malfunction	Charge the unit fully; Contact support if issue persists.
Cannot pair with phone/intercom	Incorrect pairing mode; Distance too far; Interference	Ensure unit is in pairing mode (red/blue flashing); Reduce distance between devices; Move away from other electronic devices.
No audio or low volume	Volume too low; Speaker/microphone connection issue; Speaker placement	Adjust volume using Jog Wheel; Check all cable connections; Ensure speakers are correctly positioned in helmet.
Intercom disconnects frequently	Out of range; Obstructions; Interference	Stay within effective intercom range; Minimize obstructions; Avoid areas with strong electromagnetic interference.
FM Radio not working	Not in FM mode; Weak signal	Double press MFB to activate FM mode; Move to an area with better signal reception.

6. Specifications

Detailed technical specifications for the FreedConn TCOM-VB unit:

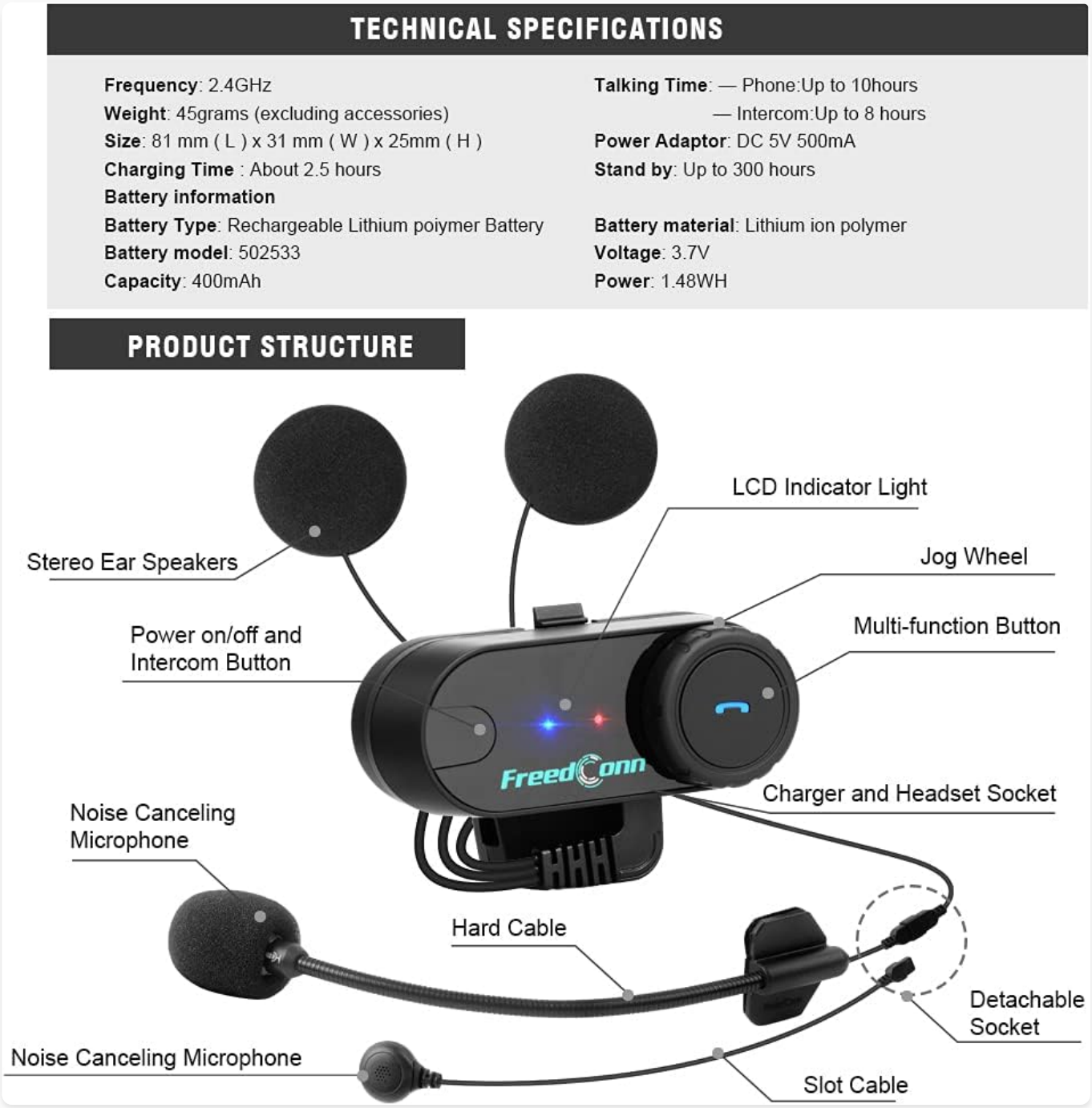

Figure 7: Technical Specifications and Product Structure

Specification	Detail
Brand	FreedConn
Model	TCOM-VB
Bluetooth Version	3.0
Frequency	2.4GHz
Weight (excluding accessories)	45 grams
Dimensions (L x W x H)	81mm x 31mm x 25mm
Battery Type	Rechargeable Lithium Polymer Battery

Specification	Detail
Battery Model	502533
Battery Capacity	400mAh
Voltage	3.7V
Power Adaptor	DC 5V 500mA
Charging Time	About 2.5 hours
Talking Time (Phone)	Up to 10 hours
Talking Time (Intercom)	Up to 8 hours
Standby Time	Up to 300 hours
Noise Control	Active Noise Cancellation
Ear Placement	In Ear
Form Factor	In Ear
Color	Black

7. Warranty

FreedConn products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty against defects in materials and workmanship. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation provided with your purchase or contact FreedConn customer support.

8. Support

For further assistance, technical support, or inquiries regarding your FreedConn TCOM-VB, please visit the official FreedConn website or contact their customer service department. Detailed contact information can typically be found on the product packaging or the brand's official online presence.

You can also visit the FreedConn Store on Amazon for product information and updates:FreedConn Store

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