

FreedConn FX

FreedConn FX Motorcycle Helmet Bluetooth Intercom System User Manual

MODEL: FX

Brand: FreedConn

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1. Product Overview

The FreedConn FX Motorcycle Helmet Bluetooth Intercom System is designed to provide clear and reliable communication for motorcyclists. Featuring Qualcomm Dual-Core Bluetooth 5.1 technology, it ensures stable connections and high-quality audio. This system supports group intercom, music sharing, and hands-free calling, all while offering robust IP67 waterproof and dustproof protection.

FreedConn FX Helmet Communication



Image: FreedConn FX Helmet Communication System unit mounted on a helmet, highlighting its features like intercom, noise reduction, music sharing, and IP67 waterproof rating.

Key Features:

- **Qualcomm Dual-Core Bluetooth 5.1:** Ensures high-speed transmission, low latency, and minimal distortion.
- **Group Intercom:** Supports communication among 2-10 riders over distances up to 1500 meters (two riders up to 400 meters).
- **Passive Connection:** Compatible with most brands for communication between two riders over 500 meters.
- **Dual Noise Reduction:** Intelligent CVC and DSC technologies for clear audio up to 120 km/h.
- **HI-RES High-Fidelity Audio:** Certified for superior sound quality, with 500-meter music sharing between two earphones.
- **IP67 Waterproof & Dustproof:** Designed for durability in various weather conditions.
- **Long Battery Life:** 1100mAh battery provides up to 30 hours of intercom talk time, 25 hours of music playback, and 720 hours of standby time.
- **Type-C Fast Charging:** Fully recharges in approximately 2.5 hours.
- **Voice Assistant Trigger:** Access phone voice assistant features.

- **Universal Pairing:** Connects with various Bluetooth devices and third-party intercoms.

2. Setup and Installation

2.1 Package Contents

Before installation, ensure all components are present:

- FreedConn FX Intercom Unit
- Headset with Speakers and Microphones (Soft-tube and Hard-tube options)
- Mounting Brackets (Hook-clip and Glue Base)
- USB Type-C Charging Cable
- User Manual



Image: Components of the FreedConn FX system, showing the main unit, two types of microphones (soft-tube and hard-tube), and two mounting options (glue base and hook clip) suitable for various helmet types.

2.2 Mounting the Intercom Unit

The FX unit can be mounted using either the hook-clip or glue base, depending on your helmet type and preference. Ensure the unit is securely attached to the side of your helmet, allowing easy access to buttons.

2.3 Installing Speakers and Microphones

Place the speakers inside the helmet's ear pockets. Position the microphone (choose between soft-tube for open-face helmets or hard-tube for full-face helmets) near your mouth for optimal voice pickup. Connect the headset cable to the intercom unit's earphone port.



Image: Diagram illustrating the product structure of the FreedConn FX unit, labeling buttons (Volume+/Next Song, Volume-/Last Song, On/Off/Intercom, Running Water Lights ON/OFF, Multi-function), LED indicator, charging port, and earphone port.

2.4 Initial Charging

Before first use, fully charge the device using the provided Type-C cable. A full charge takes approximately 2.5 hours.

3. Operating Instructions

3.1 Power On/Off

- **Power On:** Press the On/Off button for 2 seconds. The blue light will flash quickly three times, then flash slowly.
- **Power Off:** Press the On/Off button for 3 seconds and release when the red light is on.

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Video: Demonstrates basic operations of the FreedConn FX Helmet Intercom, including power on/off and other fundamental functions.

3.2 Language Switching

In standby or music pause state, short press the multi-function button and the On/Off button simultaneously to switch languages.

3.3 Connecting to Mobile Phone (Bluetooth Pairing)

1. In power off state, long press the On/Off button for 5 seconds to enter pairing status (blue and red lights flashing alternately).
2. On your mobile phone, go to Bluetooth settings and select "FX" from the list of available devices to pair.

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Video: Guide on how to connect the FreedConn FX Helmet Intercom to a mobile phone via Bluetooth.

3.4 Phone Call Management

- **Answer Call:** Short press the multi-function button.
- **Hang Up Call:** Short press the multi-function button during a call.
- **Decline Call:** Long press the multi-function button for 2 seconds when an incoming call rings.
- **Voice Calls:** Press the multi-function button for 2 seconds and release to activate your phone's voice assistant (e.g., "Hey Google", "Hey Siri").
- **Automatic Answer:** If enabled, the device will automatically answer incoming calls after 15 seconds if no operation is performed. To enable/disable, short press the On/Off button and the Volume Up button simultaneously.

3.5 Music Playback

- **Play/Pause:** Click the multi-function button.
- **Next Track:** Short press the Volume Up button.
- **Previous Track:** Short press the Volume Down button.
- **Volume Adjustment:** Long press the Volume Up button to increase volume; long press the Volume Down button to decrease volume.

Large-capacity battery



2.5H

Charging Time



30H

Talking Time



720H

Standby Time

1100mAh



Image: Illustration of two riders sharing music using their FreedConn FX intercoms, indicating the music sharing capability.

3.6 FM Radio Operation

- **Turn On/Off Radio:** In standby state, double click the multi-function button.
- **Switch Channel:** Short press the Volume Up button for the next channel; short press the Volume Down button for the previous channel.
- **Switch between Music and Radio:** In music mode, press the multi-function button twice to switch to FM radio, and press twice again to return to music mode.

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Video: Demonstrates the FM radio function operation on the FreedConn FX Helmet Intercom.

3.7 Intercom Functionality

The FX system supports both two-device and multi-device intercom connections.

3.7.1 Pairing Between Two FX Devices

1. In power off state, press the On/Off buttons of both devices simultaneously for 5 seconds until you hear a

prompt and release them. Both devices will enter pairing state.

2. Press the On/Off button on one device slightly until you hear the prompt "Bluetooth connected". The headset has now entered intercom mode.
3. To disconnect/resume intercom, short press the On/Off button.

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Video: Instructions for pairing two FreedConn FX Bluetooth intercom devices for direct communication.

3.7.2 Intercom Connection Among 4 FX Devices

For better pairing effect, clear up pairing records in all devices (A, B, C, and D) before starting.

1. **Step One:** Pair each of the two devices from the first one to the last one in sequence. After pairing A and B, turn off B. After pairing B and C, turn off C. Pair C and D.
2. **Step Two:** Form a group chat. Press device B once to connect B, C and D. Then press A once to connect A, B, C and D.

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Video: Detailed instructions on how to connect and pair up to four FreedConn FX devices for group communication.

3.7.3 Pairing with Third-Party Intercoms

1. Ensure the third-party headset is in pairing mode.
2. On your FreedConn FX unit, hold the On/Off button for about 2 seconds.
3. Then, short press the On/Off button to initiate pairing with the third-party device.

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Video: Demonstrates how to connect the FreedConn FX Helmet Intercom with third-party brand intercom systems.

4. Maintenance and Care

The FreedConn FX is designed with IP67 waterproof and dustproof technology, ensuring durability in various conditions. To maintain optimal performance:

- Regularly wipe the unit with a soft, damp cloth to remove dirt and debris.
- Avoid using harsh chemicals or abrasive cleaners.
- Ensure the charging port cover is securely closed when not charging to maintain water resistance.
- Store the device in a cool, dry place when not in use.



Bladed flowing-water lamp design, looks wonderful.

With an independent flowing-water lamp design, colorful lamplight can be on and off as required, making you stand out while cycling in the daytime, and keeping your cycling at night fascinating and more secure.

Image: The FreedConn FX unit shown with water droplets, illustrating its IP67 waterproof and dustproof capabilities, suitable for use in rain, snow, and dusty environments.

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Video: A short demonstration highlighting the IP67 waterproof feature of the FreedConn FX Helmet Intercom.

5. Troubleshooting

- **No Power:** Ensure the device is fully charged. Connect to a power source and check if the charging indicator lights up.
- **Cannot Pair with Phone/Intercom:**
 - Ensure both devices are in pairing mode (flashing blue and red lights).
 - Clear historical pairing information: In power on state, press the On/Off button for 8 seconds. The red

LED indicator light will remain on and then flash twice quickly.

- Ensure the devices are within range.
- For third-party intercoms, ensure the other device is also in universal pairing mode.

• **Poor Sound Quality / Noise:**

- Check microphone placement; ensure it's close to your mouth and not obstructed.
- Verify speaker placement inside the helmet for optimal audio delivery.
- The device features CVC and DSC noise reduction, but extreme wind noise at very high speeds (e.g., above 120 km/h) may still affect clarity.

• **Intercom Disconnects Frequently:**

- Ensure devices are within the specified intercom range (e.g., 400m for two riders, up to 1500m for groups).
- Obstacles like buildings or dense terrain can reduce range.
- Re-establish the intercom connection as per the operating instructions.

- **Voice Assistant Not Responding:** Ensure your phone's voice assistant is active and the device is properly paired with your phone.

6. Technical Specifications

Model Name	FX
Connectivity Technology	Wireless, Bluetooth
Wireless Communication Technology	Bluetooth 5.1 (Qualcomm Dual-Core)
Noise Control	Active Noise Cancellation (CVC & DSC)
Water Resistance Level	IP67 Waterproof & Dustproof
Battery Capacity	1100mAh Lithium Polymer
Charging Time	Approx. 2.5 Hours (Type-C)
Intercom Talk Time	Up to 30 Hours
Music Playback Time	Up to 25 Hours
Standby Time	Up to 720 Hours
Item Weight	10.6 ounces (0.3 Kilograms)
Product Dimensions	3.3 x 1.6 x 0.8 inches
Material	Metal, Plastic

7. Warranty and Support

This product is typically covered by a standard return policy, allowing for refund or replacement within 30 days of purchase. For specific warranty details, please refer to your purchase documentation or contact the seller directly. For technical assistance or inquiries regarding product features, including how to trigger the voice assistant, please contact FreedConn customer support or the seller, Luvín Tech.

Users can also perform independent program updates using the USB cable, eliminating the need to send the device back to the factory for software enhancements.