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FreedConn FX PLUS

FreedConn FX PLUS Motorcycle Bluetooth Intercom Headset - User Manual

Model: FX PLUS

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Introduction

Thank you for choosing the FreedConn FX PLUS Motorcycle Bluetooth Intercom Headset. This manual provides detailed instructions for the proper installation, operation, and maintenance of your device. Please read this manual thoroughly before use to ensure optimal performance and safety.

Setup and Installation

1. Attaching the Headset to Your Helmet

The FreedConn FX PLUS is designed for universal helmet compatibility. Follow these steps to securely attach the unit and its components.



Image: Visual guide showing the installation of speakers, microphone, and main unit onto a helmet. This image illustrates the proper placement and routing of components for a secure fit.

1. **Prepare the Helmet:** Remove the helmet's inner lining to access the speaker and microphone areas. Most modern helmets have dedicated slots for speakers.
2. **Attach Speaker Velcro Pads:** Apply the provided Velcro pads to the speaker slots inside your helmet. Ensure they are clean and dry for optimal adhesion.
3. **Install Speakers:** Place the speakers onto the Velcro pads. The speaker with the shorter wire typically goes on the left side, and the one with the longer wire on the right. Route the wires neatly under the helmet lining.
4. **Install Microphone:** Attach the microphone Velcro pad to an appropriate spot near your mouth, ensuring it's not obstructed by the helmet padding. Secure the microphone.
5. **Mount the Main Unit Base:** The FX PLUS uses a clip-style base. Securely attach this base to the left side of your helmet, ensuring it's firm and stable.
6. **Attach Main Unit:** Slide the FX PLUS main unit onto the mounted base until it clicks into place.
7. **Connect Wires:** Plug the speaker and microphone wires into the corresponding ports on the main unit. Ensure all connections are secure.

2. Initial Power On/Off

1. **Power On:** With the device off, press and hold the Power ON/OFF button for 2 seconds. A blue light will flash, and a voice prompt will confirm "Device On".
2. **Power Off:** With the device on, press and hold the Power ON/OFF button for 3 seconds. A red light will flash, and a voice prompt will confirm "Power Off".

3. Pairing with Smartphone

1. **Enter Pairing Mode:** With the device on, double-click the Power ON/OFF button. Red and blue lights will flash alternately, and a voice prompt will say "Pairing Mode".
2. **Connect via Bluetooth:** On your smartphone, open the Bluetooth settings and search for "FX Plus". Select it to connect. A voice prompt will confirm "Bluetooth connected".
3. **Automatic Reconnection:** Once paired, the FX PLUS will automatically reconnect to your smartphone when powered on and within range.

Operating Instructions

1. Mesh Intercom Operation (Up to 16 Riders)

The FX PLUS features FreedConn's proprietary Mesh 2.0 technology, allowing up to 16 riders to communicate simultaneously over a range of 1.5km. It supports 5 private channels for group communication.



Image: Diagram illustrating the Mesh dynamic networking capability of the FreedConn FX PLUS, showing multiple units connected in a flexible network for group communication.

1. **Create Mesh Network:** With the device on, press and hold the Mesh button for 2 seconds on all units you wish to include in the network. A voice prompt will confirm "Network created, Channel 1".
2. **Join Mesh Network:** For additional riders to join an existing network, press and hold the Mesh button for 2 seconds. A voice prompt will confirm "Join network, Channel 1".
3. **Channel Switching:** In Mesh intercom mode, double-click the Volume Up or Volume Down button to cycle through the 5 available channels.

2. Phone Call Management

1. **Answer Call:** When a call comes in, click the Multi-function button to answer.
2. **End Call:** During a call, click the Multi-function button to end the call.
3. **Reject Call:** When a call comes in, press and hold the Multi-function button for 2 seconds to reject the call.
4. **Voice Assistant:** Double-click the Multi-function button to activate your smartphone's voice assistant (Siri/Google Assistant).
5. **Automatic Answer Mode:** To toggle automatic call answering (after 15 seconds) on/off, press and hold the Power ON/OFF button and the Multi-function button simultaneously for 2 seconds. A voice prompt will confirm the mode change.

3. Music Playback

The FX PLUS supports Sony Hi-Res audio for superior sound quality.

1. **Play/Pause:** Click the Multi-function button to play or pause music.

2. **Volume Up:** Click the Volume Up button to increase volume. Press and hold for continuous volume increase.
3. **Volume Down:** Click the Volume Down button to decrease volume. Press and hold for continuous volume decrease.
4. **Next Track:** Double-click the Volume Up button to skip to the next track.
5. **Previous Track:** Double-click the Volume Down button to go to the previous track.

4. VAD Sensitivity Adjustment

Voice Activity Detection (VAD) sensitivity can be adjusted in Mesh intercom mode.

1. **Adjust Sensitivity:** In Mesh intercom mode, simultaneously click the Multi-function button and either the Volume Up or Volume Down button. You can cycle through 5 levels of sensitivity (Default: Level 2).

5. Microphone On/Off

To mute or unmute your microphone during Mesh intercom communication:

1. **Toggle Microphone:** In Mesh intercom mode, simultaneously click the Mesh button and the Volume Down button. A voice prompt will confirm "Microphone On" or "Microphone Off".

6. Clear Pairing Information

To clear all paired Bluetooth devices and Mesh network information:

1. **Clear Data:** With the device off, press and hold the Power ON/OFF button and the Volume Up button simultaneously for 2 seconds. A voice prompt will confirm "Factory settings restored".

Key Features

- **Mesh 2.0 Intercom:** Supports up to 16 riders with 1.5km communication range and 5 private channels. Automatic reconnection ensures stable connections even at high speeds.
- **One-Touch Pairing & Auto Reconnect:** Qualcomm Dual Chip Bluetooth 5.1 ensures stable connection and power saving. Seamless intercom communication from commute to touring.
- **Sony Hi-Res Certified Audio:** Industry-first Sony Hi-Res certification with 43mm dynamic drivers and aluminum foil cables for studio-grade sound from deep bass to delicate highs.
- **AI Noise Cancellation:** ENC+CVC+DSP 3-stage noise cancellation eliminates over 95% of wind and engine noise (up to 120km/h).
- **IP67 Waterproof & Glove-Friendly Design:** Fully waterproof and dustproof (IP67 rated) for reliable use in harsh weather. Large dial buttons allow easy operation with gloves.
- **Long Battery Life:** 1100mAh battery provides up to 32 hours of continuous talk time. Type-C fast charging (1.5 hours for full charge).
- **Multi-Device Connectivity:** Compatible with other brands' Bluetooth devices and various helmet types (full-face, modular, off-road, open-face).

Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive cleaners.
- **Water Exposure:** While IP67 rated, avoid prolonged submersion in water. Ensure the charging port cover is securely closed when not charging.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

- **Battery Care:** For optimal battery life, charge the device regularly and avoid completely draining the battery for extended periods.

Troubleshooting

Problem	Possible Cause	Solution
Device won't power on.	Low battery.	Charge the device for at least 1.5 hours.
Cannot pair with smartphone.	Device not in pairing mode; Bluetooth off on phone.	Ensure device is in pairing mode (flashing red/blue). Turn on phone's Bluetooth and search for "FX Plus".
Intercom connection unstable.	Out of range; too many obstacles.	Reduce distance between units; minimize obstacles. Ensure all units are on the same Mesh channel.
Poor audio quality / excessive noise.	Microphone placement; high wind noise.	Adjust microphone position. Ensure helmet padding is correctly installed. AI noise cancellation is active up to 120km/h.

Specifications

- **Model:** FX PLUS
- **Noise Control:** Active Noise Cancellation (AI Noise Cancelling)
- **Connectivity Technology:** Bluetooth, Mesh
- **Wireless Communication Technology:** Bluetooth (Bluetooth 5.1)
- **Charging Time:** 1.5 Hours (Full charge), 0.5 Hours (60% charge)
- **Battery Capacity:** 1100mAh
- **Continuous Talk Time:** Up to 32 hours
- **Water Resistance Level:** IP67 Waterproof
- **Control Type:** Voice Control
- **Product Weight:** 0.67 kg (for 2 units)
- **Speaker Impedance:** 32 Ohm
- **Speaker Driver Size:** 43mm
- **Certifications:** Sony Hi-Res Audio, TELEC certified (Number: 210-180551)

Warranty and Support

The FreedConn FX PLUS comes with a 1-year warranty from the date of purchase. For any inquiries, technical support, or warranty claims, please contact our after-sales service team:
Email: l-jp-amz@fdcdz.com
Please provide your purchase details and a description of the issue when contacting support for faster assistance.

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