

## Cardo FRC2P101

# Instruction Manual

## CARDO FREECOM 2 PLUS MOTORCYCLE 2-WAY BLUETOOTH COMMUNICATION SYSTEM

Model: FRC2P101 | Brand: Cardo

### 1. PRODUCT OVERVIEW

The Cardo FREECOM 2 Plus is a slim, sleek, and aerodynamic waterproof Bluetooth communication system designed for motorcyclists. It enables two-way communication, music streaming, phone calls, and FM radio reception, all while on the road. Its advanced features include self-adjusting volume and universal pairing capabilities.

#### Key Features:

- **Universal Pairing:** Connects with any Bluetooth headset from any substantial brand.
- **Durability:** Fully waterproof and dustproof design.
- **Audio Streaming:** Supports parallel audio streaming for music and intercom.
- **Smart Volume:** Self-adjusting volume based on ambient noise for optimal listening.
- **Mobile App Control:** Full remote control and device settings management via the Cardo Connect App (iOS and Android).
- **FM Radio:** Built-in FM radio with RDS for automatic strongest signal selection.
- **Intercom:** Two-way intercom for rider-to-rider or rider-to-passenger communication.
- **Phone Integration:** Answer and make calls, control mobile device via touch or voice.
- **Charging On-the-Go:** Unit can be charged while riding by plugging into a battery pack or 12V charger.
- **Universal Fitment:** Compatible with all helmet makes and models. (Note: Cardo Half Helmet Kit required for half helmets, sold separately).



Image: The main unit of the Cardo FREECOM 2 Plus communication system.

# RIDEPROOF

WATERPROOF | MUDPROOF | DUSTPROOF | SNOWPROOF



Image: Illustration highlighting the rideproof features of the FREECOM 2 Plus, including waterproof, mudproof, dustproof, and snowproof capabilities.

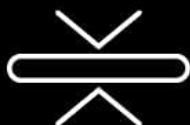
# ADDITIONAL FEATURES



**Rider/Passenger  
Intercom**



**Universal  
Pairing**



**Slim Design**



**Battery Life**



**FM Radio**

Image: Visual representation of additional features: Rider/Passenger Intercom, Universal Pairing, Slim Design, 13-hour Battery Life, and FM Radio.

## 2. WHAT'S INCLUDED

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The Cardo FREECOM 2 Plus package includes all necessary components for installation and immediate use:

- FREECOM 2 PLUS intercom unit(s)
- FREECOM audio kit
- 40mm high-definition speakers
- Corded microphone
- Glue plate
- Hybrid microphone
- Rectangular Velcro pads
- Square Velcro pads

- Speaker relocates (boosters)
- USB Cable
- Instruction manual (this document)



Image: A visual representation of all items included in the FREECOM 2 Plus package.

### 3. SETUP & INSTALLATION

The FREECOM 2 Plus is designed for easy installation on most helmets. You have options for attaching the unit to your helmet using either the glue plate or a clip mechanism (not explicitly mentioned as clip, but implied by "glue plate" and common mounting methods). The speakers and microphones are designed to fit inside the helmet's ear pockets for optimal audio and communication.

#### Installation Steps (General):

1. **Choose Mounting Method:** Decide between the glue plate or clip (if provided) for attaching the main unit to the side of your helmet. Ensure the chosen location does not obstruct helmet functionality or safety.

2. **Install Speakers:** Place the 40mm high-definition speakers inside the helmet's ear pockets. Use the provided speaker relocates (boosters) if needed to bring the speakers closer to your ears for improved sound quality. Ensure they are centered with your ears.
3. **Install Microphone:** Select either the corded microphone (for full-face helmets) or the hybrid microphone (for open-face or modular helmets). Secure the microphone inside the helmet, ensuring it is positioned close to your mouth for clear voice pickup.
4. **Connect Components:** Route the speaker and microphone wires neatly within the helmet lining and connect them to the FREECOM audio kit, then to the main FREECOM 2 Plus unit.
5. **Secure Wiring:** Use the provided Velcro pads to secure any loose wires and ensure a clean, comfortable fit.
6. **Initial Charge:** Before first use, fully charge the unit using the supplied USB cable.

*For detailed, step-by-step instructions, please refer to the specific installation guide included in your product packaging.*



Image: The FREECOM 2 Plus is designed for universal fitment across various helmet types.

## 4. OPERATING INSTRUCTIONS

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The FREECOM 2 Plus offers intuitive controls for various functions. For optimal experience, download the Cardo Connect App.

### **Power On/Off:**

- **To Power On:** Press and hold the Power button until the LED indicator lights up.
- **To Power Off:** Press and hold the Power button until the LED indicator turns off.

### **Bluetooth Pairing:**

The FREECOM 2 Plus can pair with your smartphone, GPS device, and other Bluetooth headsets.

- **Smartphone Pairing:** Activate Bluetooth on your phone, put the FREECOM 2 Plus into pairing mode (refer to quick start guide for specific button presses), and select "Cardo FREECOM 2 Plus" from your phone's Bluetooth list.
- **Universal Intercom Pairing:** Follow the instructions in your manual to pair with non-Cardo Bluetooth headsets.

### **Intercom Communication:**

The dual pack allows for immediate rider-to-rider or rider-to-passenger communication.

- **Initiate Intercom:** Once paired, a simple button press (refer to manual for specific button presses) will open the intercom channel.
- **Merge Phone Call:** Incoming phone calls can be merged into the intercom conversation.



# 2 WAY RIDER TO RIDER BLUETOOTH COMMUNICATION SYSTEM



Image: The FREECOM 2 Plus facilitates seamless two-way rider-to-rider Bluetooth communication.

## Music & FM Radio:

- **Music Streaming:** Stream music from your smartphone. Control playback (play/pause, skip tracks) directly from the unit or via voice commands.
- **Music Sharing:** Share your playlist or favorite radio station with your passenger.
- **FM Radio:** Tune into FM radio stations. The RDS feature automatically selects the strongest signal.

## Voice Control & Cardo Connect App:

- **Voice Control:** Control various functions using voice commands (e.g., answer calls, adjust volume). Refer to the full manual for a list of commands.
- **Cardo Connect App:** Download the app for iOS or Android to manage settings, update firmware, and control your device remotely.



# CARDO CONNECT APP

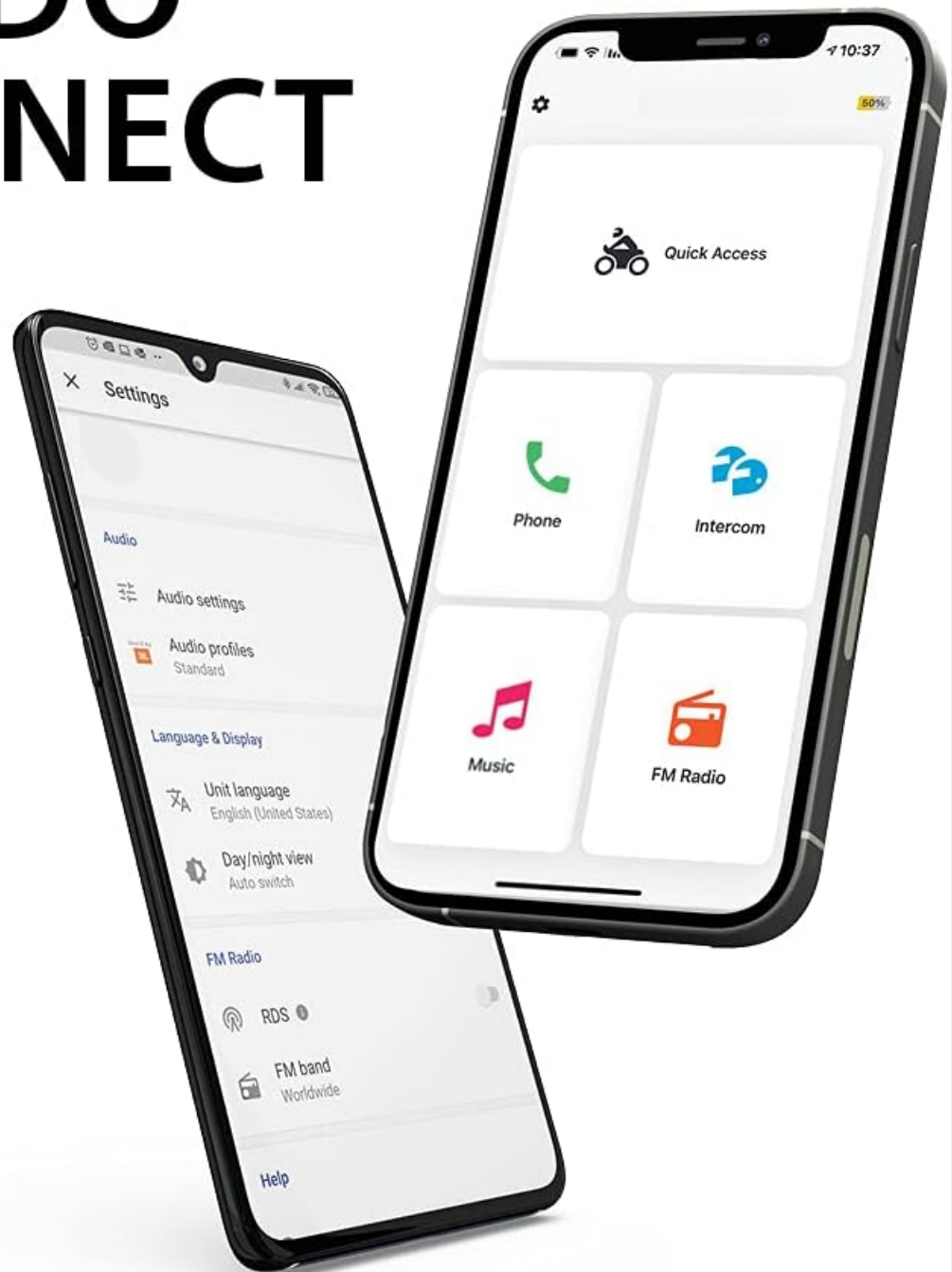


Image: The Cardo Connect App provides comprehensive control and customization options for your device.

Your browser does not support the video tag.

Video: This video helps in understanding which FREECOM model might be suitable for your needs, providing an overview of the product line's capabilities.

## 5. MAINTENANCE & CARE

To ensure the longevity and optimal performance of your FREECOM 2 Plus system, follow these maintenance guidelines:

- **Cleaning:** Wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Waterproof Design:** While waterproof, avoid prolonged submersion. Ensure all ports are properly sealed before exposure to water.
- **Charging:** Charge the unit regularly, especially before long rides. Avoid completely draining the battery frequently to prolong its lifespan.

- **Storage:** Store the unit in a cool, dry place when not in use. If storing for extended periods, charge the battery to about 50% every few months.
- **Firmware Updates:** Regularly check for and install firmware updates via the Cardo Connect App or Cardo website to ensure the best performance and access to new features.

## 6. TROUBLESHOOTING

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If you encounter issues with your FREECOM 2 Plus, try the following steps:

- **No Power:** Ensure the unit is fully charged. Try connecting it to a different USB port or charger.
- **No Audio/Poor Audio:**
  - Check speaker connections to the audio kit.
  - Ensure speakers are correctly positioned over your ears.
  - Adjust volume levels on the unit and your connected device.
  - Check for obstructions in the speaker or microphone areas.
- **Pairing Issues:**
  - Ensure both devices are in pairing mode.
  - Clear previous pairings on both devices and attempt to re-pair.
  - Ensure devices are within range.
- **Intercom Disconnects:**
  - Ensure units are within the specified intercom range.
  - Check for physical obstructions or strong electromagnetic interference.
  - Perform a soft reset on the units (refer to manual for procedure).
- **App Connectivity:**
  - Ensure Bluetooth is enabled on your smartphone.
  - Restart the Cardo Connect App.
  - Restart your FREECOM 2 Plus unit.
- **Firmware Related Issues:** Ensure your device has the latest firmware installed. Update if necessary.

If problems persist, visit the official Cardo support website or contact customer service for further assistance.

## 7. SPECIFICATIONS

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Feature	Detail
Model Number	FRC2P101
Dimensions (Unit)	3.1 x 0.62 x 1.8 inches
Weight (Unit)	1.2 ounces
Battery Type	Lithium Ion (2 included)
Connectivity	Bluetooth

Feature	Detail
Intercom Type	2-Way Rider-to-Rider/Passenger
Waterproof/Dustproof	Yes
FM Radio	Yes, with RDS
App Support	Cardo Connect App (iOS & Android)
Language	English
Origin	Made in USA or Imported

## 8. WARRANTY & SUPPORT

Cardo Systems products are built to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Cardo Systems website.

For technical support, frequently asked questions, and the latest firmware updates, please visit the Cardo Systems support page or use the Cardo Connect App. The app provides a convenient way to access support resources and manage your device.



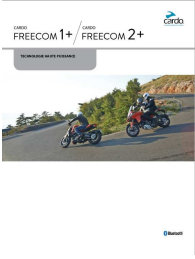

### Online Resources:

- [Cardo Systems Support Website](#)
- [Cardo Connect App Information](#)



### Related Documents - FRC2P101

	<a href="#">Cardo FREECOM 1+/2+ Motorcycle Bluetooth Communication System User Manual</a> A comprehensive guide to the Cardo FREECOM 1+/2+ motorcycle Bluetooth communication and entertainment system, covering setup, features, operation, troubleshooting, and personalization.
	<a href="#">Cardo Freecom X Installation Guide</a> A comprehensive guide to installing the Cardo Freecom X communication system on various helmet types, including detailed steps and multilingual instructions.

	<p><a href="#">Cardo FREECOM 2x Manual: Guía Completa para Motociclistas</a></p> <p>Descubra cómo usar su sistema de comunicación Cardo FREECOM 2x. Este manual detallado cubre instalación, emparejamiento Bluetooth, llamadas, música, intercomunicador y más para una experiencia de conducción segura y conectada.</p>
	<p><a href="#">Cardo FREECOM 4x Manual: Comprehensive Guide to Motorcycle Communication</a></p> <p>This manual provides detailed instructions for the Cardo FREECOM 4x, covering setup, operation, Bluetooth pairing, music streaming, intercom features, and troubleshooting for motorcycle riders.</p>
	<p><a href="#">Cardo FREECOM 1+/2+ Motorcycle Communication System User Manual</a></p> <p>Comprehensive user manual for the Cardo FREECOM 1+/2+ motorcycle communication system, covering setup, features, troubleshooting, and customization.</p>
	<p><a href="#">Cardo FREECOM 2x Manual: Guía de Usuario y Funcionalidades</a></p> <p>Manual completo para el sistema de comunicación y entretenimiento para motocicletas Cardo FREECOM 2x con Bluetooth 5.2. Aprende sobre instalación, emparejamiento, intercomunicador, llamadas, música y más.</p>