

## Cardo FRC4X003

# Cardo Systems Freecom 4X User Manual

Model: FRC4X003

## INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your Cardo Systems Freecom 4X communication system. Please read this manual thoroughly before using the device to ensure optimal performance and safety.

The Cardo Freecom 4X is a state-of-the-art Bluetooth communication system designed for motorcyclists, offering live intercom, high-definition audio by JBL, natural voice operation, and robust waterproof design.

## WHAT'S IN THE BOX

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Your Cardo Freecom 4X package includes the following components:

# WHAT'S IN THE BOX?



FREECOM 4X

\*AVAILABLE ALSO IN DUO



ROUNDED  
VELCRO PADS



RECTANGULAR  
VELCRO PADS



BOOSTER



CORDED  
MICROPHONE



HYBRID  
MICROPHONE



40MM SPEAKERS  
SOUND BY JBL



CRADLE



ALCOHOL PADS



GLUE PLATE



FREECOM 4X UNIT

Image: Contents of the Cardo Freecom 4X package. This includes the Freecom 4X unit, 40mm JBL speakers, rounded and rectangular Velcro pads, booster pads, corded microphone, hybrid microphone, cradle, alcohol pads, and a glue plate. Note that a dual pack version is also available.

- Cardo Freecom 4X Unit
- 40mm High-Definition Speakers by JBL
- Corded Microphone
- Hybrid Microphone
- Mounting Cradle
- Glue Plate
- Rounded and Rectangular Velcro Pads
- Speaker Boosters
- Alcohol Prep Pad
- USB Type-C Cable (for charging and data)

## SETUP AND INSTALLATION

## 1. Mounting the Unit

The Freecom 4X unit can be mounted to most helmet types using either the clamp or adhesive plate. Ensure the mounting location allows for easy access to controls and does not obstruct helmet functionality.

# ADDITIONAL FEATURES



**Universal  
Connectivity**



**Automatic  
Volume**



**Over-The-Air  
Software Update**



**Music  
Streaming**



**Phone  
and GPS**



**Fast  
Charging**

Image: The Cardo Freecom 4X unit attached to the side of a motorcycle helmet, demonstrating its compact and integrated design. The unit is designed to fit all helmet types, with a half helmet kit sold separately.

## 2. Speaker and Microphone Installation

Position the JBL speakers inside the helmet's ear pockets. Use the provided Velcro pads and boosters to ensure a snug fit and optimal sound quality. Select the appropriate microphone (corded for full-face helmets, hybrid for open-face or modular helmets) and position it correctly for clear voice pickup.

# LIVE BLUETOOTH INTERCOM



Image: Close-up view of the Cardo Freecom 4X unit with its integrated control wheel and buttons, ready for installation. This image highlights the main device that attaches to the helmet.

## 3. Initial Charging

Before first use, fully charge the Freecom 4X unit using the supplied USB Type-C cable. A full charge provides up to 13 hours of talk time. A 20-minute fast charge can provide 2 hours of talk time.

## OPERATING INSTRUCTIONS

### Power On/Off and Volume Control

To power on, press and hold the Power button until the LED flashes. To power off, press and hold the Power button until the LED turns red. Adjust volume using the control wheel.

### Live Intercom

The Freecom 4X supports 4-way Bluetooth intercom with auto-reconnect, up to a range of 1.2 km (0.75 miles).

To initiate an intercom conversation, simply speak. The system automatically connects with paired riders.

# OPERATED BY NATURAL VOICE



Image: An illustration showing four Cardo Freecom 4X units wirelessly connected, representing the Live Bluetooth Intercom feature for group communication.

## Natural Voice Operation

Control your Freecom 4X hands-free by simply saying "Hey Cardo" followed by a command. This allows you to manage calls, music, and intercom without pressing buttons.

# WATERPROOF



Image: The Cardo Freecom 4X unit with a visual representation of sound waves, illustrating its "Operated by Natural Voice" feature for hands-free control.

## Phone and GPS Connectivity

Connect your smartphone via Bluetooth to make and receive calls, and stream GPS navigation instructions directly to your helmet speakers. Use voice commands or the control wheel for seamless interaction.

## Music Streaming and FM Radio

Stream music from your smartphone or enjoy the built-in FM radio with RDS for automatic strongest signal selection. Share your music with a passenger or another rider.

## Universal Connectivity

The Freecom 4X is designed to connect with any other Bluetooth headset from any brand, ensuring broad compatibility for group rides.





Image: Two motorcyclists on the road, highlighting the "Cross Brand Bluetooth Connectivity" feature of Cardo units, making it easier and faster to connect with other brands.

### **Automatic Volume Control**

The unit automatically adjusts your sound volume based on the outside ambient noise, ensuring clear audio in varying riding conditions.

### **Over-The-Air Software Updates**

Keep your Freecom 4X updated with the latest features and improvements by using the Cardo Connect App for over-the-air software updates.

## **MAINTENANCE**

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### **Cleaning**

Regularly clean the unit with a soft, damp cloth. Avoid using abrasive cleaners or solvents. The Freecom 4X is waterproof, allowing for easy cleaning without concern for water damage.

# THE ULTIMATE 4-WAY BLUETOOTH COMMUNICATION SYSTEM



Image: The Cardo Freecom 4X unit with water splashing around it, emphasizing its waterproof design, capable of withstanding rain, mud, dust, or snow.

## Battery Care

To prolong battery life, avoid storing the unit in extreme temperatures. Charge the battery regularly, even if not in use for extended periods.

## Software Updates

Periodically check for and install software updates via the Cardo Connect App to ensure optimal performance and access to new features. Updates are delivered over-the-air (OTA).

## TROUBLESHOOTING

### Common Issues and Solutions

- **No Power:** Ensure the unit is fully charged. Check the USB cable and charging port.



- **No Audio:** Verify speakers are properly connected and positioned. Check volume levels on both the unit and connected device.
- **Intercom Disconnection:** Ensure riders are within range (1.2 km / 0.75 mi). The Live Intercom feature includes auto-reconnect.
- **Voice Command Not Responding:** Speak clearly and ensure there is minimal background noise. Check microphone positioning.
- **Bluetooth Pairing Issues:** Refer to the Cardo Connect App for detailed pairing instructions or perform a factory reset if necessary.

### Factory Reset

If you experience persistent issues, a factory reset can resolve many problems. Consult the Cardo Connect App or Cardo Systems website for specific instructions on how to perform a factory reset for your Freecom 4X unit.

### SPECIFICATIONS

Feature	Detail
Model Name	CARDO FRC4X003
Connectivity Technology	Wireless (Bluetooth 5.2)
Intercom Range	Up to 1.2 km / 0.75 mi (for 4 riders)
Audio	Sound by JBL, 40mm HD Speakers
Control Method	App, Voice (Natural Voice Operation), Control Wheel
Water Resistance Level	Waterproof
Battery Life (Talk Time)	Up to 13 hours
Fast Charging	2 hours talk time after 20 minutes charging
Charging Port	USB Type-C
Item Weight	47 Grams (1.66 ounces)
Material	Polycarbonate (PC)
FM Radio	Built-in with RDS
Software Updates	Over-The-Air (OTA) via Cardo Connect App

### WARRANTY AND SUPPORT

## Warranty Information

Cardo Systems provides a 2-year spare part availability duration for products sold in the EU. For specific warranty terms and conditions applicable to your region, please refer to the official Cardo Systems website or your local distributor.

## Customer Support





For further assistance, technical support, or to download the latest version of the Cardo Connect App, please visit the official Cardo Systems website or contact their customer service.



Visit Cardo Systems Website

Download Cardo Connect App

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### Related Documents - FRC4X003

	<p><a href="#">Cardo Systems Safety, Compliance, and Warranty Information</a></p> <p>Detailed safety, compliance, and warranty information for Cardo Systems products, including FCC, CE, and Industry Canada statements, warnings, health advisories, and warranty terms.</p>
	<p><a href="#">Cardo Freecom X Installation Guide</a></p> <p>A comprehensive guide to installing the Cardo Freecom X communication system on various helmet types, including detailed steps and multilingual instructions.</p>
	<p><a href="#">Cardo PACKTALK BLACK User Manual - Motorcycle Communication System</a></p> <p>Comprehensive user manual for the Cardo PACKTALK BLACK motorcycle communication and entertainment system. Learn about setup, features, DMC and Bluetooth intercom, audio streaming, voice commands, and troubleshooting.</p>
	<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 Systems Product Safety, Compliance, and Warranty Information</a></p> <p>Essential safety, compliance, and warranty details for Cardo Systems communication devices, including PACKTALK, FREECOM, and SPIRIT models. Learn about proper usage, RF exposure, battery safety, and warranty terms.</p>
	<p><a href="#">Cardo Freecom 4X Pocket Guide</a></p> <p>A concise pocket guide for the Cardo Freecom 4X headset, covering setup, operation, and features in English, German, French, and Italian.</p>

## Documents - Cardo – FRC4X003



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Nowa linia produktów od Cardo karty DAEtWxqo6l8 BACEl823PuQ natalia teleszewska \* Interkom do kasków motocyklowych CARDO Scala Rider FREECOM 4X Duo 1200m 4 motocyklistów Sklep motocyklowy AGAmotocykle.pl cardo freecom4x karta produktu agamotocykle images |||

Najlepszy system komunikacji Bluetooth do rozmw jednoczenie dla 4 osb. Potne, wysokiej jakości 40mm ... dowania 2 godzin rozmw Czuwanie 10 dni Certyfikaty CE FCC / IC SIG BT TELECOM UKCA Kody Kod produktu: **FRC4X003** EAN: 828831843043 Kod produktu: FRC4X103 EAN: 828831843050 Motocykliści Zasięg km Radi... lang:pl score:27 filesize: 749.78 K page\_count: 2 document date: 2021-11-18



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5.2 FREECOM 4x 4-Way Bluetooth Intercom Powerful 40mm high-definition speakers engineered to perfe ... 40mm JBL speakers JBL Audio profiles Automatic Volume Control Code FREECOM 4x Single Part number: **FRC4X003** EAN: 828831843043 FREECOM 4x Duo Part number: FRC4X103 EAN: 828831843050 Riders Range ... lang:en score:20 filesize: 5.2 M page\_count: 2 document date: 2021-10-20