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› Cardo Systems FREECOM 2X Motorcycle 2-Way Helmet Bluetooth Communication System Headset Intercom, Universal Bluetooth Connectivity, Waterproof, 40mm Speakers - Single Pack Freecom 2X 1 Pack

Cardo FRC2X003

Cardo Systems FREECOM 2X User Manual

Motorcycle 2-Way Helmet Bluetooth Communication System

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Cardo Systems FREECOM 2X motorcycle communication system. Please read this manual thoroughly before using the device to ensure optimal performance and safety.



Image: The Cardo Freecom 2X communication system shown with its retail packaging, highlighting its key features.

SAFETY INFORMATION

Always prioritize safety when operating your motorcycle. Ensure the device is securely installed and does not obstruct your vision or control. Avoid making adjustments or interacting with the device in a way that distracts you from riding. Keep the volume at a level that allows you to hear ambient traffic sounds.

- Do not operate the device while riding if it compromises your safety.
- Ensure all components are securely fastened to the helmet.
- Keep the device away from extreme temperatures and direct sunlight.
- Do not attempt to disassemble or modify the device.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Cardo FREECOM 2X Communication Unit
- 40mm Speakers (JBL Audio)
- Boom Microphone
- Wired Microphone
- Mounting Clamp
- Adhesive Plate
- USB Charging Cable
- Velcro Pads for Speakers and Microphones
- Alcohol Prep Pads



Image: An illustration showing the various components included with the Cardo Freecom 2X system, such as the main unit, speakers, and microphones.

SETUP AND INSTALLATION

Proper installation is crucial for optimal audio quality and secure fit. The FREECOM 2X is designed to fit most helmet types.

1. Charging the Device

Before first use, fully charge the FREECOM 2X unit. Connect the supplied USB cable to the charging port on the device and to a USB power source. The LED indicator will show charging status.



Image: A close-up view of the Cardo Freecom 2X unit, highlighting the USB charging port located on the side.

2. Mounting the Unit to Your Helmet

Choose between the clamp mount or the adhesive plate mount based on your helmet type and preference.

Clamp Mount:

1. Loosen the screws on the clamp mount.
2. Slide the clamp between the helmet shell and the inner padding on the left side of the helmet.
3. Tighten the screws to secure the clamp.
4. Slide the FREECOM 2X unit onto the clamp until it clicks into place.

Adhesive Plate Mount:

1. Clean the desired mounting area on the left side of your helmet with an alcohol prep pad and let it dry completely.
2. Peel off the protective backing from the adhesive plate.
3. Firmly press the adhesive plate onto the helmet surface for 30 seconds.
4. Allow 24 hours for the adhesive to fully cure before attaching the unit.
5. Slide the FREECOM 2X unit onto the adhesive plate until it clicks into place.



Image: The Cardo Freecom 2X unit securely attached to the side of a motorcycle helmet, demonstrating its compact profile.

3. Speaker and Microphone Installation

Position the speakers and microphone correctly for clear audio.

1. **Speakers:** Attach the Velcro pads to the back of the speakers. Place the speakers inside the helmet's ear pockets, ensuring they are centered over your ears for optimal sound.
2. **Microphone:**
 - For open-face or modular helmets, use the **boom microphone**. Attach it to the helmet's chin bar using Velcro, positioning the microphone close to your mouth.
 - For full-face helmets, use the **wired microphone**. Attach it to the inside of the helmet near your mouth using Velcro.
3. Route all cables neatly under the helmet padding to prevent interference and ensure comfort. Connect the speaker and microphone cables to the corresponding ports on the FREECOM 2X unit.

LIVE BLUETOOTH INTERCOM



Image: The 40mm JBL speakers and boom microphone included with the Cardo Freecom 2X, ready for installation inside a helmet.

OPERATING INSTRUCTIONS

Familiarize yourself with the controls and functions of your FREECOM 2X unit.

Basic Controls

Control	Function
Control Wheel	Rotate up/down for volume control. Press for various functions (e.g., play/pause music, answer call).
Front Button	Activates voice commands, initiates intercom.
Rear Button	Toggles FM radio, navigates menus.

Pairing with Bluetooth Devices

The FREECOM 2X can connect to your mobile phone, GPS device, and other Cardo units.

1. Mobile Phone Pairing:

- Turn on the FREECOM 2X.
- Press and hold the Control Wheel for 5 seconds until the LED flashes blue rapidly.
- On your phone, enable Bluetooth and search for "Cardo FREECOM 2X". Select it to pair.
- A voice prompt will confirm successful pairing.

2. Intercom Pairing (Rider-to-Rider):

- Ensure both FREECOM 2X units are on.
- On one unit, press and hold the Front Button for 5 seconds until the LED flashes red.
- On the second unit, press the Front Button once.
- The units will automatically connect. A voice prompt will confirm the connection.

ADDITIONAL FEATURES



FM Radio



**Universal
Connectivity**



**Over-The-Air
Software Update**



**Automatic
Volume**



**Music
Streaming**



**Phone
and GPS**



**Fast
Charging**

Image: Two Cardo Freecom 2X units shown with a blue arc connecting them, symbolizing their Bluetooth intercom capability for rider-to-rider communication.

Using the Cardo Connect App

The Cardo Connect App provides advanced control and customization options for your FREECOM 2X.

- Download the app from the [Apple App Store](#) or [Google Play Store](#).
- Connect your FREECOM 2X to the app via Bluetooth.
- Use the app to:
 - Adjust audio settings and equalizer.
 - Manage intercom groups.
 - Access FM radio presets.
 - Perform Over-The-Air (OTA) software updates.



Image: A smartphone screen displaying the Cardo Connect App interface, showing options for device updates and settings management.

MAINTENANCE

Regular maintenance ensures the longevity and performance of your FREECOM 2X.

- **Cleaning:** Wipe the unit with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Waterproof:** The FREECOM 2X is waterproof. However, avoid submerging it in water for extended periods. Ensure all ports are sealed when exposed to moisture.
- **Storage:** Store the device in a cool, dry place when not in use. If storing for an extended period, charge the battery to about 50% to preserve battery health.



Image: The Cardo Freecom 2X unit being splashed with water, demonstrating its waterproof design.

TROUBLESHOOTING

Common issues and their solutions:

Problem	Possible Solution
Device not turning on	Ensure the battery is charged. Connect to a power source and check the charging indicator.
No audio from speakers	Check speaker connections. Ensure volume is not muted or too low. Verify speakers are correctly positioned over ears.
Cannot pair with phone/intercom	Ensure the device is in pairing mode. Restart both devices. Clear previous pairings and try again.

Problem	Possible Solution
Intercom connection drops frequently	Ensure units are within range (up to 800m / 0.5 mi). Check for obstructions. Update firmware via Cardo Connect App.
Poor microphone quality	Ensure microphone is positioned correctly (close to mouth). Check for obstructions or damage.

If issues persist, refer to the full user manual available on the Cardo Systems website or contact customer support.

SPECIFICATIONS

Feature	Detail
Model Name	FREECOM 2X
Connectivity Technology	Wireless (Bluetooth 5.2)
Intercom Range	Up to 800m / 0.5 mi (rider-to-rider)
Speakers	40mm JBL Audio
Water Resistance	Waterproof
Battery Life	Up to 13 hours talk time
Charging Time	Fast Charging
FM Radio	Built-in with RDS
Software Updates	Over-The-Air (OTA) via Cardo Connect App
Dimensions	3.07 x 0.79 x 1.89 inches
Weight	1.31 ounces (37 grams)

WARRANTY INFORMATION

Cardo Systems products are covered by a warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the official Cardo Systems website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For further assistance, technical support, or to download the latest user guides and software updates, please visit the official Cardo Systems website:

www.cardosystems.com

You can also find helpful resources and community forums on their social media channels:

[Facebook](#) [Instagram](#) [Twitter](#) [YouTube](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question