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FreedConn R3PRO

FreedConn R3Pro Motorcycle Intercom with 2K Camera

User Manual

INTRODUCTION

Thank you for choosing the FreedConn R3Pro Motorcycle Intercom with 2K Camera. This device is designed to enhance your riding experience by providing seamless communication, high-definition video recording, and entertainment features. This manual provides detailed instructions on how to set up, operate, and maintain your R3Pro unit. Please read it carefully before use to ensure optimal performance and safety.



A sleek, black FreedConn R3Pro motorcycle intercom unit, featuring a camera lens on one end and a control dial with blue LED illumination on the side. It is designed to attach to a motorcycle helmet.

PRODUCT OVERVIEW

Key Features

- **Bluetooth 5.1 Connectivity:** High-speed chip for stable connections, supporting HFP/HSP/A2DP protocols.
- **Group Intercom:** Supports up to 6 riders simultaneously with a communication range of 1.2km.
- **2K Camera & Loop Recording:** Captures clear 1440p video, with adjustable lens and 360-degree unit rotation. Supports up to 512GB memory cards.
- **Advanced Noise Cancellation:** CVC and DSP/C technologies reduce wind and engine noise for clear audio up to 120km/h.
- **Long-Lasting Battery:** 2000mAh battery provides up to 45 hours of talk time and 7 hours of continuous recording.
- **Dedicated Mobile App:** "RoadCam" app for real-time video viewing and downloading via Wi-Fi.
- **FM Radio:** Built-in FM radio function for entertainment and information.
- **Voice Assistant Support:** One-touch activation for hands-free control.
- **IP65 Waterproof & Dustproof:** Designed to withstand various weather conditions.
- **Universal Pairing:** Compatible with other intercom brands (FODSPORTS, SENA) and various Bluetooth devices.

Package Contents



This image displays the contents of the FreedConn R3Pro package, including the Bluetooth kit, 2-in-1 soft & hard microphones, hook clip, velcro clip, headphone velcro, USB cable, and manual. Below, a seven-step visual guide illustrates how to install the intercom unit onto a motorcycle helmet.

The FreedConn R3Pro package typically includes:

- FreedConn R3Pro Intercom Unit
- 2-in-1 Soft & Hard Microphones
- Helmet Mounting Kit (Hook Clip, Velcro Clip)
- Headphone Velcro Pads
- USB Charging Cable
- User Manual

Component Diagram

IP65防水防塵

突然の雨や悪天候下でも安定して通話・録画が可能です。



A detailed diagram of the FreedConn R3Pro unit, highlighting its various buttons and ports. Labels indicate the camera, WiFi button, recorder power ON/OFF, record/pause button, multi-function button, Bluetooth ON/OFF/intercom button, LED indicator, volume/next track, volume/previous track, microphone, earphone jack, reset button, TF card slot, and charging/USB port.

Familiarize yourself with the buttons and ports on your R3Pro unit:

- **Camera:** Integrated 2K camera lens.
- **WiFi Button:** Activates Wi-Fi for app connection.
- **Recorder Power ON/OFF / Record/Pause Button:** Controls camera recording.
- **Multi-function Button:** Used for various controls including pairing and voice assistant.
- **Bluetooth ON/OFF / Intercom Button:** Manages Bluetooth and intercom functions.
- **LED Indicator:** Displays device status.
- **Volume / Next Track:** Adjusts volume and skips tracks.
- **Volume / Previous Track:** Adjusts volume and goes to previous tracks.
- **Microphone Port:** Connects the external microphone.
- **Earphone Jack:** Connects the helmet speakers.
- **Reset Button:** For device reset.
- **TF Card Slot:** For inserting a microSD card for recording.
- **Charging / USB Port:** For charging and data transfer.

SETUP

1. Helmet Installation

Follow these steps to securely install the R3Pro unit on your motorcycle helmet:

1. Attach the hook clip or velcro clip to the side of your helmet.
2. Mount the R3Pro unit onto the attached clip.
3. Insert the microphone into the helmet's interior, positioning it near your mouth.
4. Attach the speakers inside the helmet using the provided velcro pads, ensuring they are aligned with your ears.
5. Connect the microphone and speaker cables to the corresponding ports on the R3Pro unit.

2. Initial Pairing (Bluetooth)

An illustration showing the internal Bluetooth 5.1 chip of the FreedConn R3Pro, emphasizing high-speed communication, energy saving, low latency, and ultra-stability. An inset image demonstrates the multi-function button used for automatic pairing after the initial setup.

The R3Pro features automatic pairing after the first successful connection:

1. Ensure your R3Pro unit is charged.
2. Turn on the R3Pro unit.
3. Activate Bluetooth on your smartphone or other device.
4. Search for "FreedConn R3Pro" in your device's Bluetooth settings and select it to pair.
5. Once paired, the unit will automatically connect to your device when powered on.

3. App Connection (RoadCam)



This image illustrates the loop recording capability of the R3Pro and its integration with the "RoadCam" smartphone application. A motorcycle rider is shown, with the app interface on a phone displaying real-time video footage, indicating that recorded videos can be viewed and downloaded via Wi-Fi.

To connect to the dedicated "RoadCam" app:

1. Download the "RoadCam" app from your smartphone's app store.
2. Turn on the R3Pro unit and activate its Wi-Fi function (refer to the component diagram for the Wi-Fi button).
3. Connect your smartphone to the R3Pro's Wi-Fi network (SSID and password usually found in the manual or on the device).
4. Open the "RoadCam" app to view real-time video, manage recordings, and download files.

OPERATING INSTRUCTIONS

Power On/Off

- **Power On:** Press and hold the Power button (refer to component diagram) until the LED indicator lights up.
- **Power Off:** Press and hold the Power button until the LED indicator turns off.

Intercom Communication

【通信自動復帰機能】

- 仲間6人と途切れない通話を!
- 最大1.2kmの通信距離で、離れても自動再接続。
- ライドの楽しさを、ストレスフリーで。



An image depicting multiple motorcycle riders on a road, connected wirelessly by the FreedConn R3Pro intercoms. It highlights the automatic communication reconnection feature, allowing riders to rejoin the conversation seamlessly even if they temporarily separate up to 1.2km.

- **Initiate Intercom:** Press the Intercom button to start a conversation with paired units.
- **Group Intercom:** The R3Pro supports up to 6 riders for simultaneous communication. Follow the specific pairing instructions in the full manual for multi-unit connections.
- **Automatic Reconnection:** If riders separate and exceed the 1.2km range, the units will automatically reconnect once they are back within range.

Camera Operation



This image demonstrates the adjustable camera features of the FreedConn R3Pro. It shows the camera lens can be adjusted by 30 degrees and the main unit can rotate 360 degrees, allowing riders to capture various angles.

- **Start/Stop Recording:** Press the Record/Pause button (refer to component diagram) to start or stop video recording.
- **Loop Recording:** The camera supports loop recording, automatically overwriting the oldest files when the memory card is full.
- **Camera Adjustment:** The camera lens can be adjusted by 30 degrees, and the entire unit can rotate 360 degrees for optimal viewing angles.
- **Memory Card:** Insert a microSD card (up to 512GB) into the TF card slot before recording.

Music Playback & Sharing

This image illustrates the R3Pro's universal pairing with various Bluetooth devices like smartphones, action cameras, and other Bluetooth earphones. It also shows two riders sharing music, emphasizing the ability to enjoy favorite tunes with a partner.

- **Play/Pause:** Use the multi-function button for music control.
- **Next/Previous Track:** Use the Volume/Next Track and Volume/Previous Track buttons.
- **Music Sharing:** Share audio with a paired intercom unit up to 50 meters away.

FM Radio

Freedconn バイク用インカム カメラ付き
ワイヤレス インターコム ヘッドセット
R1 Pro

WiFi搭載
1KM&6人グループ通話
ループ録画
2台スマホ接続可
他のGPSと接続可
5.1 Bluetooth
120°超広角
IP65 防水
2K WDRとHDR付き

スマホで映像を即確認可!

The advertisement features a large image of the R1 Pro intercom unit against a mountain landscape. Below the main title, there are several feature callouts: 'WiFi搭載' (WiFi equipped) with a smartphone icon; '1KM&6人グループ通話' (1KM & 6-person group call) with a group of people icon and '1000m' range; 'ループ録画' (Loop recording) with a circular video frame icon; '2台スマホ接続可 他のGPSと接続可' (Connectable to 2 smartphones and other GPS); '5.1 Bluetooth' with a speaker icon; '120°超広角' (120° super wide angle) with a camera lens icon; 'IP65 防水' (IP65 waterproof) with a water splash icon; and '2K WDRとHDR付き' (2K WDR and HDR included) with a video camera icon.

A motorcycle rider is shown with the R3Pro, indicating the built-in FM radio feature. The image displays a frequency range from 76-108MHz, suggesting support for Japanese frequencies, and mentions support for sports broadcasts and news.

- **Activate FM Radio:** Press the designated FM radio button (refer to the full manual for specific button assignment).
- **Scan Channels:** The unit will automatically scan and save available FM stations.
- **Change Channels:** Use the Volume/Next Track and Volume/Previous Track buttons to switch between stations.

Phone Calls

FreedConn®

バイク用Bluetoothインターコム

16人グループインターホン
インターコム 範囲1.5km
壁を越えたコミュニケーション
さまざまなシナリオに適用可能
Hi-Res AUDIO
ソニーのハイレゾ音質
AIノイズ低減
話をしながら音楽を聴く
急速充電をサポート

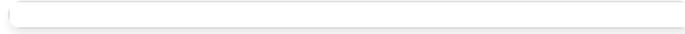
The advertisement shows a motorcycle rider wearing a helmet with the intercom system. Below the title, there are eight feature callouts with icons: '16人グループインターホン' (16-person group intercom) with a mesh icon; 'インターコム 範囲1.5km' (Intercom range 1.5km) with a distance icon; '壁を越えたコミュニケーション' (Communication through walls) with a wall icon; 'さまざまなシナリオに適用可能' (Applicable to various scenarios) with a diamond icon; 'Hi-Res AUDIO ソニーのハイレゾ音質' (Hi-Res Audio Sony's high-resolution audio quality) with a speaker icon; 'AIノイズ低減' (AI noise reduction) with a waveform icon; '話をしながら音楽を聴く' (Listen to music while talking) with a music note icon; and '急速充電をサポート' (Supports fast charging) with a lightning bolt icon.

An image showing a motorcycle rider receiving a call, with a graphic indicating automatic answering after 15 seconds of no operation. It

also states that hands-free calls are possible while riding, and music playback resumes after the call ends.

- **Answer Call:** The R3Pro supports automatic answering after 15 seconds of no operation. You can also tap the multi-function button to answer.
- **End Call:** Tap the multi-function button to end a call.
- **Reject Call:** Press and hold the multi-function button to reject an incoming call.
- **Dual Phone Connection:** The unit can connect to two smartphones simultaneously, allowing real-time switching between call, music, and navigation functions.

Voice Assistant



An illustration showing how to activate the voice assistant by long-pressing the multi-function button for 2 seconds. Examples of voice commands are displayed, such as "Search for gas station," "Call Mr. Matsumoto," "What day is today?", and "How's the weather tomorrow?".

To activate your smartphone's voice assistant (e.g., Siri, Google Assistant):

- **Activate:** Press and hold the multi-function button for 2 seconds.
- Once activated, you can issue commands for navigation, calls, weather checks, and more.

Noise Cancellation

A diagram illustrating the effect of noise cancellation, showing sound waves before and after processing, with a significant reduction in noise. It also displays the internal components of the speaker, highlighting Hi-Res audio quality and an omnidirectional microphone for clear conversations up to 120km/h.

The R3Pro features advanced CVC and DSP/C noise cancellation technology, which automatically reduces ambient noise such as wind and engine sounds. This ensures clear voice communication and high-quality music playback even at speeds up to 120km/h.

MAINTENANCE

Charging the Battery

Hero オートバイ ヘルメットインターコムヘッドセット



An image showcasing the 2000mAh battery of the R3Pro, indicating approximately 2.5 hours for a full charge. It highlights extended usage times: 42 hours for music, 33 hours for talk, and 7-8 hours for recording, with support for up to 512GB memory cards for loop recording.

- Connect the R3Pro to a power source using the provided USB charging cable via the Charging/USB Port.
- A full charge typically takes approximately 2.5 hours.
- The LED indicator will show charging status (e.g., red for charging, blue for fully charged).

Cleaning and Care



An image showing the FreedConn R3Pro unit being splashed with water, illustrating its IP65 waterproof and dustproof rating. This indicates stable communication and recording are possible even in sudden rain or bad weather conditions.

- Wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all ports are dry before charging or connecting accessories.
- The IP65 rating protects against water jets and dust, but avoid submerging the unit in water.

TROUBLESHOOTING

Common Issues and Solutions

Issue	Possible Cause	Solution
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Issue	Possible Cause	Solution
Unit does not power on	Low battery; Faulty power button	Charge the unit fully; Contact support if issue persists.
Cannot pair with smartphone	Bluetooth not enabled; Unit not in pairing mode; Interference	Ensure Bluetooth is on; Put R3Pro in pairing mode; Move away from other devices; Reset unit.
Intercom not connecting	Units out of range; Incorrect pairing sequence; Low battery	Ensure units are within 1.2km; Re-pair units; Charge batteries.
Poor audio quality/noise	Microphone/speaker placement; High wind noise; Interference	Adjust microphone/speaker; Ensure CVC/DSP is active; Check for obstructions.
Camera not recording	No microSD card; Full microSD card; Card error	Insert/replace microSD card; Format card; Check card compatibility.
App connection issues	Wi-Fi not enabled on R3Pro; Incorrect Wi-Fi password; App not updated	Enable R3Pro Wi-Fi; Re-enter password; Update RoadCam app.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please refer to the comprehensive troubleshooting section in the full user manual or contact customer support.

SPECIFICATIONS

Feature	Detail
Brand	FreedConn
Model Name	R3PRO
Connectivity Technology	Bluetooth 5.1, Wi-Fi
Intercom Range	Up to 1.2 km (multi-person)
Group Intercom	Up to 6 riders simultaneously
Video Capture Resolution	1440p (2K)
Camera Features	30-degree lens adjustment, 360-degree unit rotation, Loop Recording
Memory Card Support	Up to 512GB microSD
Noise Cancellation	CVC, DSP/C
Battery Capacity	2000mAh Lithium Ion
Continuous Talk Time	Up to 45 hours
Continuous Recording Time	Approximately 7 hours
Charging Time	Approximately 2.5 hours

Feature	Detail
Waterproof Rating	IP65
Dimensions	14.8 x 11.5 x 6.4 cm
Weight	450 g

WARRANTY AND SUPPORT

The FreedConn R3Pro comes with a **1-year warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact FreedConn customer service through the retailer where you purchased the product or visit the official FreedConn website for contact information.