

## EJEAS FBIM

# EJEAS FBIM Professional Referee Bluetooth Intercom User Manual

Model: FBIM

## 1. PRODUCT OVERVIEW

The EJEAS FBIM is a professional full-duplex Bluetooth intercom system designed for real-time communication among referees in sports such as football and handball. It features advanced Bluetooth 5.1 technology, CVC noise reduction, and a long-lasting battery for reliable performance during extended use.



Image 1.1: Four EJEAS FBIM referee intercom units, showcasing the compact design.

## Key Features:

- **Bluetooth 5.1 Technology:** Ensures quick pairing and stable, low-energy consumption communication.
- **Full-Duplex Intercom:** Supports real-time, simultaneous communication for up to 4 users.
- **Extended Range:** Communication distance up to 1500 meters (between 4 units).
- **CVC Noise Reduction:** Advanced technology to minimize echo and ambient noise for clear audio.
- **Long Battery Life:** 850mAh battery provides up to 19 hours of talk time and 260 hours of standby time.
- **IP65 Waterproof Rating:** Designed to withstand splashes and light rain, suitable for outdoor use.
- **Portable Design:** Small, lightweight, and includes an armband for secure wearing.

## 2. PACKAGE CONTENTS

---

Before proceeding with setup, please verify that all items are present in your package:

- 4 x FBIM Referee Intercom Units
- 4 x Single-Ear Headphones
- 4 x Charging Cables
- 4 x Running Armbands
- 1 x User Manual (this document)



Image 2.1: Overview of the EJEAS FBIM 4-unit package contents.

### 3. DEVICE LAYOUT AND CONTROLS

Familiarize yourself with the buttons and interfaces of the FBIM intercom unit:



Image 3.1: Labeled diagram of the EJEAS FBIM intercom unit.

- **Antenna:** For wireless signal transmission.

- **Power On/Off Button:** Press and hold to power the unit on or off.
- **Indicator Light:** Displays device status (e.g., charging, paired, low battery).
- **Volume + Button:** Increases audio volume.
- **Volume - Button:** Decreases audio volume.
- **A Button:** Used for pairing and group communication functions.
- **B Button:** Used for pairing and group communication functions.
- **Earphone/Charger Interface:** 3.5mm jack for connecting the single-ear headphone and for charging the device.

## 4. SETUP AND INSTALLATION

### 4.1 Charging the Device

1. Connect the charging cable to the Earphone/Charger Interface on the FBIM unit.
2. Connect the other end of the charging cable to a USB power adapter (not included) or a computer's USB port.
3. The indicator light will show charging status. A full charge typically takes approximately 2.5 hours.
4. Ensure all units are fully charged before initial use for optimal performance.

### 4.2 Wearing the Headset and Intercom

The FBIM intercom is designed for comfortable and secure wearing during activity. The single-ear headphone ensures clear audio and microphone pickup.

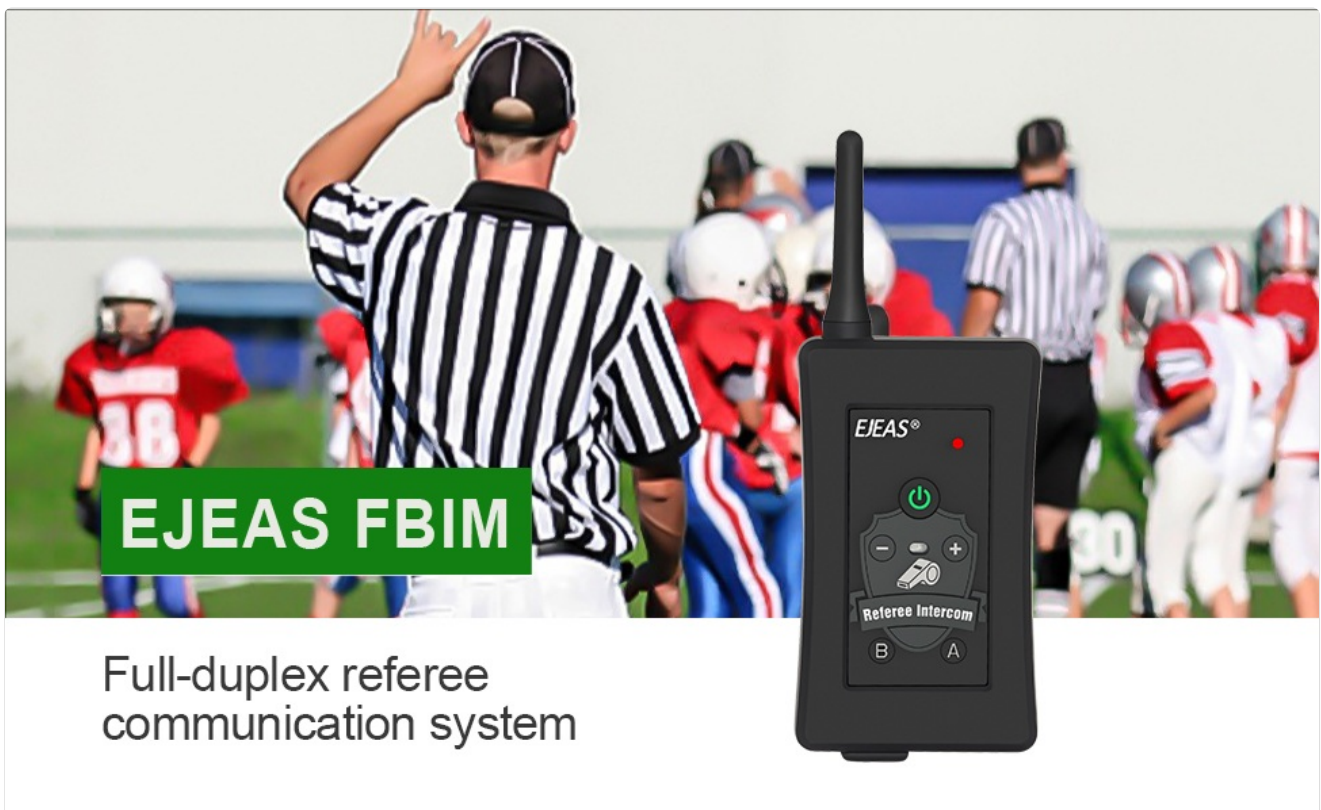


Image 4.1: Step-by-step guide for connecting the headset and wearing the intercom unit.

1. Connect the single-ear headphone to the Earphone/Charger Interface of the FBIM unit.
2. Insert the earbud securely into your ear.
3. Adjust the microphone boom for optimal voice pickup, positioning it close to your mouth.

4. Place the FBIM unit into the provided running armband.
5. Secure the armband to your arm, ensuring it is snug but comfortable, allowing for freedom of movement.

## 5. OPERATING INSTRUCTIONS

---

### 5.1 Power On/Off

- **To Power On:** Press and hold the Power On/Off button until the indicator light illuminates.
- **To Power Off:** Press and hold the Power On/Off button until the indicator light turns off.

### 5.2 Pairing Intercom Units (Group Communication)

The FBIM system supports group communication for up to 4 users. Follow these steps to pair multiple units:

1. Ensure all FBIM units are powered off.
2. Take two units (Unit 1 and Unit 2). Press and hold the Power On/Off button on both units simultaneously until their indicator lights flash rapidly, indicating pairing mode.
3. On Unit 1, press the 'A' button. On Unit 2, press the 'B' button. The units should connect, and their indicator lights will change to a steady blue or green, indicating a successful pair.
4. To add a third unit (Unit 3), ensure Unit 3 is off. With Unit 1 and Unit 2 already paired and on, press and hold the Power On/Off button on Unit 3 until its indicator light flashes rapidly.
5. On Unit 1, press the 'A' button. On Unit 3, press the 'B' button. Unit 3 will pair with Unit 1.
6. To add a fourth unit (Unit 4), ensure Unit 4 is off. With Unit 1, Unit 2, and Unit 3 already paired and on, press and hold the Power On/Off button on Unit 4 until its indicator light flashes rapidly.
7. On Unit 2, press the 'A' button. On Unit 4, press the 'B' button. Unit 4 will pair with Unit 2.
8. Once all units are paired, they will form a communication group. Any participant can speak, and all others in the group will hear.

*Note: For detailed pairing instructions and specific button sequences for different group sizes, please refer to the included printed user manual.*

### 5.3 Volume Adjustment

- Press the **Volume +** button to increase the listening volume.
- Press the **Volume -** button to decrease the listening volume.

### 5.4 Noise Reduction (CVC)

The FBIM intercom utilizes CVC (Clear Voice Capture) noise reduction technology to filter out ambient noise and echo, providing clearer communication in noisy environments. This feature operates automatically.

## 6. MAINTENANCE AND CARE

---

- **Cleaning:** Wipe the intercom units with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** The FBIM units are IP65 waterproof, meaning they are protected against dust and low-pressure water jets. They are not designed for submersion. Ensure the earphone/charger port cover is securely closed when not in use to maintain water resistance.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures.



- **Battery Care:** For optimal battery longevity, avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to approximately 50% every few months.

## professional **IP65** waterproof



Image 6.1: The EJEAS FBIM intercom unit demonstrating its IP65 waterproof capability.

## 7. TROUBLESHOOTING

If you encounter issues with your EJEAS FBIM intercom system, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Units do not power on.	Low or depleted battery.	Charge the units fully (approx. 2.5 hours).
Cannot pair units.	Incorrect pairing procedure; units too far apart; interference.	Ensure units are in pairing mode (rapid flashing light). Follow the pairing steps precisely. Try pairing in a location with less interference. Ensure units are within close proximity during initial pairing.

Problem	Possible Cause	Solution
Intercom connection is unstable or drops frequently.	Units are out of range; environmental interference; low battery.	Ensure units are within the 1500m operating range. Avoid physical obstructions. Fully charge units. Re-pair the units if necessary.
Poor audio quality or excessive noise.	Microphone not positioned correctly; CVC not functioning optimally; environmental factors.	Adjust the microphone closer to your mouth. Ensure the earphone is securely fitted. Move to a less noisy environment if possible.
No sound from headset.	Headset not properly connected; volume too low; faulty headset.	Ensure the headset is fully plugged into the 3.5mm jack. Increase volume using the '+' button. Test with another headset if available.

If the problem persists after attempting these solutions, please contact EJEAS customer support for further assistance.

## 8. SPECIFICATIONS

Feature	Detail
Model Name	FBIM
Connectivity Technology	Wireless, Bluetooth 5.1
Intercom Range	Up to 1500m (4 units)
Battery Capacity	850mAh Lithium Ion
Talk Time	Up to 19 hours
Standby Time	Up to 260 hours
Charging Time	Approx. 2.5 hours
Noise Control	Adaptive Noise Cancellation (CVC)
Water Resistance Level	IP65 Waterproof
Headphones Jack	3.5 mm Jack
Product Dimensions	1.81 x 0.71 x 3.27 inches (46 x 18 x 83 mm)
Item Weight	6.8 ounces (per unit)
Material	Plastic



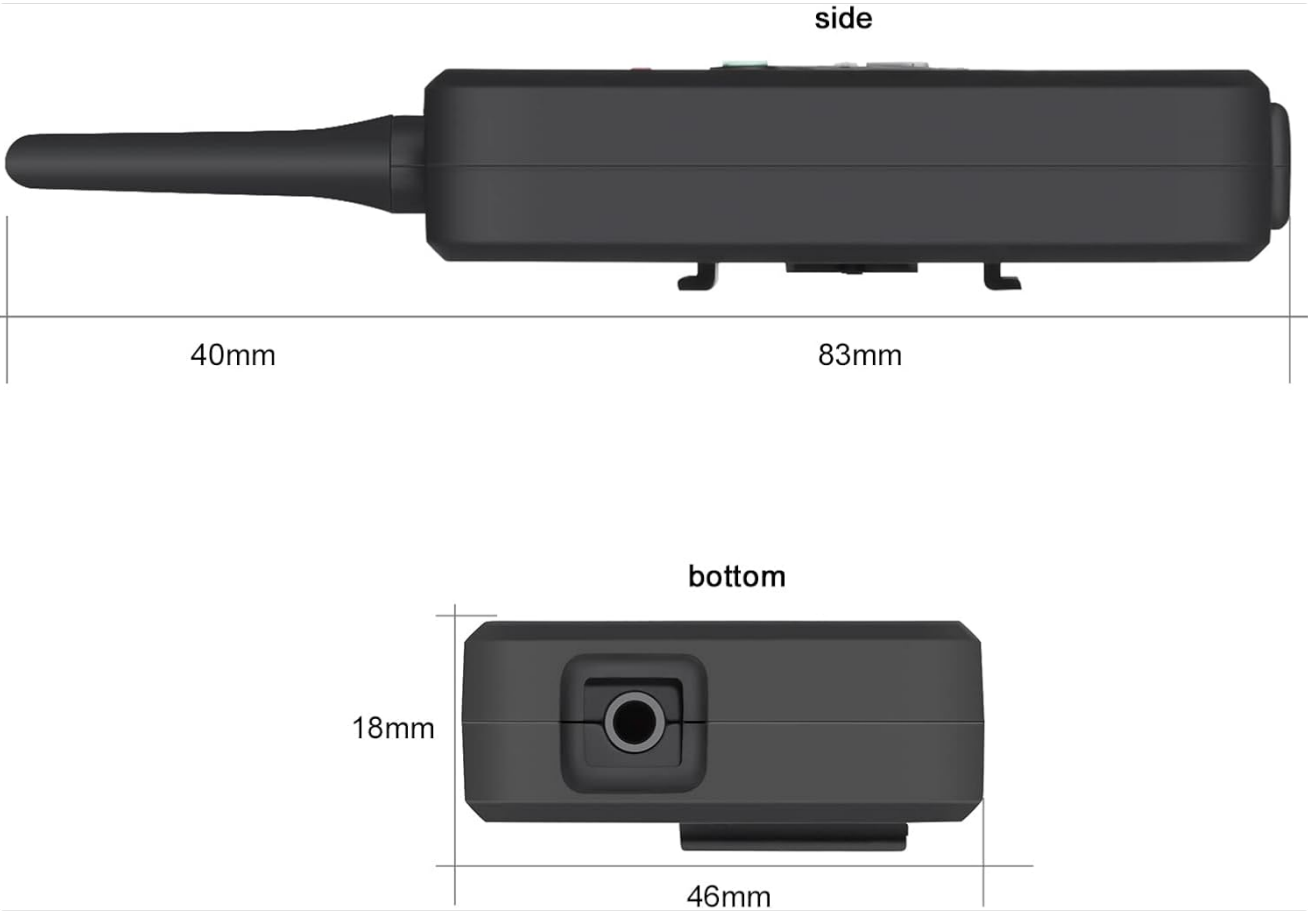


Image 8.1: Dimensions of the EJEAS FBIM intercom unit.



## 9. WARRANTY AND SUPPORT

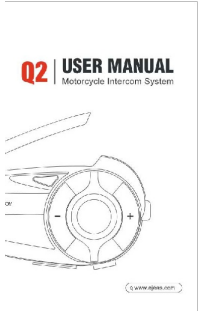
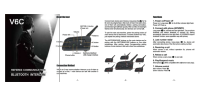
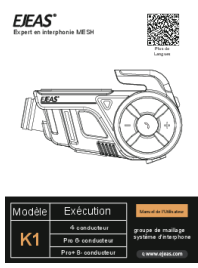
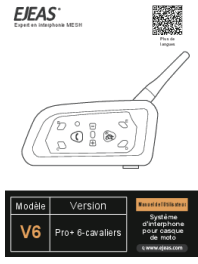
For warranty information, product registration, or technical support, please refer to the official EJEAS website or contact their customer service directly. Details can typically be found on the manufacturer's packaging or their official online resources.

**EJEAS Official Store:** [Visit the EJEAS Store on Amazon](#)

© 2024 EJEAS. All rights reserved.

### Related Documents - FBIM

	<p><a href="#">EJEAS V6C Bluetooth Intercom: User Guide and Pairing Instructions</a></p> <p>Comprehensive guide to the EJEAS V6C 6-Referee Bluetooth Intercom, covering host features, connection methods, pairing instructions, mobile app integration, and troubleshooting. Learn how to connect up to 6 riders for clear communication.</p>
	<p><a href="#">EJEAS F6 / F6 PRO Referee Mesh Intercom System User Manual</a></p> <p>Comprehensive user manual for the EJEAS F6 and F6 PRO Referee Mesh Intercom System, detailing setup, operations, features, and pairing procedures for referees.</p>

	<p><a href="#">EJEAS Q2 Motorcycle Intercom System User Manual</a></p> <p>Comprehensive user manual for the EJEAS Q2 Motorcycle Intercom System, detailing installation, operation, Bluetooth pairing, FM radio, and SafeRiding App integration for motorcycle riders.</p>
	<p><a href="#">EJEAS V6C Bluetooth Intercom User Manual</a></p> <p>User manual for the EJEAS V6C Bluetooth Intercom system, detailing its functions, connection methods, and pairing instructions for referee communication.</p>
	<p><a href="#">Manuel d'Utilisation EJEAS K1 Series - Interphone MESH et Bluetooth</a></p> <p>Découvrez le manuel d'utilisation complet des systèmes d'interphonie MESH EJEAS K1, K1Pro et K1Pro+. Ce guide détaillé couvre l'installation, le fonctionnement, le couplage Bluetooth, la radio FM, le contrôle de la musique, la gestion de la caméra et les mises à niveau du micrologiciel pour une communication moto optimale.</p>
	<p><a href="#">Manuel d'Utilisation EJEAS V6 Pro+ Interphone Bluetooth pour Casque de Moto</a></p> <p>Découvrez le manuel d'utilisation complet de l'interphone Bluetooth EJEAS V6 Pro+ 6-cavaliers pour casque de moto. Apprenez l'installation, le fonctionnement, le couplage avec téléphones et autres interphones, ainsi que les précautions d'emploi pour une communication stable et sécurisée en groupe.</p>