

OBEST E1pro

OBEST E1pro Motorcycle Helmet Bluetooth Headset with 2K Camera User Manual

Model: E1pro

1. INTRODUCTION

Thank you for choosing the OBEST E1pro Motorcycle Helmet Bluetooth Headset. This device integrates a 2K camera, Bluetooth communication system, and FM radio, designed to enhance your riding experience with safety and connectivity. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance.

2. PRODUCT FEATURES

- **2K Camera & 140° Wide Angle:** Equipped with a 2K/30fps all-glass lens and 140° wide angle for clear video capture. Supports up to 256GB memory expansion (SD card not included).
- **Rotatable Host/Lens:** Features a 360° rotatable base and 15° horizontally adjustable lens for flexible shooting angles.
- **6-Person 800M Intercom:** Supports real-time intercom for up to 6 riders within an 800-meter range using Bluetooth 5.1.
- **Intelligent Noise Cancellation:** Advanced noise reduction microphone with Active Noise Cancellation (ANC) for clear audio.
- **Multi-functional:** Supports music sharing, hands-free calls, volume control, GPS navigation, and FM radio.
- **Long Battery Life:** Built-in 2350 mAh lithium battery provides approximately 6 hours of video recording, 76 hours of intercom/phone use, and 118 hours of Bluetooth/FM radio.
- **Waterproof:** IP65 rated for water and sand resistance.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Motorcycle Bluetooth Helmet Camera Headset (Host)
- Gear clamps (x1)
- Helmet clamps (x1)

- Horn with velcro pads (x2)
- Soft microphone stand (x1)
- Headphone cotton cover (x2)
- Thick horn gasket (x2)
- Velcro pads for soft microphones (x2)
- Microphone cover (x1)
- 1 pair of headphones (hard microphone and soft microphone options)



Figure 3.1: Package contents and installation overview.

4. PRODUCT OVERVIEW AND CONTROLS

Familiarize yourself with the device's buttons and indicators:



Figure 4.1: OBEST E1pro control layout.

- **Recorder On/Off Key:** Powers the camera on or off.
- **Headphone On/Off Key:** Powers the Bluetooth headset on or off.
- **Multi-function Key:** Used for various operations like pairing, answering calls, and music control.
- **One-touch Intercom Button:** Initiates or ends intercom communication.
- **Volume Knob:** Adjusts audio volume.
- **Mode Key:** Switches between different modes (e.g., FM radio, music).

- **Work Indicator:** Displays device status (e.g., power, recording, pairing).

5. INSTALLATION

Follow these steps to install the OBEST E1pro on your helmet:

1. **Mount the Bracket:** Choose between the gear clamp or adhesive helmet clamp. Securely attach the chosen clamp to the side of your helmet. Ensure the arrow on the bracket points upwards.
2. **Align and Fix:** Align the fixed clamps and tighten the screws with the hexagonal wrench provided.
3. **Attach the Host:** Snap the main unit (recorder) onto the mounted bracket from top to bottom until it clicks into place.
4. **Install Microphones and Speakers:**
 - Attach the speakers inside the helmet, aligning them with your ears. Use the velcro pads for secure placement.
 - Connect the microphone. Choose between the hard microphone (for open-face helmets) or soft microphone (for full-face helmets) and position it near your mouth.

2K VIDEO RECORDING
Support Video Resolution with **2K/30fps**

720P 1080P 2K/30FPS

30FPS HD

Figure 5.1: Headset mounted on a helmet.



Figure 5.2: Detailed view of the headset attachment.

6. SETUP AND PAIRING

6.1. Power On/Off

Press and hold the Headphone On/Off Key for 3 seconds to power on or off the headset. Press and hold the Recorder On/Off Key for 3 seconds to power on or off the camera.

6.2. Bluetooth Pairing with Phone

1. Ensure the headset is powered off.
2. Press and hold the Multi-function Key until the indicator light flashes red and blue alternately, indicating pairing mode.
3. On your smartphone, enable Bluetooth and search for "OBEST E1pro".
4. Select the device to pair. Once connected, the indicator light will turn blue.

6.3. Camera Setup

The E1pro features a 2K/30fps camera with a 140° wide angle lens. Insert a Micro SD card (up to 256GB, not included) into the designated slot before recording. The camera supports loop recording, automatically overwriting the oldest files when the card is full.



Figure 6.1: 2K Video Recording and Lens Details.

The camera lens can be adjusted 15° horizontally, and the entire unit can rotate 360° on its base for optimal shooting angles.



Figure 6.2: Wide Angle Shooting and Adjustment.

6.4. Wi-Fi Direct Connection

For camera settings and video playback, connect your smartphone to the E1pro's Wi-Fi network. Refer to the dedicated app instructions for detailed steps.

7. OPERATION

7.1. Intercom Communication

The E1pro supports intercom communication for up to 6 riders within an 800-meter range.

1. Ensure all participating E1pro units are powered on and within range.
2. Press the One-touch Intercom Button on your device to initiate intercom pairing.
3. Follow the pairing instructions for multiple units (refer to the full manual for detailed multi-unit pairing sequences).
4. Once connected, press the One-touch Intercom Button to start or end a conversation.



Figure 7.1: 6-Rider Group Intercom.

7.2. Music Playback and Sharing

After pairing with your phone, you can play music. Use the Multi-function Key to play/pause and the Volume Knob to adjust volume. The E1pro also supports music sharing with another paired device.

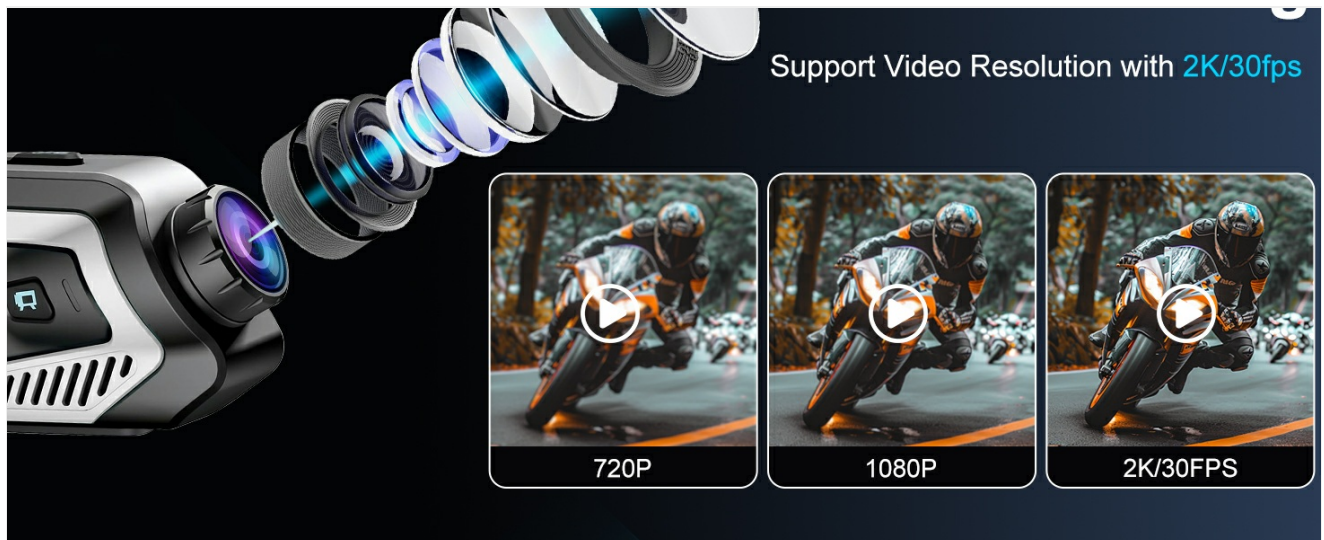


Figure 7.2: Music Sharing Feature.

7.3. Phone Calls

When a call comes in, the device will announce it. Press the Multi-function Key once to answer, or press and hold to reject. Press the Multi-function Key again to hang up.

7.4. FM Radio

Press the Mode Key to switch to FM radio mode. Use the Volume Knob to scan for stations or adjust volume.



Figure 7.3: FM Radio Functionality.

7.5. GPS Navigation

Once paired with your smartphone, GPS voice commands from your navigation app will be transmitted through the headset speakers.

7.6. Noise Cancellation (ANC)

The E1pro features Active Noise Cancellation (ANC) to reduce environmental noise for clearer communication and audio experience.



Figure 7.4: Active Noise Cancellation in action.

8. BATTERY LIFE AND CHARGING

The device is equipped with a 2350 mAh rechargeable lithium battery. Charging is done via the included USB cable.

- Video Recording: Approximately 6 hours
- Intercom/Phone Calls: Approximately 76 hours
- Bluetooth Music/FM Radio: Approximately 118 hours



**EQUIPPED WITH
ACTIVE NOISE CANCELLATION ANC**

Figure 8.1: Battery life estimates for various functions.

9. SPECIFICATIONS

Feature	Specification
Model Name	E1pro
Connectivity Technology	Wireless (Bluetooth 5.1)
Camera Resolution	2K/30fps
Camera Wide Angle	140°
Intercom Range	Up to 800 meters
Max Intercom Riders	6 people
Battery Capacity	2350 mAh
Video Recording Time	Approx. 6 hours
Intercom/Phone Time	Approx. 76 hours
Bluetooth/FM Radio Time	Approx. 118 hours
Noise Control	Active Noise Cancellation (ANC)
Water Resistance Level	IP65
Material	Plastic
Item Weight	13.6 ounces

10. MAINTENANCE

To ensure the longevity and optimal performance of your OBEST E1pro headset, follow these maintenance guidelines:

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the device. Avoid using harsh chemicals or abrasive cleaners.
- **Water Resistance:** The device is IP65 rated, meaning it is protected against dust and low-pressure water jets. Do not submerge the device in water. Ensure all ports are securely closed before exposure to moisture.

- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, charge the battery to about 50% every three months to prevent deep discharge.

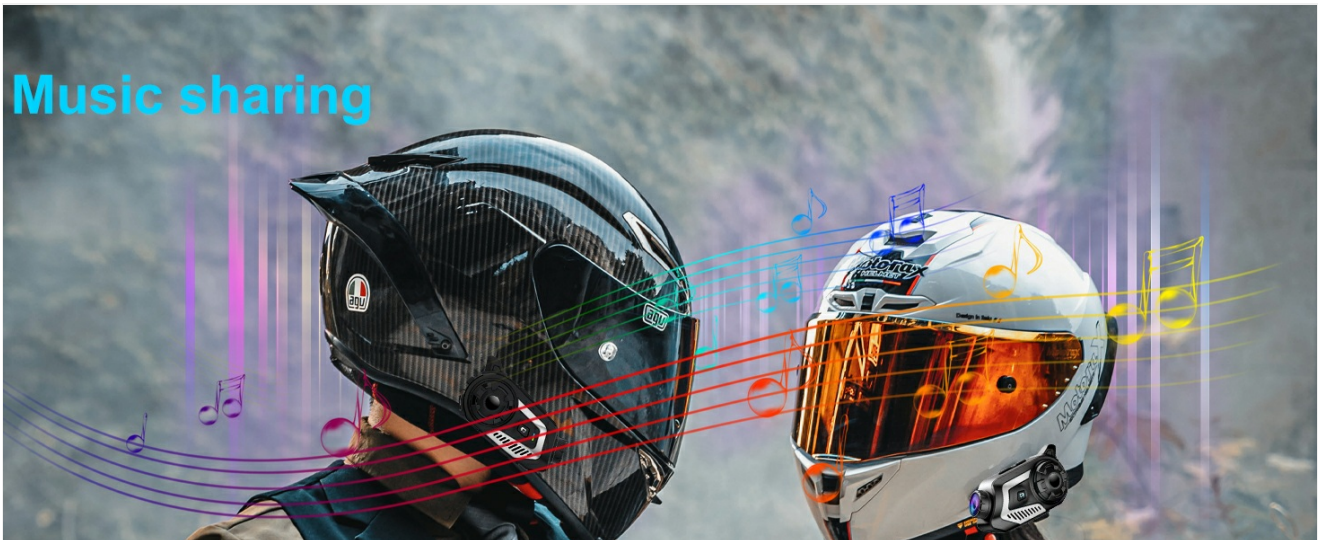


Figure 10.1: IP65 Water and Sand Resistance.

11. TROUBLESHOOTING

If you encounter issues with your OBEST E1pro, refer to the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the battery is charged. Connect the device to a power source and try again.
- **Cannot Pair Bluetooth:** Make sure the device is in pairing mode (flashing red and blue). Ensure your phone's Bluetooth is enabled and try restarting both devices.
- **No Audio/Poor Audio Quality:** Check volume levels on both the headset and your connected device. Ensure speakers are correctly positioned inside the helmet. Verify microphone connection.
- **Intercom Not Connecting:** Ensure all units are within range and in intercom pairing mode. Follow the multi-unit pairing instructions carefully.
- **Camera Not Recording/Poor Video:** Ensure a compatible Micro SD card is inserted and has sufficient free space. Check the camera lens for obstructions or dirt. Format the SD card if issues persist.
- **Wi-Fi Connection Issues:** Ensure the camera's Wi-Fi is enabled. Try restarting the camera and your smartphone's Wi-Fi.

If problems persist, please contact OBEST customer support for further assistance.

12. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official OBEST website or contact your retailer. Keep your purchase receipt for warranty claims.