

Imou IPC-B7ED-5M0TEA-EU/FSP14

IMOU AOV PT DUAL 3K UHD 4G/WiFi Battery Security Camera with Solar Panel User Manual

Model: IPC-B7ED-5M0TEA-EU/FSP14

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your IMOU AOV PT DUAL Security Camera System. This system is designed for comprehensive surveillance, featuring 3K UHD resolution, dual 4G and Wi-Fi connectivity, a 10,000mAh battery, and a 5W solar panel for continuous power. It incorporates advanced AI human detection and pan-tilt capabilities for extensive coverage.

2. PACKAGE CONTENTS

- IMOU AOV PT DUAL Security Camera
- 5W Solar Panel
- Mounting Bracket and Screws
- USB Charging Cable
- Quick Start Guide
- Drill Template

3. PRODUCT OVERVIEW

3.1 Components

The IMOU AOV PT DUAL camera system consists of the main camera unit and a separate solar panel. The camera features a lens, infrared LEDs, spotlight, microphone, speaker, and status indicator. The solar panel is designed to provide supplementary power to the camera's internal battery.



Figure 1: IMOU AOV PT DUAL Security Camera and Solar Panel Kit. The image displays the white camera unit with its black lens housing, mounted alongside a black solar panel.



Figure 2: Rear view of the camera unit. This image highlights the accessible slots for the SIM card and MicroSD card, located on the underside of the camera's main body.

3.2 Key Features

- **Dual Connectivity:** Supports both 4G cellular and Wi-Fi networks for flexible deployment.
- **Always-on Video (AOV):** Captures one frame every 2 seconds during idle periods and switches to full-frame recording upon event detection.
- **Extended Battery Life:** Equipped with a 10,000mAh battery, continuously charged by a 5W solar panel.
- **3K UHD Imaging:** Provides high-resolution video for clear monitoring.
- **Pan & Tilt:** Offers 340° horizontal pan and 90° vertical tilt for comprehensive area coverage.
- **AI Human Detection:** Utilizes IMOU SENSE® AI to accurately detect human figures and reduce false alarms.
- **Night Vision:** Features smart full-color night vision for clear images in low-light conditions.
- **Weatherproof Design:** IP66 rated for outdoor use, operating in temperatures as low as -10°C.
- **Local Storage:** Supports MicroSD cards up to 512GB.

4. SETUP AND INSTALLATION

4.1 Mounting the Camera and Solar Panel

The camera and solar panel can be mounted on a wall, pole, or other suitable surface. Ensure the mounting location provides a clear view of the area to be monitored and sufficient sunlight exposure for the solar panel.

1. Select a mounting location that is stable and can support the weight of the camera and solar panel.
2. Use the provided drill template to mark the screw holes.
3. Drill holes and insert wall anchors if necessary.
4. Secure the mounting bracket for the camera and solar panel using the screws.
5. Attach the camera and solar panel to their respective brackets. Adjust the solar panel's angle to maximize sunlight exposure.
6. Connect the solar panel cable to the camera's charging port.



Figure 3: Example installation of the camera and solar panel on a wooden pole in an outdoor setting. The solar panel is positioned to capture sunlight, and the camera is directed towards the monitored area.

4.2 Network Connection (4G/Wi-Fi)

The camera supports both 4G cellular and Wi-Fi connections. Insert a compatible 4G SIM card into the designated slot (refer to Figure 2) for cellular connectivity, or connect the camera to your existing 2.4GHz Wi-Fi network during the app setup process.

Wi-Fi or 4G, the choice is yours



Figure 4: The camera unit shown with graphical representations of Wi-Fi and 4G signals, illustrating its dual connectivity options for flexible network integration.

4.3 App Configuration

Download the official IMOU Life app from your smartphone's app store. Follow the in-app instructions to add your camera, configure network settings, and customize surveillance preferences. Ensure your smartphone is connected to the internet during the setup process.

5. OPERATION

5.1 Recording Modes and Continuous Recording

The AOV PT DUAL camera utilizes Always-on Video (AOV) technology. In power-saving mode, it captures one frame every 2 seconds. Upon detection of an event, it automatically switches to full-frame recording. This ensures continuous monitoring while optimizing battery usage.

Longer the detection, safer the protection



Figure 5: An outdoor scene illustrating the extended detection range of the AOV PT DUAL camera (25 meters) compared to a standard PIR-triggered recording (9 meters), demonstrating its enhanced surveillance capability.

5.2 Pan and Tilt Functionality

Control the camera's pan (horizontal) and tilt (vertical) movements remotely via the IMOU Life app. This allows for a 340° horizontal rotation and 90° vertical tilt, providing a comprehensive view of your property.

5.3 AI Human Detection

The integrated IMOU SENSE® AI technology accurately identifies human figures, distinguishing them from other moving objects like animals or swaying branches. This reduces false alarms and ensures you receive relevant notifications.

5.4 Night Vision and Deterrence

The camera offers smart full-color night vision, providing clear and detailed images even in complete darkness. Additionally, it features distinctive red and blue warning lights that can be activated to deter intruders.

Stronger deterrent for intruders



Figure 6: A close-up view of the camera's front, with its red and blue warning lights illuminated. These lights serve as a visual deterrent against unauthorized presence.

5.5 Video Demonstration of Key Features

The following video demonstrates the AI human detection, night vision capabilities, solar charging, dual connectivity, and continuous recording features of the IMOU AOV PT DUAL camera system.



Video 1: Demonstration of IMOU AOV PT DUAL Security Camera features, including AI human detection, smart full-color night vision, solar power, 4G/Wi-Fi connectivity, and 24/7 continuous recording capabilities.

6. MAINTENANCE

6.1 Battery and Solar Panel

Ensure the solar panel is kept clean and free from obstructions (e.g., leaves, dirt) to maximize charging efficiency. Periodically check the battery level via the app. The camera is designed to operate reliably even in cold temperatures.

Unfazed by the cold, reliable charging in low temperatures

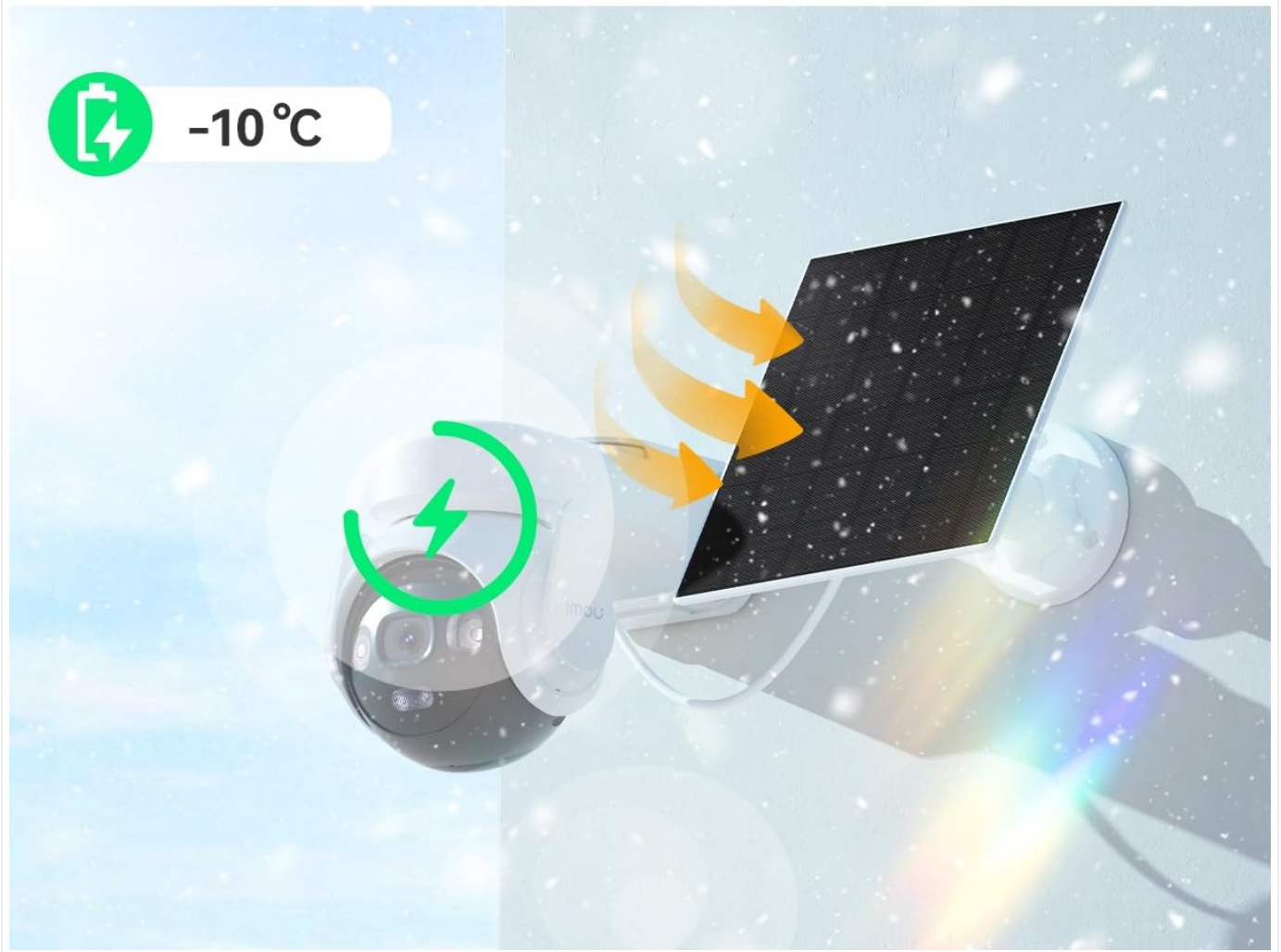


Figure 7: The camera and solar panel operating in a snowy, cold environment, demonstrating its resilience and reliable charging performance even at -10°C.

6.2 Storage Management

The camera supports MicroSD card storage up to 512GB. Regularly review and back up important footage. The AOV technology helps optimize storage by prioritizing event-triggered recordings.

7. TROUBLESHOOTING

- **No Power:** Ensure the solar panel is receiving adequate sunlight and is properly connected. Check the battery level in the app.
- **No Network Connection:** Verify 4G SIM card is correctly inserted and has an active data plan, or check Wi-Fi signal strength and router connection.
- **False Alarms:** Adjust AI human detection sensitivity settings in the app to minimize alerts from non-human movements.
- **Poor Video Quality:** Ensure the camera lens is clean and free from obstructions. Check network bandwidth.
- **Camera Not Responding:** Try restarting the camera by temporarily disconnecting its power source. If issues persist, perform a factory reset (refer to the Quick Start Guide for instructions).

8. SPECIFICATIONS

Feature	Specification
Brand	Imou
Model	IPC-B7ED-5M0TEA-EU/FSP14
Resolution	3K UHD
Connectivity	4G, Wi-Fi
Battery Capacity	10,000mAh
Solar Panel Power	5W
Pan Range	0°-340°
Tilt Range	0°-90°
AI Detection	IMOU SENSE® AI Human Detection
Night Vision	Smart Full Color Night Vision
Waterproof Rating	IP66
Operating Temperature	As low as -10°C
Local Storage	Up to 512GB MicroSD card
Product Dimensions	18.1 x 22.3 x 17.9 cm
Item Weight	0.72 Kilograms

9. WARRANTY AND SUPPORT

The IMOU AOV PT DUAL Security Camera System comes with a manufacturer's warranty of 2 years. For technical support, warranty claims, or further assistance, please refer to the contact information provided in your product packaging or visit the official Imou website. Spare part information is not available or provided by the manufacturer.

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

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Email

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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