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› Ctronics 5MP PTZ Outdoor Surveillance Camera User Manual

Ctronics CTIPC-530C-5MPB (530-B)

Ctronics 5MP PTZ Outdoor Surveillance Camera User Manual

Model: CTIPC-530C-5MPB (530-B)

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Ctronics 5MP PTZ Outdoor Surveillance Camera. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

The Ctronics 5MP PTZ Outdoor Surveillance Camera is designed for outdoor security, offering advanced features such as 5MP Ultra HD resolution, 2.4GHz/5GHz dual-band WiFi connectivity, human detection with auto-tracking, 25-meter night vision, two-way audio, and IP66 weather resistance.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent damage to the device or injury to yourself and others:

- Ensure the power supply matches the camera's specifications.
- Do not expose the camera to extreme temperatures or humidity outside its operating range.
- Avoid direct exposure to sunlight for prolonged periods, which may affect image quality or device lifespan.
- Do not attempt to disassemble or modify the camera. Refer all servicing to qualified personnel.
- Mount the camera securely to prevent it from falling.
- Keep the camera away from strong electromagnetic fields.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Ctronics 5MP PTZ Outdoor Surveillance Camera
- Power Adapter
- Mounting Screws and Plugs
- Waterproof Kit
- User Manual (this document)
- 32GB TF Card (pre-installed or included)

4. PRODUCT OVERVIEW

Familiarize yourself with the main components of the camera.



Figure 4.1: Front view of the Ctronics 5MP PTZ Outdoor Surveillance Camera, showing the dome lens, IR LEDs, and antenna.

- **Camera Lens:** Captures video footage.
- **IR LEDs:** Provide infrared illumination for night vision.
- **Microphone:** Captures audio for two-way communication.
- **Speaker:** Outputs audio for two-way communication and alarms.
- **Antenna:** For 2.4GHz/5GHz dual-band WiFi connectivity.
- **Power Port:** Connects to the power adapter.
- **Ethernet Port:** For wired network connection (optional).
- **TF Card Slot:** For local storage of recordings (supports up to 128GB).

5. SETUP AND INSTALLATION

5.1 Initial Setup

1. **Power On:** Connect the camera to the power adapter and plug it into an electrical outlet. The camera will perform a self-test.
2. **Download App:** Download the "Ctronics Pro" app from the App Store (iOS) or Google Play Store (Android). For PC/Mac, download "HIP2P" software.
3. **Register Account:** Open the app and register a new account or log in if you already have one.
4. **Add Device:** Tap the "+" icon in the app to add a new device. Follow the on-screen instructions to connect the camera to your 2.4GHz or 5GHz Wi-Fi network. Ensure your phone is connected to the same Wi-Fi network during setup.
5. **Network Connection:** The camera supports both 2.4GHz and 5GHz dual-band Wi-Fi for a stable and fast connection. For wired connection, plug an Ethernet cable into the camera's Ethernet port and connect it to your router.

2.4/5GHz Dual Band WiFi Connection

20M Transmission | Ethernet Connection

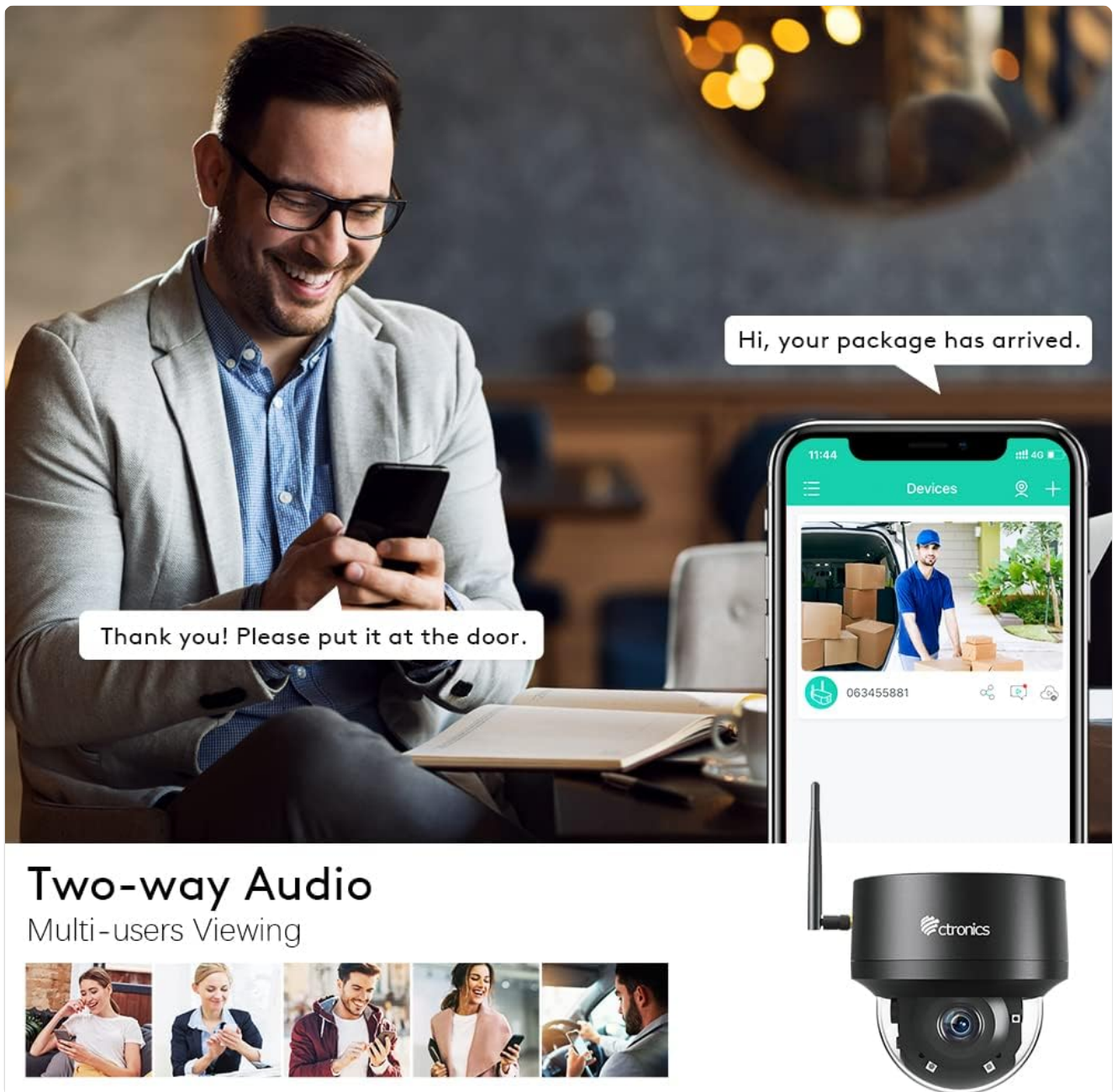


Figure 5.1: Illustration of the camera's dual-band WiFi capability, showing 5GHz for fast data speed and 2.4GHz for longer transmission distance.

5.2 Mounting the Camera

Choose a suitable outdoor location that provides the desired viewing angle and is within range of your Wi-Fi network or Ethernet connection. The camera is IP66 waterproof, suitable for various weather conditions.

1. **Mark Drilling Positions:** Use the mounting template (if provided) or the camera base to mark the drilling positions on the wall or ceiling.
2. **Drill Holes:** Drill holes at the marked positions and insert the wall plugs.
3. **Secure Camera:** Align the camera base with the drilled holes and secure it using the provided screws.
4. **Connect Power:** Connect the power adapter to the camera and ensure the connection is waterproof using the provided kit.



Thank you! Please put it at the door.

Hi, your package has arrived.

11:44 4G

Devices

063455881

Two-way Audio

Multi-users Viewing

ctronics

Figure 5.2: The camera mounted outdoors, demonstrating its IP66 waterproof design under rain.

6. OPERATING THE CAMERA

6.1 Live View and PTZ Control

Once connected, open the Ctronics Pro app to access the live view. You can control the camera's pan (355°) and tilt (90°) functions directly from the app to adjust the viewing angle.



Figure 6.1: A view of the camera mounted on a building, showcasing its 5MP HD resolution for clear image capture.

6.2 Human Detection and Auto Tracking

The camera features advanced AI algorithms for intelligent human detection, reducing false alarms by 95%. When human motion is detected, the camera will automatically track the movement and send real-time notifications to your smartphone.



Figure 6.2: An illustration of the camera detecting and tracking human movement, with icons for audio alarm, email, FTP, and app push notifications.

6.3 Night Vision

Equipped with 2 IR LEDs and advanced digital image noise reduction, the camera provides clear night vision up to 25 meters (82 feet). The intelligent IR auto-switch ensures optimal visibility in low-light conditions.

25M Night Vision

Support 355°pan 90°tilt



Figure 6.3: The camera mounted outdoors at night, demonstrating its 25-meter night vision capability, with a smartphone showing the clear night view.

6.4 Two-Way Audio

The built-in microphone and speaker enable real-time two-way conversation with visitors or to deter intruders. You can communicate through the Ctronics Pro app.



Figure 6.4: A person interacting with a delivery driver via the camera's two-way audio feature, showing the camera and a smartphone interface.

6.5 Recording and Storage

The camera supports continuous recording (24/7 NVR recording) and event-triggered recording (e.g., upon human detection). Recordings are automatically saved to the included 32GB TF card, which can be upgraded to a 128GB TF card.

The camera also supports cloud storage and FTP server recording (if configured).

6.6 Custom Audio Alarm

You can set a custom audio alarm through the app. When human motion is detected, the camera will play the customized audio alarm, in addition to sending real-time notifications to your smartphone.

7. MAINTENANCE

- **Cleaning:** Regularly clean the camera lens with a soft, dry cloth to ensure clear image quality. Do not use harsh chemicals or abrasive materials.
- **Firmware Updates:** Check the Ctronics Pro app periodically for firmware updates. Keeping the firmware updated ensures optimal performance and access to new features.
- **TF Card Management:** If using a TF card for storage, periodically review and manage recordings. The camera supports loop recording, overwriting older files when the card is full.
- **Power Connection:** Ensure the power connection remains secure and waterproof, especially in outdoor environments.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera offline / Cannot connect to Wi-Fi	Weak Wi-Fi signal; Incorrect Wi-Fi password; Router issues; Camera too far from router.	Ensure camera is within Wi-Fi range. Check Wi-Fi password. Restart router and camera. Try wired Ethernet connection for initial setup.
No image / Black screen in app	Power issue; Network issue; App glitch.	Check power connection. Verify network connectivity. Restart the app or camera.
Frequent false alarms	Sensitivity too high; Environmental factors (e.g., swaying trees, pets).	Adjust motion detection sensitivity in the app. Define specific detection zones to exclude irrelevant areas.
Night vision unclear	Lens dirty; IR LEDs obstructed; Insufficient ambient light.	Clean the camera lens. Ensure nothing is blocking the IR LEDs.
TF card not recording	TF card full; TF card not formatted; TF card faulty; Recording settings incorrect.	Format the TF card via the app. Check recording settings (e.g., continuous, event-triggered). Replace TF card if faulty.

9. SPECIFICATIONS

- **Model:** CTIPC-530C-5MPB (530-B)
- **Resolution:** 5MP Ultra HD (2560x1920p)
- **Connectivity:** 2.4GHz/5GHz Dual-band WiFi, Ethernet

- **Pan/Tilt:** 355° Pan, 90° Tilt
- **Night Vision:** Up to 25 meters (82 feet) with IR LEDs
- **Audio:** Two-Way Audio (Built-in Microphone & Speaker)
- **Detection:** Human Detection, Auto Tracking
- **Storage:** Supports up to 128GB TF Card (32GB TF card included), NVR, Cloud Storage
- **Weather Resistance:** IP66 Waterproof
- **Compatibility:** Ctronics Pro App (iOS/Android), HIP2P Software (Mac/Windows)
- **Dimensions:** 14.9 x 14.5 x 14.4 cm
- **Weight:** 870 Grams

10. WARRANTY AND SUPPORT

Ctronics products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Ctronics website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or any inquiries regarding your Ctronics camera, please contact Ctronics customer service through their official website or the contact information provided in the product packaging. You can also visit the [Ctronics Store on Amazon](#) for more information and product updates.

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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.

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