Ctronics CTIPC-790C-4MPD

Ctronics 4MP 10X Hybrid Zoom Dual-Lens WiFi Security Camera User Manual

Model: CTIPC-790C-4MPD

1. INTRODUCTION

Thank you for choosing the Ctronics 4MP 10X Hybrid Zoom Dual-Lens WiFi Security Camera. This manual provides essential information for the proper installation, operation, and maintenance of your security camera. Please read it thoroughly before use to ensure optimal performance and safety.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Ctronics 4MP Dual-Lens WiFi Security Camera
- Power Adapter
- Charging Cable
- Instruction Manual
- Mounting Bracket
- Mounting Screws

3. PRODUCT OVERVIEW

The Ctronics 4MP Dual-Lens WiFi Security Camera offers advanced surveillance features for both indoor and outdoor environments. Key functionalities include:

- **Dual-Lens with 10X Hybrid Zoom:** Equipped with a 3.6mm wide-angle lens and an 8mm telephoto lens, providing a 10x hybrid zoom capability for detailed monitoring.
- **4MP 2.5K QHD Resolution:** Delivers clear and detailed video footage (2560x1440 pixels).
- **Advanced Night Vision:** Features dual spotlights for color night vision up to 30 meters, with selectable Color, Infrared, and Smart modes.
- **Dual-Band WiFi Connectivity:** Supports both 2.4GHz and 5GHz WiFi for stable and fast connections, along with

Ethernet and AP hotspot options.

- **AI Detection & Auto Tracking:** Intelligent detection of humans and vehicles reduces false alarms and enables automatic tracking with zoom.
- **360° Panoramic View:** Offers 355° pan and 90° tilt rotation with up to 8 preset positions for comprehensive area coverage.
- **Remote Access & Multi-Camera Management:** View live or recorded footage on smartphones, tablets, or computers, and manage multiple cameras via a single application.
- **Weatherproof Design:** IP66 rated for outdoor use, featuring an external waterproof SD card slot for easy access.

Image: The camera provides 2.5K QHD resolution and 30-meter night vision, capturing clear details in various lighting conditions.
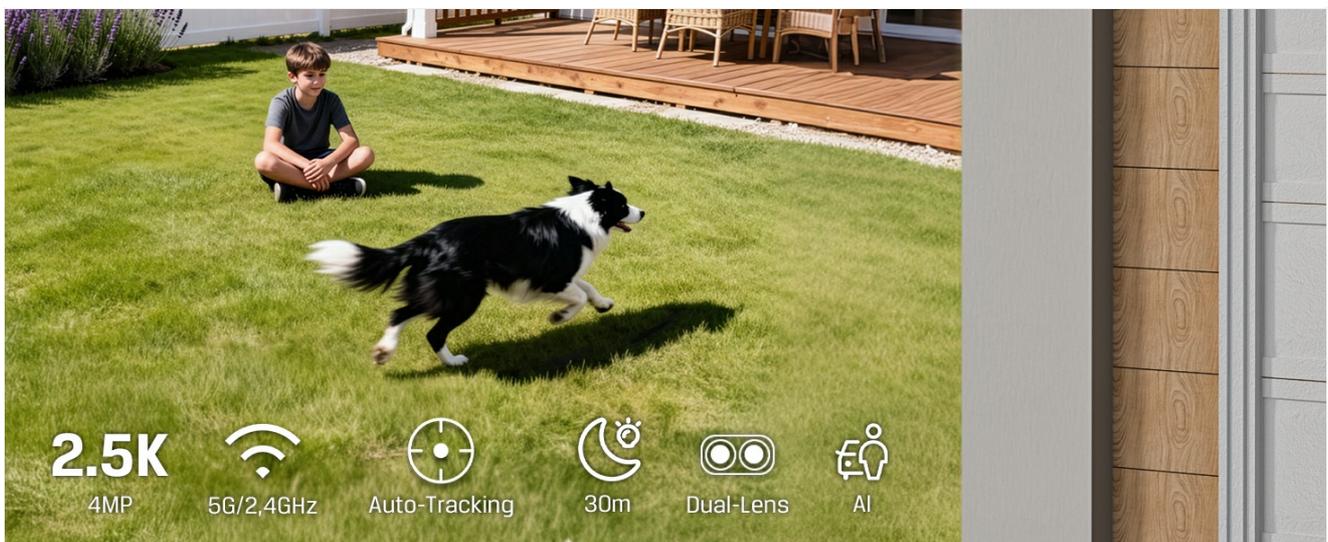

Image: Dual-lens design with 10x hybrid zoom allows for both wide-angle and magnified views, as illustrated by the car example.

4. SETUP GUIDE

4.1 Physical Installation

1. **Choose a Location:** Select a suitable outdoor or indoor location that provides the desired viewing angle and is within range of your WiFi network or Ethernet connection. Ensure the camera is mounted securely.

2. **Mount the Bracket:** Use the provided mounting bracket and screws to securely attach the camera to a wall or ceiling. For temporary setups, a 3M adhesive can be used, but permanent mounting is recommended for security.

3. **Connect Power:** Connect the power adapter to the camera and plug it into a power outlet.

Image: The camera offers flexible installation for various outdoor placements, ensuring optimal coverage.

4.2 Network Connection

Your camera supports both wired (Ethernet) and wireless (WiFi 2.4GHz/5GHz) connections. Bluetooth setup is also available for initial configuration.

1. **Wireless Connection (WiFi):**

   - Download the Ctronics Pro or HIP2P app from your device's app store.
   - Follow the in-app instructions to add your camera. This typically involves scanning a QR code on the camera or using Bluetooth for initial pairing.
   - Select your 2.4GHz or 5GHz WiFi network and enter the password.

2. **Wired Connection (Ethernet):**

   - Connect an Ethernet cable from your router to the camera's Ethernet port.
   - Open the Ctronics Pro or HIP2P app, and the camera should be automatically detected on your local network.

Image: The camera supports dual-band WiFi (2.4GHz/5GHz), AP mode, and Ethernet for versatile connectivity options.

4.3 Initial Configuration

After connecting the camera to your network, use the mobile application or PC software to complete the initial setup:

- Set a strong password for your camera.

- Configure time zone and date/time settings.
- Adjust video quality and recording preferences.
- Insert an SD card (up to 128GB, not included) into the external waterproof slot for local storage, if desired.

5. OPERATING INSTRUCTIONS

5.1 Live View and Playback

Access the Ctronics Pro or HIP2P app on your smartphone, tablet, or computer to view live video streams from your camera. You can also review recorded footage stored on the SD card, NVR/FTP, or cloud service.

Image: Seamless remote viewing is available on various devices, including smartphones and laptops, via the dedicated app.

5.2 Pan/Tilt/Zoom (PTZ) Control

Use the controls within the app to remotely adjust the camera's viewing angle:

- **Pan:** Rotate the camera horizontally up to 355°.
- **Tilt:** Adjust the camera vertically up to 90°.
- **Zoom:** Utilize the 10X hybrid zoom to magnify specific areas of interest.
- **Preset Positions:** Configure up to 8 preset positions for quick navigation to frequently monitored areas.

Image: The camera offers a 360° view and supports up to 8 preset positions for efficient monitoring of key areas.

5.3 AI Detection and Auto Tracking

The camera's advanced AI detection can differentiate between humans and vehicles, reducing false alarms. When an event is detected, the camera can automatically track the subject and zoom in for clearer details.

- **Detection Modes:** Switch between human-only detection or human + vehicle detection as needed.
- **Real-time Notifications:** Receive instant alerts on your device when motion is detected.
- **Sound & Light Alarm:** Configure the camera to activate white light and an audible alarm upon detection to deter intruders.
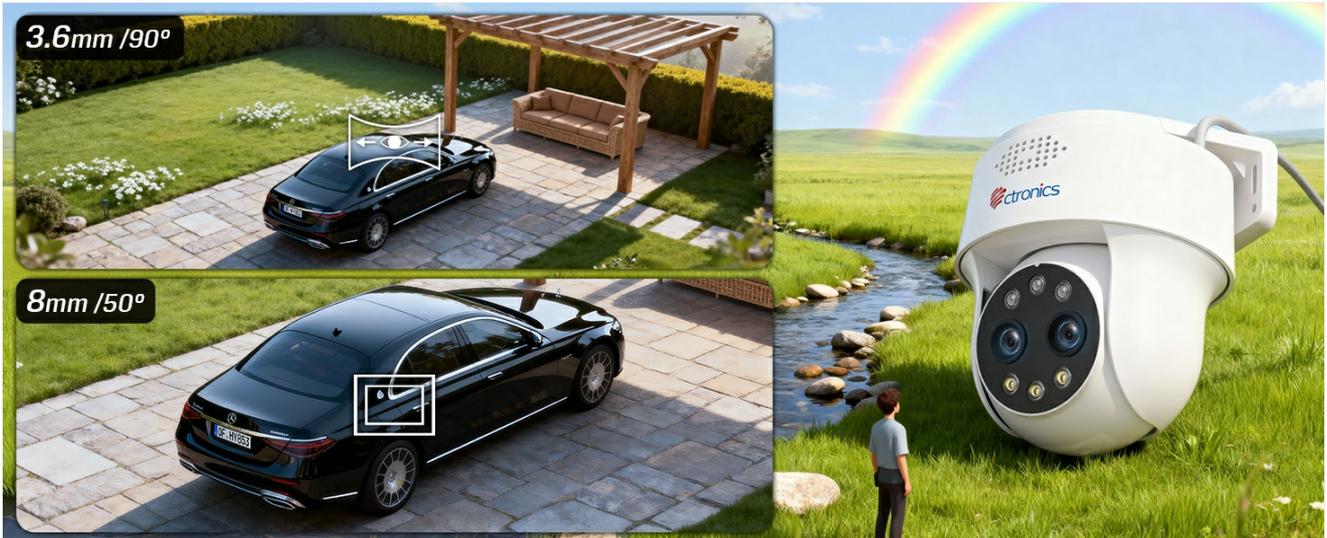

Image: AI detection and auto-tracking with zoom ensure that important movements, such as a person or vehicle, are clearly captured.

Image: The camera can trigger a sound and light alarm, along with notifications, upon detecting suspicious activity at night.

5.4 Night Vision Modes

The camera offers three distinct night vision modes:

- **Color Night Vision:** Utilizes the built-in spotlights to provide full-color video in low-light conditions.
- **Infrared Night Vision:** Uses infrared LEDs for black and white video in complete darkness.
- **Smart Night Vision:** The camera automatically switches from infrared to color night vision when motion is detected.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your camera:

- **Cleaning:** Periodically wipe the camera lens and body with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Firmware Updates:** Check the Ctronics app regularly for available firmware updates to ensure your camera has the latest features and security enhancements.
- **Weather Protection:** While the camera is IP66 weatherproof, ensure its mounting location provides some protection from extreme weather conditions for extended durability.
- **SD Card Management:** If using an SD card, periodically check its status and format it if necessary to maintain recording efficiency.

7. TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions:

- **Camera Offline:**
  - Check power connection.
  - Verify WiFi signal strength or Ethernet cable connection.
  - Restart the camera and your router.

- **Poor Video Quality:**
  - Ensure the lens is clean and free from obstructions.
  - Check your network bandwidth. A stable internet connection is crucial for high-resolution streaming.
  - Adjust video resolution settings in the app.

- **False Alarms:**
  - Adjust AI detection sensitivity in the app.
  - Set up detection zones to exclude areas with frequent irrelevant motion (e.g., trees swaying).
  - Ensure the correct detection mode (human-only or human+vehicle) is selected.

- **SD Card Not Recording:**
  - Ensure the SD card is correctly inserted into the waterproof slot.
  - Format the SD card via the app.
  - Check if the SD card has reached its capacity.

For further assistance, please refer to the Ctronics official website or contact customer support.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	790C-4MP
Video Recording Resolution	2560p (2.5K QHD)
Effective Video Resolution	2560 pixels
Color	White
Number of Items	1

Feature	Specification
Wireless Communication Technology	Wi-Fi (2.4GHz/5GHz)
Form Factor	Dome
Viewing Angle	90 Degrees
Installation Type	Screw-in
Night Vision Range	30 Meters
Frame Rate	15 frames per second
Material	Acrylonitrile Butadiene Styrene (ABS)
Voltage	12 Volts
Power	12 Watts
Item Dimensions (L x W x H)	15 x 11 x 11 centimeters
Water Resistance Level	Waterproof (IP66)
Special Features	PTZ Technology, Night Vision, 10× Hybrid Zoom
Recommended Uses	Outdoor Security
Indoor/Outdoor Use	Outdoor, Indoor
Compatible Devices	Computer, Laptop, Smartphone
Power Source	AC Power
Connectivity Protocol	Ethernet, ONVIF, RTSP, Wi-Fi
Mounting Type	Wall Mount

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Ctronics products typically come with a limited warranty. For specific warranty terms and conditions, including duration and coverage, please refer to the warranty card included with your product or visit the official Ctronics website. Keep your purchase receipt as proof of purchase for warranty claims.

9.2 Customer Support

If you require technical assistance, have questions about your product, or need to report an issue, please contact Ctronics customer support. You can usually find contact information (email, phone, or live chat) on the official Ctronics website. When contacting support, please have your product model number (CTIPC-790C-4MPD) and purchase details ready.