

Ctronics CTIPC-640C-Z16

Ctronics 4K 8MP 16X Optical Zoom PTZ WiFi Outdoor Security Camera User Manual

Model: CTIPC-640C-Z16

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Ctronics 4K 8MP 16X Optical Zoom PTZ WiFi Outdoor Security Camera. This advanced camera offers superior surveillance capabilities with its high-resolution imaging, extensive zoom, and intelligent detection features. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Ctronics 4K 16X Camera
- 1 x 3m Power Cable (with plug)
- 1 x Network Cable
- 1 x Accessories Kit (screws, anchors, etc.)
- 1 x User Manual

PRODUCT OVERVIEW AND KEY FEATURES

The Ctronics CTIPC-640C-Z16 camera is designed for robust outdoor surveillance, offering a range of advanced features:

4K 8MP Ultra HD & 16X Optical Zoom

Experience crystal-clear imaging with 4K Ultra HD resolution. The 16X optical zoom allows you to magnify distant objects without compromising image quality, enabling clear identification of faces or license plates.



Image: Ctronics 4K 8MP 16X Optical Zoom PTZ WiFi Outdoor Security Camera, showing the camera unit and a smartphone screen displaying 4K 8MP resolution and 16x zoom capability.

16X Optical Zoom 60M/197FT Visible Distance

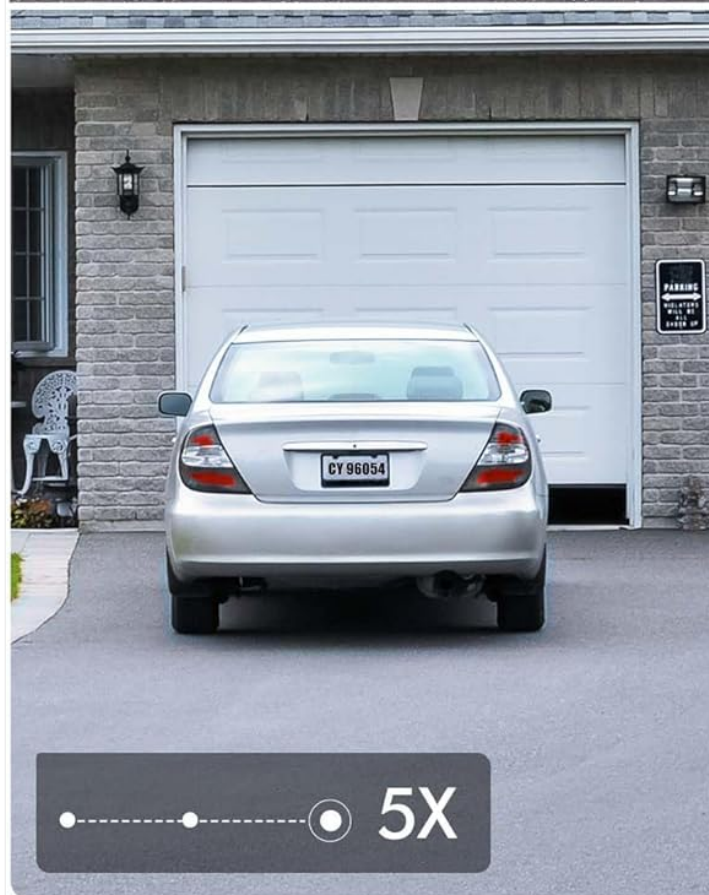


Image: Demonstration of 16X optical zoom, showing a car's license plate clearly visible at 16x magnification compared to 1x and 5x zoom levels. The visible distance is up to 60 meters (197 feet).



Intelligent Optical Zoom

-Auto Zoom in within 1 Second



Auto Tracking



1X ●●●●●●●●●●●●●●●● 16X

The magnification will be automatically adjusted based on distance.

Image: Intelligent Optical Zoom feature, demonstrating auto-zoom within 1 second and auto-tracking. A person is shown being zoomed in on as they move, with magnification automatically adjusted based on distance.

Advanced Night Vision

Equipped with a starlight lens and Sony sensors, the camera provides clear night vision up to 60m (infrared) and color night vision up to 45m, ensuring visibility even in complete darkness.

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Video: Product presentation highlighting features like full metal housing, 4K UHD video, human/vehicle/pet detection, 360-degree field of view, cruise control, auto-tracking, 60m infrared night vision, 45m color night vision, 2.4GHz & 5GHz WiFi connection, and red/blue light acoustic alarms. Please note that while the video mentions 30X optical zoom, this product features 16X optical zoom. This video is titled "640C-Z16 Product Presentation".

355° Pan & 90° Tilt (PTZ) with Auto Cruise/Tracking

Eliminate blind spots with a full 355° horizontal and 90° vertical coverage. The camera supports automatic cruise control with up to 30 preset points, and automatically tracks and zooms in on moving objects for ultimate convenience.



Image: Automatic Zoom Cruise feature, illustrating the camera's 355° pan and 90° tilt capabilities with multiple preset points around a house.

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Video: Demonstration of setting up automatic tracking (Suivi automatique) by saving a preset position. The video shows a person walking and the camera automatically tracking their movement. This video is titled "640C-Z16 Product Presentation".

Intelligent Detection & Two-Way Audio

The camera can distinguish between people, vehicles, and pets, significantly reducing false alarms. With built-in two-way audio, you can listen and speak in real-time to deter intruders or communicate with visitors.

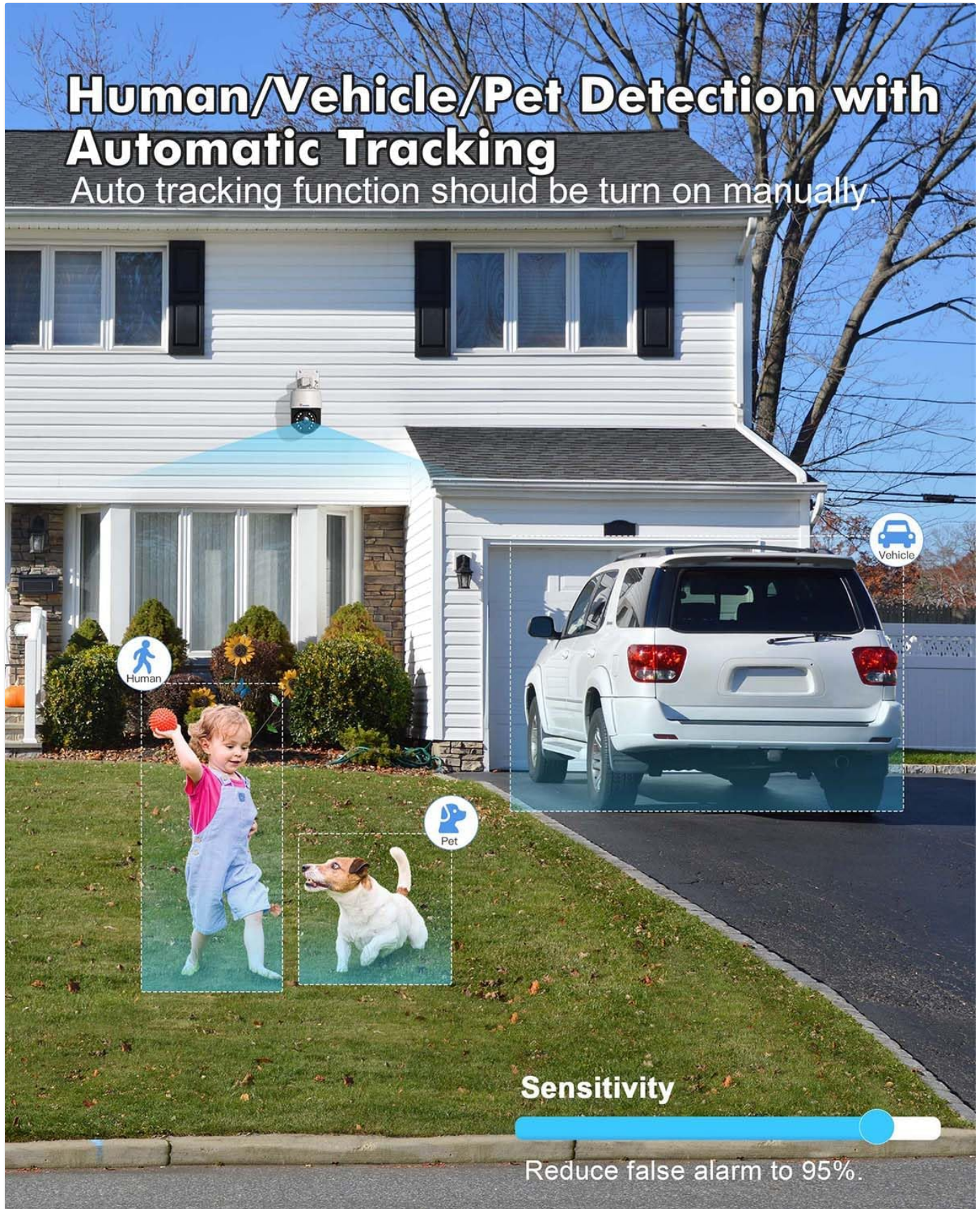


Image: Human/Vehicle/Pet Detection feature, showing the camera identifying a child, a dog, and a vehicle with bounding boxes, and a sensitivity slider to reduce false alarms.



Image: Instant Alarm and 24-Hour Monitoring, showing a person running past the camera at night, triggering sound and light alarms, and a notification on a smartphone.

Multiple Recording Options & IP66 Weather Resistance

Supports 24/7 continuous recording, or scheduled recording, with videos automatically saved to the cloud or a TF card (up to 256GB, not included). Constructed from metal, the camera boasts IP66 weather resistance for durability in various outdoor conditions.



Image: Various storage options available for the camera, including up to 256GB TF card, NVR/NAS 24/7 recording, FTP, and Ctronics Cloud storage.

Dual-Band WiFi & Broad Compatibility

Connects via 2.4GHz for longer transmission range or 5GHz for stronger network connection. Compatible with iOS, Android, Windows, and Mac OS via the Ctronics Pro app and HIP2P Client.



Image: Dual-band WiFi connectivity, showing the camera installed on a house with circles indicating 5GHz for stronger connection and 2.4GHz for longer transmission range.

Broad Compatibility

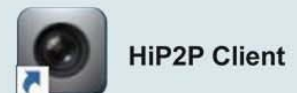
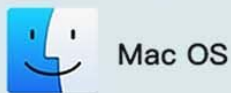


Image: Broad compatibility of the camera with various operating systems and applications, including iOS, Android, Windows, Mac OS, Ctronics Pro, and HiP2P Client, showing a laptop, tablet, and smartphone displaying camera feeds.

SETUP GUIDE

1. Initial Connection

For the initial setup, it is recommended to connect the camera to your router via an Ethernet cable for a stable connection.

Once configured, you can switch to Wi-Fi.

1. Connect the camera to a power outlet using the provided power adapter.
2. Connect one end of the network cable to the camera's Ethernet port and the other end to your router.
3. Wait for the camera to power on and initialize (indicated by a status light, refer to the camera's LED indicator guide for details).

2. App Installation and Pairing

Download the Ctronics Pro app on your smartphone or tablet. The app is available for both iOS and Android devices.

1. Search for "Ctronics Pro" in your device's app store (Apple App Store for iOS, Google Play Store for Android).
2. Install the app and create an account if you don't have one.
3. Open the app and follow the on-screen instructions to add your camera. This typically involves scanning a QR code on the camera or manually entering its UID.
4. Once the camera is detected, follow the prompts to connect it to your Wi-Fi network (2.4GHz or 5GHz).

3. Mounting the Camera

The camera supports wall or ceiling mounting. Choose a location that provides optimal viewing coverage and is within range of your Wi-Fi signal and power source.

1. Use the provided mounting template (if included) or mark the drill holes on the desired surface.
2. Drill holes and insert the wall anchors.
3. Secure the mounting bracket to the wall/ceiling using the provided screws.
4. Attach the camera to the mounting bracket, ensuring it is securely fastened.
5. Adjust the camera's angle to cover the desired area.

OPERATING INSTRUCTIONS

1. Live View and Playback

Access live video feeds and review recorded footage through the Ctronics Pro app or desktop client.

- **Live View:** Open the app and select your camera from the device list to view the real-time feed.
- **Playback:** Navigate to the playback section in the app to access recorded videos from your TF card or cloud storage.

2. PTZ Control and Optical Zoom

Control the camera's pan, tilt, and zoom functions directly from the app.

- Use the directional controls in the app to pan (horizontal movement) and tilt (vertical movement) the camera.
- Use the zoom in/out buttons to activate the 16X optical zoom.

3. Auto Cruise and Preset Points

Set up automated patrol routes for comprehensive area coverage.

1. In the app, move the camera to a desired position and save it as a preset point. You can set up to 30 preset points.
2. Configure an auto-cruise route by selecting the desired preset points and the order in which the camera should visit them.
3. Activate the auto-cruise function to have the camera automatically patrol the defined route.

4. Intelligent Detection Configuration

Customize detection settings to receive accurate alerts.

- Access the detection settings in the app.
- Enable human, vehicle, or pet detection as needed.
- Adjust sensitivity levels to minimize false alarms.
- Enable automatic tracking to have the camera follow detected objects.

5. Two-Way Audio

Communicate through the camera using the two-way audio feature.

- In live view, tap the microphone icon to speak through the camera's speaker.
- Tap the speaker icon to listen to audio from the camera's microphone.

6. Recording Settings

Manage how your footage is recorded and stored.

- Configure 24/7 continuous recording or set specific recording schedules.
- Choose your preferred storage method: TF card, NVR/NAS, or cloud storage.
- Ensure your TF card is properly inserted and formatted if using local storage.

MAINTENANCE

1. Cleaning

Regularly clean the camera lens and housing to ensure clear image quality and proper operation.

- Use a soft, damp cloth to wipe the camera's exterior.
- For the lens, use a specialized lens cleaning cloth and solution to avoid scratches.
- Do not use harsh chemicals or abrasive materials.

2. Firmware Updates

Keep your camera's firmware updated to benefit from the latest features, security enhancements, and bug fixes.

- Check for firmware updates periodically through the Ctronics Pro app.
- Follow the app's instructions carefully during the update process. Ensure a stable power supply and internet connection during updates.

3. Weather Resistance Care

While the camera is IP66 weather-resistant, proper installation and occasional checks can prolong its lifespan.

- Ensure all cables are properly sealed and protected from moisture.
- Periodically check the mounting for stability, especially after severe weather conditions.

TROUBLESHOOTING

If you encounter issues with your Ctronics camera, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the camera and a working power outlet.

- **No Network Connection:**

- Verify your Wi-Fi password is correct.
- Ensure the camera is within range of your Wi-Fi router.
- Try restarting your router and the camera.
- For initial setup, try connecting via Ethernet cable first.

- **Poor Image Quality:**

- Clean the camera lens.
- Check your network speed; a slow connection can affect streaming quality.
- Ensure the camera's resolution setting in the app is set to 4K/HD.

- **False Alarms:**

- Adjust the detection sensitivity in the app.
- Ensure human/vehicle/pet detection is enabled if you wish to filter out other movements.

- **Recording Issues:**

- Check if the TF card is inserted correctly and is not full.
- Format the TF card if necessary (this will erase all data).
- Verify your cloud storage subscription status if using cloud recording.

For further assistance, please contact Ctronics customer support.

SPECIFICATIONS

Feature	Detail
Video Recording Resolution	4K
Color	White
Number of Items	1
Wireless Communication Technology	Wi-Fi
Viewing Angle	355 degrees (Pan), 90 degrees (Tilt)
Night Vision Range	60 Meters (IR), 45 Meters (Color)
Material	Metal, Acrylonitrile Butadiene Styrene (ABS)
Voltage	12 Volts
Power	24 Watts
Item Dimensions (L x W x H)	17 x 15 x 15 centimeters
Water Resistance Level	Waterproof (IP66)
Optical Zoom	16X Multiplier

Feature	Detail
Special Features	Auto Cruise/Tracking/Zoom, Night Vision, 4K Ultra HD, Human, Vehicle, Animal Detection
Model	CTIPC-640C-Z16
Effective Still Resolution	8 Megapixels
Recommended Uses	Outdoor Security
Connectivity Technology	WiFi
Indoor/Outdoor Use	Outdoor
Compatible Devices	Smartphone
Power Source	Corded Electric
Mounting Type	Wall Mount, Ceiling Mount

WARRANTY AND SUPPORT

Ctronics offers a **three-year warranty** on this product. For any technical assistance, inquiries, or warranty claims, please contact Ctronics customer support. Many users have reported positive experiences with their support team, specifically mentioning helpful representatives like Eric and Candy.

You can typically find contact information on the official Ctronics website or within the Ctronics Pro application.

