Ctronics CTIPC-550C-Z30-4K

Ctronics 4K 8MP 30X Optical Zoom Security Camera User Manual

Model: CTIPC-550C-Z30-4K

Brand: Ctronics

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Ctronics 4K 8MP 30X Optical Zoom Outdoor WiFi Security Camera. Please read this manual thoroughly before using the product to ensure proper functionality and safety. This camera is designed for outdoor surveillance, offering advanced features such as 4K Ultra HD resolution, 30X optical zoom, AI-powered detection and tracking, auto-patrol capabilities, and robust night vision.

Figure 1: Ctronics 4K 8MP 30X Optical Zoom Outdoor WiFi Security Camera.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact Ctronics customer support.

- Ctronics 4K Security Camera (Model CTIPC-550C-Z30-4K)
- Power Adapter

- Ethernet Cable
- Mounting Template
- Mounting Screws and Anchors
- Waterproof Kit for Cable Connections
- User Manual

Video 1: Unboxing the Ctronics 4K 8MP 30X Optical Zoom Security Camera. This video demonstrates the contents of the product package, including the camera unit, power adapter, Ethernet cable, mounting hardware, and user manual.

3. PRODUCT OVERVIEW

The Ctronics 4K 8MP 30X Optical Zoom Security Camera is a robust outdoor surveillance solution. It features a durable metal casing and advanced imaging capabilities.

3.1 Camera Components

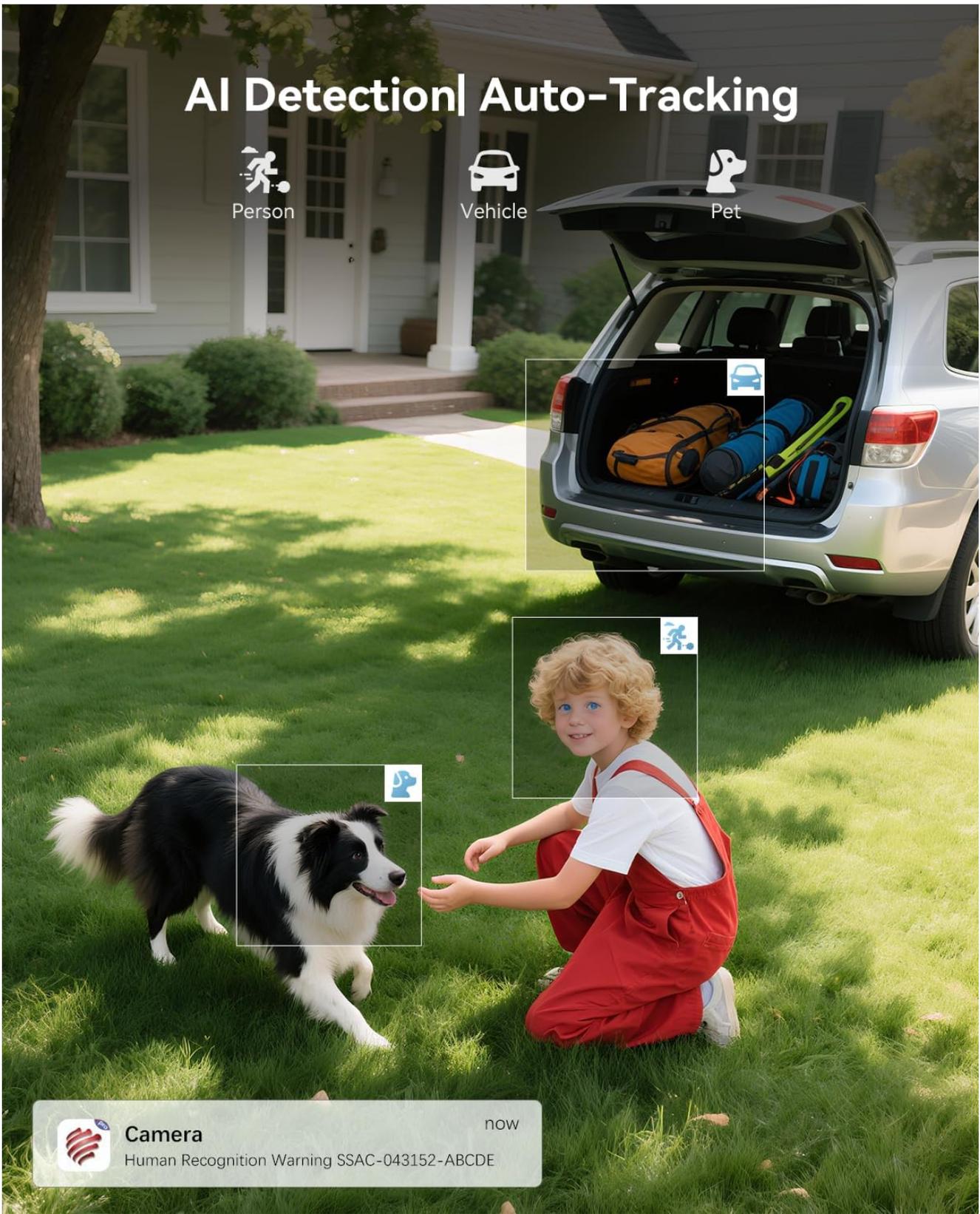Figure 2: Front view of the camera showing Blue Laser, Red Laser, and Infrared Lasers.

Figure 3: Camera dimensions (5.91 x 5.91 x 3.94 inches, 4.42 pounds).

3.2 Key Features

- **4K 8MP Ultra HD Resolution:** Delivers sharp 3840 x 2160 videos with exceptional detail.
- **30X Optical Zoom:** Powerful optical zoom for clear viewing of distant objects.
- **Advanced Night Vision:** Up to 150m black and white IR night vision and 50m color night vision using Starlight technology.
- **AI Detection & Auto Tracking:** Intelligent detection of people, vehicles, and pets with automatic tracking and zooming.

- **Auto-Patrol Function:** Supports up to 30 preset positions and 2 customizable patrol routes.
- **Red & Blue Light Alarm:** Features bright red and blue warning lights combined with audiovisual alarms to deter intruders.
- **Two-Way Audio:** Allows remote communication via the app for real-time interaction.
- **Dual-Band Wi-Fi (2.4G/5G):** Flexible connectivity options for stable network performance.
- **Local & Cloud Storage:** Supports up to 256GB local storage (Micro SD card not included) and cloud storage (subscription required).
- **Durable Construction:** IP66 weatherproof rating and metal housing for outdoor use.

4. SETUP

4.1 Physical Installation

The camera is designed for wall mounting. Use the provided mounting template to mark drilling positions. Ensure the mounting surface is strong enough to support the camera's weight. Connect the power adapter and Ethernet cable (if using wired connection) to the camera's ports, ensuring waterproof connections are properly sealed.

Figure 4: The camera features an IP66 weatherproof rating, suitable for outdoor installation in various weather conditions.

4.2 Network Connection

The camera supports dual-band Wi-Fi (2.4GHz and 5GHz) for flexible wireless connectivity. Alternatively, a wired Ethernet connection can be used for stable network access. Download the Ctronics APP from your device's app store to begin the setup process. Follow the in-app instructions to connect your camera to your home network.

5. OPERATING INSTRUCTIONS

Operate your Ctronics camera using the dedicated Ctronics APP on your smartphone or tablet. The app provides access to live view, recording playback, settings, and advanced features.

Video 2: Ctronics 4K 8MP 30X Optical Zoom Security Camera Features Overview. This video highlights key functionalities including optical zoom, night vision, AI human tracking, auto patrol, red/blue light alarm, two-way audio, and IP66 weather resistance.

5.1 Live View and Pan/Tilt/Zoom (PTZ)

Access the live feed through the app. Use the on-screen controls to pan (355°), tilt (90°), and zoom (30X optical) the camera to monitor different areas. The 30X optical zoom allows for clear magnification of distant details.

Figure 6: Demonstrating the 30X optical zoom to clearly identify details like a license plate from a distance.

5.2 Night Vision Modes

The camera offers powerful night vision. In complete darkness, it provides black and white infrared (IR) night vision up to 150 meters. With Starlight technology, it can also achieve color night vision up to 50 meters in low-light conditions.

Figure 7: Starlight Night Vision capabilities, showing both 150m IR black and white and 50m color night vision.

5.3 AI Detection and Auto Tracking

The camera's intelligent AI can accurately detect people, vehicles, and pets. Upon detection, it automatically tracks the subject and zooms in to capture detailed activity. Real-time alerts are sent to your app.

Figure 8: AI Detection and Auto-Tracking in action, highlighting detected person, vehicle, and pet.

5.4 Auto-Patrol and Presets

Configure up to 30 preset positions and 2 individually adjustable patrol routes. The camera will automatically tour these points, ensuring comprehensive coverage without blind spots. This feature is ideal for monitoring large areas.

Figure 9: Smart Auto-Cruise feature illustrating 2 patrol routes and 30 presets for extensive area monitoring.

5.5 Red & Blue Light Alarm and Two-Way Audio

When an intruder is detected, the camera can activate bright red and blue warning lights along with an audible alarm to deter them. The two-way audio feature allows you to speak through the camera's speaker and listen through its microphone via the app, enabling direct communication with visitors or intruders.
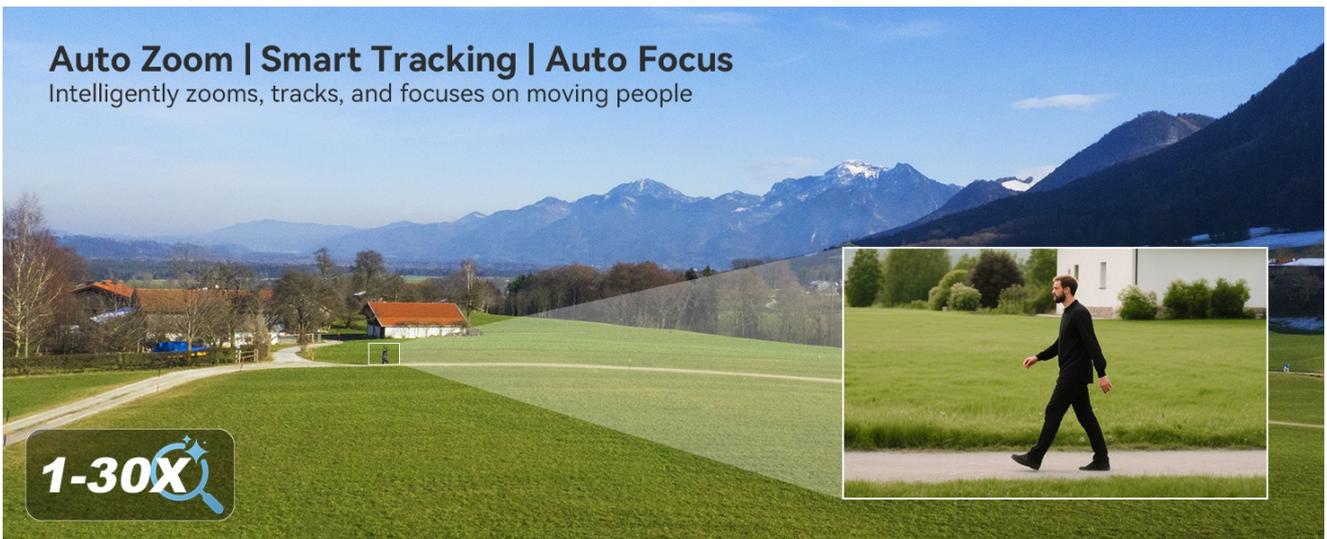

Figure 10: Red & Blue Strobe with Siren Alarm actively deterring an intruder.
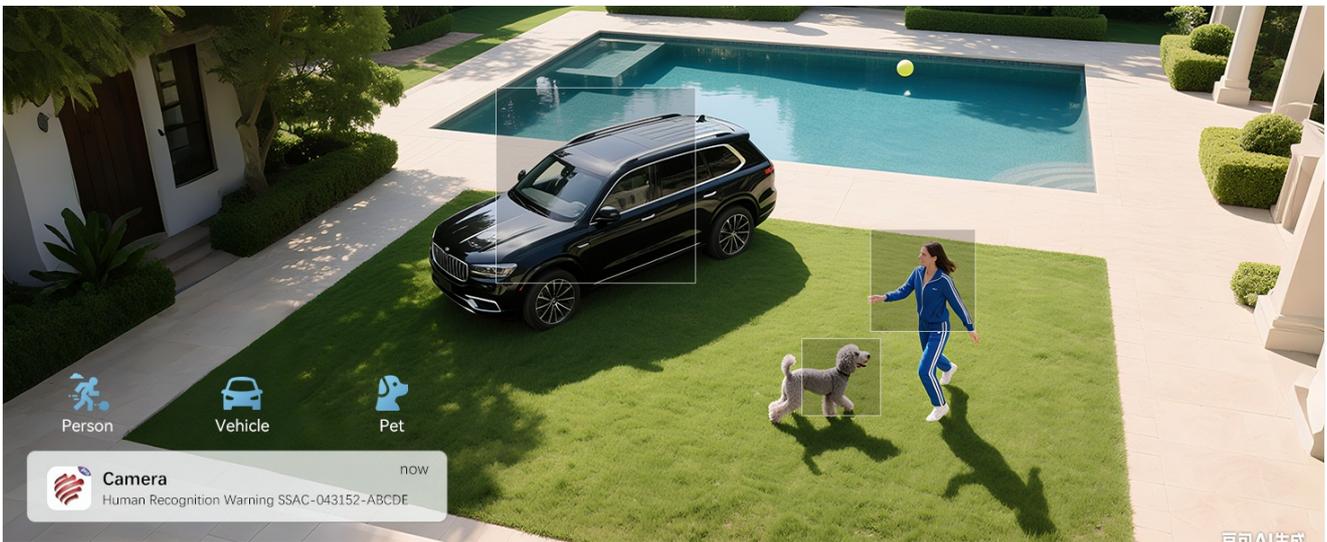
Figure 11: The Ctronics app interface showing two-way audio functionality.

5.6 Storage Options

Recordings can be stored locally on a Micro SD card (up to 256GB, not included) or via cloud storage (subscription required). Access recorded footage through the Ctronics APP.

6. MAINTENANCE

- **Cleaning:** Regularly clean the camera lens with a soft, dry cloth to ensure clear image quality. Do not use harsh chemicals.
- **Firmware Updates:** Check the Ctronics APP periodically for available firmware updates to ensure optimal performance and security.
- **Cable Inspection:** Periodically inspect all cable connections for wear or damage, especially the waterproof seals, to maintain weather resistance.

7. TROUBLESHOOTING

- **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 and ensure the camera is within range of your router. For 5GHz Wi-Fi, ensure your router supports it. If using Ethernet, check the cable connection.
- **Poor Image Quality:** Clean the camera lens. Ensure there are no obstructions in the camera's field of view. Check network bandwidth for streaming issues.
- **Motion Detection Not Working:** Check motion detection settings in the Ctronics APP. Ensure the detection area is correctly configured and sensitivity is appropriate.
- **Night Vision Issues:** Ensure there are no strong light sources directly facing the camera at night, which can interfere with IR illumination.

8. SPECIFICATIONS

Feature	Specification
Model Name	CTIPC-550C-Z30-4K
Effective Still Resolution	8 MP

Feature	Specification
Effective Video Resolution	3840 x 2160 (4K Ultra HD)
Optical Zoom	30x
Pan/Tilt Range	355° Pan, 90° Tilt
Night Vision Range	150 Meters (IR), 50 Meters (Color Starlight)
Connectivity Technology	Wireless (Wi-Fi 2.4G/5G)
Power Source	Corded Electric
Controller Type	Ctronics APP
Storage	Micro SD (up to 256GB), Cloud Storage
International Protection Rating	IP66
Material	Metal
Item Dimensions L x W x H	5.91 x 5.91 x 3.94 inches
Item Weight	4.42 pounds

9. WARRANTY AND SUPPORT

Ctronics products come with a standard manufacturer's warranty. For detailed warranty information, product support, or technical assistance, please visit the official Ctronics website or contact their customer service directly. Keep your purchase receipt for warranty claims.
Official Ctronics Website: www.ctronics.com