Ctronics CT-S20-5MP

Ctronics 5MP Solar Security Camera Outdoor
User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Ctronics 5MP Solar Security Camera. Please read this manual thoroughly before using the product to ensure proper setup and functionality. This camera is designed for outdoor surveillance, offering high-resolution video, efficient solar charging, and advanced detection features.

Image: The Ctronics 5MP Solar Security Camera, featuring a white dome camera unit connected to an adjustable solar panel, designed for outdoor installation.

2. WHAT'S IN THE BOX

Verify that all components are present in the package:

- Ctronics 5MP Solar Security Camera Unit
- Solar Panel (integrated or separate, depending on model variant)
- Charging Cable
- Mounting Screws and Wall Plugs
- Instruction Manual (this document)

3. PRODUCT SPECIFICATIONS

Feature	Detail
Model Name	CT-S20-5MP
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	5MP (2880x1620P)
Night Vision Range	Up to 25 meters (Full-Color Night Vision)
Power Source	6W Solar Panel, Corded Electric (for charging)
Connectivity	Wi-Fi (2.4GHz)
Controller Type	Ctronics APP
Mounting Type	Wall Mount
Detection	PIR Human Detection (0.2s response)
Storage Options	128GB TF Card (Max), Cloud Storage, FTP
International Protection Rating	IP66 (Weatherproof)
Dimensions (L x W x H)	3.94 x 3.94 x 5.91 inches
Item Weight	3.19 pounds
Operating Temperature	-20°C to 50°C

4. SETUP AND INSTALLATION

The Ctronics Solar Security Camera is designed for easy DIY installation. Follow these steps for optimal performance:

1. **Choose a Location:** Select an outdoor location with good Wi-Fi signal and direct sunlight exposure for the solar panel. Ensure the camera has a clear view of the area you wish to monitor.

2. **Mount the Camera:** Use the included mounting screws and wall plugs to securely attach the camera bracket to a wall or suitable surface. The camera supports wall mounting.

3. **Position the Solar Panel:** The 6W solar panel should be positioned to receive maximum sunlight throughout the day. It can be adjusted 360 degrees for optimal charging efficiency. For faster charging, an additional solar panel (sold separately) can be connected.

4. **Connect Power:** Connect the solar panel cable to the camera. Ensure the connection is secure and weatherproof.

5. **Initial Charge:** It is recommended to fully charge the camera's internal battery via the charging cable before the first use, especially if solar conditions are not ideal initially.

Dual Solar Panels for Maximum Energy Efficiency

This product includes one solar panel

Image: A Ctronics solar security camera mounted on an exterior wall, demonstrating typical installation.

Image: An illustration demonstrating the flexible installation options for the solar panel, allowing it to be mounted separately from the camera for optimal sun exposure.

Image: A visual representation of how two solar panels can be connected to the camera for maximum energy efficiency and faster charging. Note: This product includes one solar panel.

5. OPERATING INSTRUCTIONS

5.1 App Installation and Setup

To operate your Ctronics camera, download the "Ctronics APP" from your mobile device's app store (iOS/Android). Follow the in-app instructions to add your camera and complete the initial setup. The camera also supports PC access via the HiP2P Client.

View Multiple Cameras

Manage Groups

Playback Effortlessly

Ctronics Pro

HiP2P Client

iOS   Android   Windows

Image: A smartphone displaying the Ctronics app interface, showing options to view multiple cameras, manage groups, and access playback features.

Image: A visual representation of the Ctronics app and HiP2P Client interfaces, highlighting seamless access to camera feeds from mobile devices and PCs.

5.2 Live View and Playback

Once connected, you can access live video feeds from your camera anytime, anywhere via the Ctronics app or PC client. The app allows for easy playback of recorded footage.

5.3 Motion Detection and Alerts

The camera features advanced PIR human detection with a rapid 0.2-second response time. When motion is detected, you will receive real-time alerts on your connected device. The camera also includes a sound and light alarm to deter intruders, with customizable alert tones.

Image: An overhead view demonstrating the camera's accurate human and pet detection capabilities, minimizing false alerts.
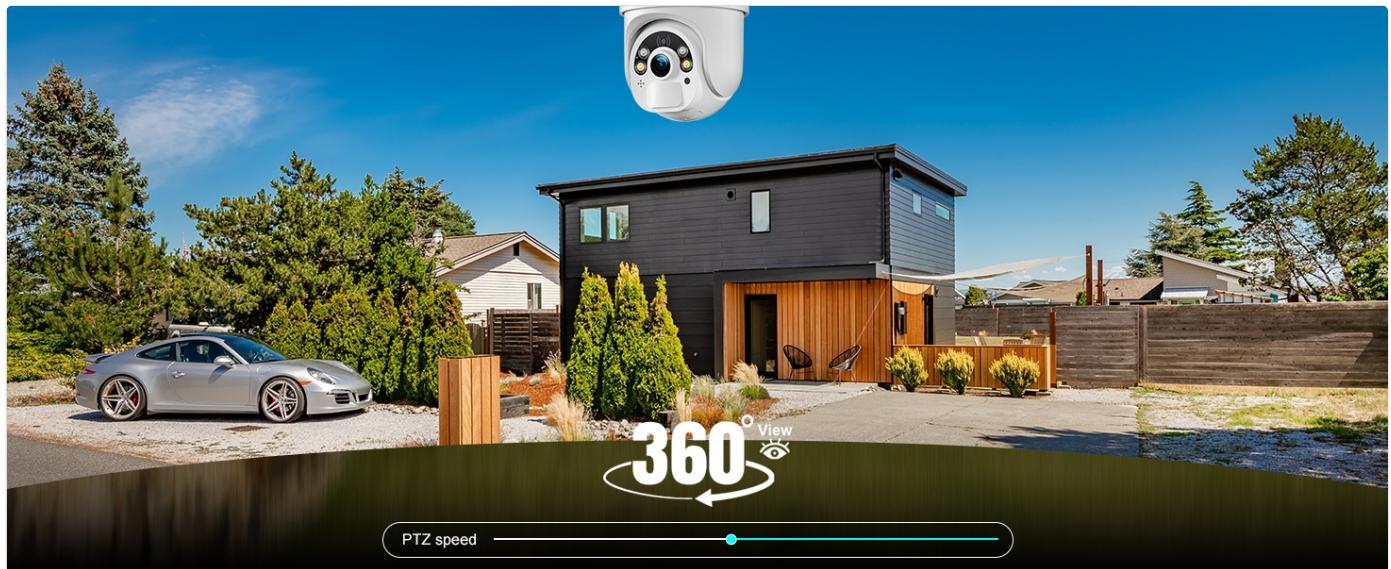
Image: A scenario depicting the camera's enhanced security features, including a sound and light alarm activating upon detection to deter potential intruders.

5.4 Night Vision

The camera provides full-color night vision up to 25 meters, ensuring clear and detailed images even in complete darkness (2880x1620P resolution).

Image: A visual comparison demonstrating the superior clarity of 5MP resolution, alongside examples of full-color night vision and traditional black and white night vision up to 30 meters.

5.5 PTZ Control

Utilize the Pan-Tilt-Zoom (PTZ) functionality through the app to remotely adjust the camera's viewing angle, providing 360-degree coverage of your property.
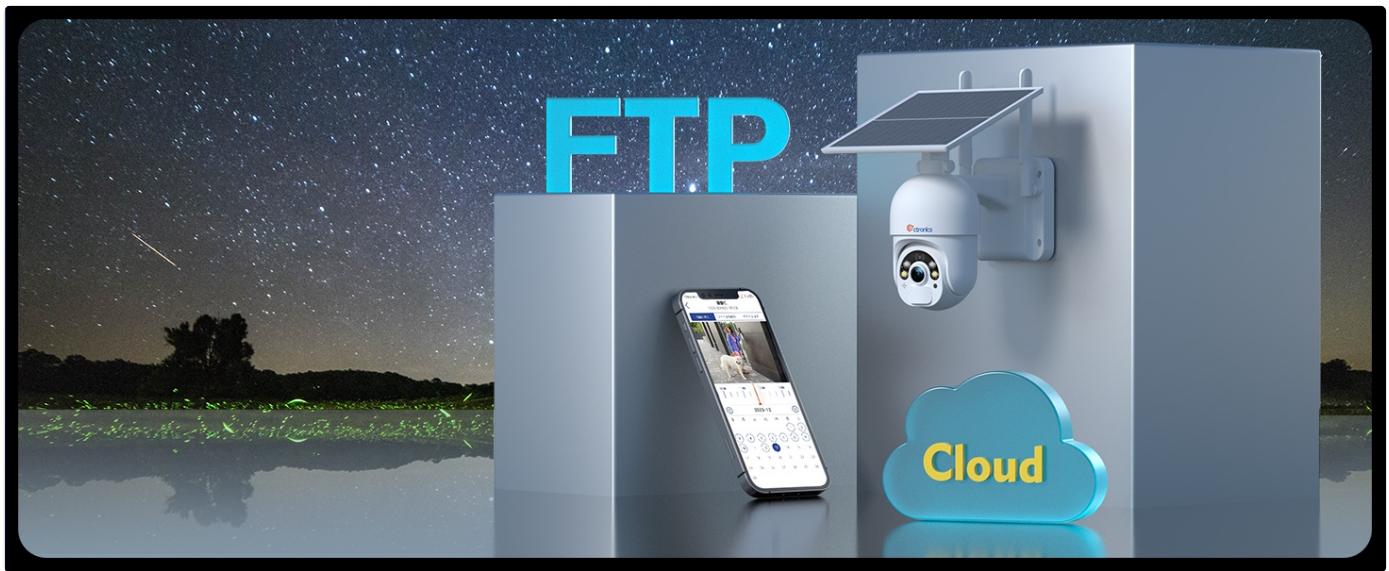
Image: A panoramic view illustrating the camera's 360-degree Pan-Tilt-Zoom (PTZ) capability, allowing comprehensive coverage of the surrounding area.

6. DATA STORAGE

Your Ctronics camera offers multiple secure storage options for recorded footage:

- **TF Card Storage:** Supports up to a 128GB Micro SD card (not included). Insert the card into the designated slot on the camera.
- **Cloud Storage:** Securely store your footage on the cloud. Subscription services may apply (check Ctronics app for details).
- **FTP Storage:** For advanced users, the camera supports File Transfer Protocol (FTP) for storing recordings on a remote server.

Image: An artistic depiction highlighting the flexible and secure data storage options available, including FTP and Cloud storage, accessible via the mobile app.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Ctronics Solar Security Camera, follow these maintenance guidelines:

- **Cleaning:** Periodically wipe the camera lens and solar panel with a soft, damp cloth to remove dust, dirt, or debris.

Avoid abrasive cleaners.

- **Solar Panel Efficiency:** Ensure the solar panel is free from obstructions (e.g., leaves, snow) that could block sunlight and reduce charging efficiency.
- **Weather Resistance:** The camera is IP66 rated, meaning it is protected against dust and powerful water jets. While designed for outdoor use, extreme weather conditions may temporarily affect performance.
- **Firmware Updates:** Check the Ctronics app regularly for available firmware updates to ensure your camera has the latest features and security enhancements.

Image: The Ctronics camera shown enduring rain, illustrating its IP66 weatherproof rating and ability to operate in various outdoor temperatures (-20°C to 50°C).

8. TROUBLESHOOTING

If you encounter issues with your Ctronics Solar Security Camera, refer to the following common problems and solutions:

- **Camera Not Connecting to Wi-Fi:**

  - Ensure your Wi-Fi network is 2.4GHz. The camera does not support 5GHz networks.
  - Check that the camera is within range of your Wi-Fi router.
  - Verify the Wi-Fi password entered in the app is correct.
  - Restart your router and the camera.

- **Battery Not Charging:**

  - Ensure the solar panel is positioned to receive direct sunlight for several hours daily.
  - Clean the solar panel surface to remove any dirt or obstructions.
  - Check the connection between the solar panel and the camera.
  - If solar charging is insufficient, charge the camera directly using the provided charging cable.

- **False Alarms or No Detection:**

  - Adjust the PIR detection sensitivity settings in the Ctronics app.
  - Ensure the camera's field of view is clear of moving objects like tree branches or reflective surfaces that could trigger false alarms.
  - Verify that human detection is enabled in the app settings.

- **Poor Video Quality:**

- Ensure the camera lens is clean.
- Check your Wi-Fi signal strength; a weak signal can affect streaming quality.
- Confirm the camera is set to its highest resolution (5MP) in the app settings.

For further assistance, please contact Ctronics customer support.

9. WARRANTY AND SUPPORT

Ctronics provides customer support for its products. For specific warranty information, including duration and terms, please refer to the warranty card included with your product or visit the official Ctronics website. You can typically find support resources, FAQs, and contact information on their website.

For direct support, visit the Ctronics Store on Amazon or their official brand website.

Related Documents

	Ctronics APP Precautions and CamHI App Connection Guide Important precautions for the Ctronics APP, including guidance on downloading the CamHI APP and connecting your camera via Wi-Fi or 4G networks. Learn how to connect your Ctronics camera.
	Ctronics CTIPC-285C Indoor Wi-Fi Camera User Manual User manual for the Ctronics CTIPC-285C indoor Wi-Fi camera, detailing its features, installation, and operation. This 4MP camera supports dual-band Wi-Fi, color night vision, 360° coverage, and human motion detection with tracking.
	Ctronics CT-S20-4G 3G/4G Solar PTZ Surveillance Camera User Manual User manual for the Ctronics CT-S20-4G, a 3G/4G solar-powered PTZ surveillance camera. Learn about product details, app installation, settings, and troubleshooting.
	Ctronics 4G LTE Outdoor Camera User Manual User manual for the Ctronics 4G LTE Outdoor Camera, featuring FHD 1080P PTZ, night vision, auto tracking, human detection, and two-way audio. This camera does not support Wi-Fi.