

SDTNOVA SDTNOVA 2X3MP Dual Lens PTZ WiFi Outdoor Security Camera

User Manual for SDTNOVA PTZ WiFi Outdoor Security Camera

Model: SDTNOVA 2X3MP Dual Lens PTZ WiFi Outdoor Security Camera

1. INTRODUCTION

Thank you for choosing the SDTNOVA PTZ WiFi Outdoor Security Camera. This camera is designed to provide comprehensive surveillance for your home or property with advanced features such as dual lenses for multiple views, AI human detection with auto-tracking, two-way audio communication, and versatile night vision modes. It is built to withstand outdoor conditions with an IP66 waterproof rating and connects wirelessly via 2.4GHz WiFi. This manual will guide you through the setup, operation, and maintenance of your new security camera.





A front view of the SDTNOVA PTZ WiFi Outdoor Security Camera, showcasing its dual lens design, integrated floodlights, infrared LEDs, and two external Wi-Fi antennas. The camera is white and black, designed for outdoor surveillance.

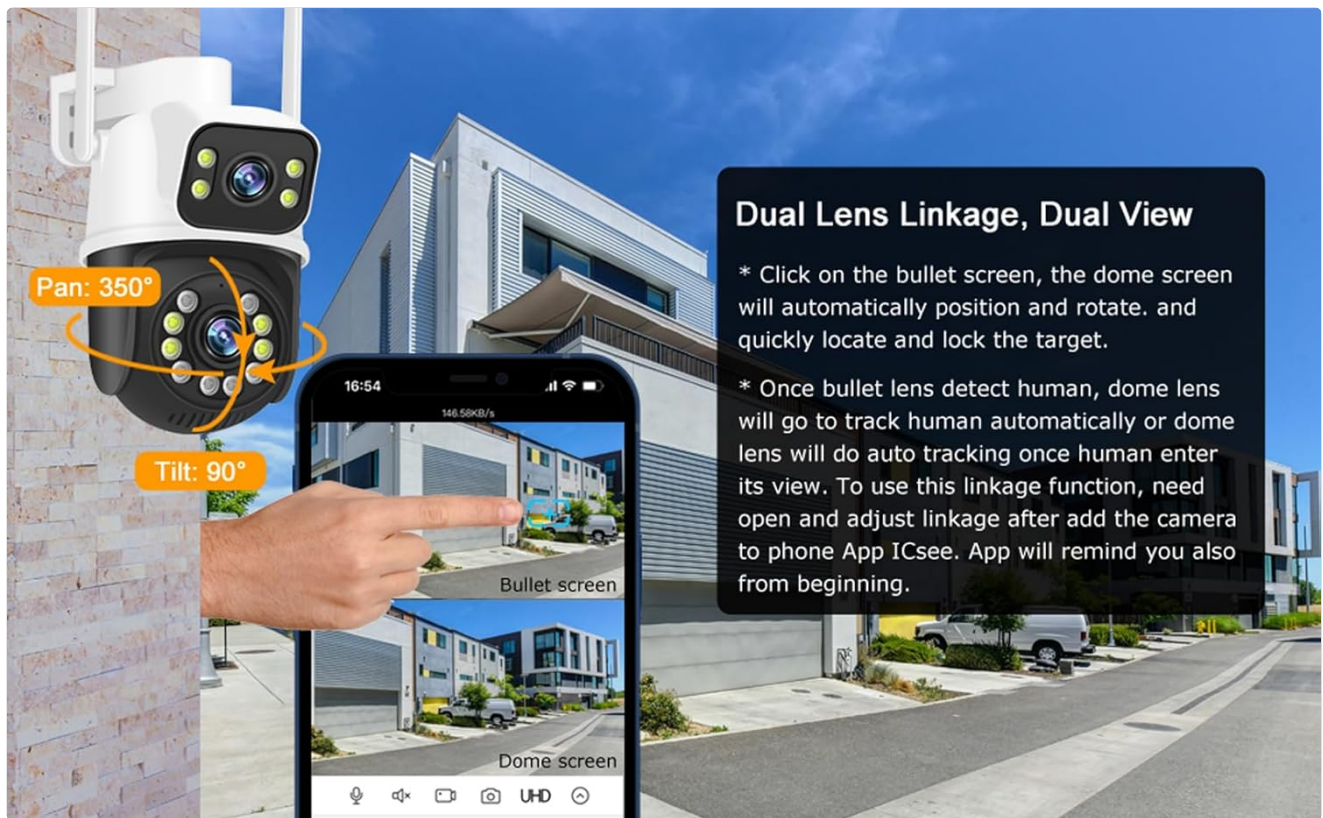
2. PRODUCT COMPONENTS

Before you begin, please ensure all components are present in the package. Familiarize yourself with the camera's parts for easier installation and operation.

2.1 Package Contents

- Dual-lens Camera x1
- User Manual x1
- Power Supply x1
- DC Extension Cable x1
- Screws Bag x1
- Waterproof Lid x1

2.2 Camera Parts Identification



This image provides a detailed breakdown of the SDTNOVA PTZ camera's physical dimensions, including its height and width. It also illustrates the various components of the camera such as the speaker, microphone, lenses, power port, network port, SD card slot, and reset button. Additionally, it lists the contents of the package: the dual-lens camera, user manual, power supply, DC extension cable, screws bag, and waterproof lid.

- **Speaker:** For two-way audio output.
- **Lens (Upper):** Fixed bullet camera lens.
- **Lens (Lower):** PTZ (Pan-Tilt-Zoom) dome camera lens.
- **Microphone:** For two-way audio input.
- **Array LEDs:** Infrared and white light LEDs for night vision.
- **SD Card Slot:** For local storage (supports up to 128GB).
- **Reset Button:** To reset the camera to factory settings.
- **Power Port:** For connecting the power supply.
- **Network Port:** For wired network connection (optional).

3. SETUP GUIDE

Follow these steps to set up your SDTNOVA security camera.

3.1 Pre-installation Checks

- Ensure your Wi-Fi network is **2.4GHz**. This camera does not support 5GHz Wi-Fi for connection. 2.4GHz offers better range and penetration for outdoor use.
- Have your Wi-Fi network name (SSID) and password ready.
- Choose a mounting location with a stable 2.4GHz Wi-Fi signal and access to a power outlet.

3.2 App Installation

1. Download the **ICsee** app from your smartphone's app store (App Store for iOS, Google Play Store for Android).
2. Register for an account and log in.

3.3 Powering On and Initial Connection

1. Connect the camera to the power supply using the provided cable. The camera will power on and initiate its self-test.
2. Open the ICsee app. Tap the "+" icon or "Add Device" to begin adding your camera.
3. Follow the in-app instructions to connect the camera to your 2.4GHz Wi-Fi network. This typically involves scanning a QR code displayed on your phone with the camera or using AP mode connection.



An illustration of the SDTNOVA PTZ camera accompanied by icons representing its core features: 6MP resolution (2x3MP), WiFi connectivity, two-way audio, AI human detection, infrared night vision, and IP66 waterproof rating. A smartphone screen displaying the ICsee app interface is also shown, indicating remote control capabilities.

3.4 Mounting the Camera

The camera is designed for wall mounting. Use the provided screws and waterproof lid for secure outdoor installation.

1. Mark the drilling points on the wall using the camera's base as a template.
2. Drill holes and insert wall plugs if necessary.
3. Secure the camera to the wall using the provided screws.
4. Ensure the camera is positioned to cover your desired surveillance area.

4. OPERATING INSTRUCTIONS

Learn how to utilize the various features of your SDTNOVA security camera.

4.1 Dual Lens Functionality and Multiple Views

The camera features two lenses: an upper fixed lens and a lower PTZ (Pan-Tilt-Zoom) lens. This allows for simultaneous monitoring of two different areas or a wide overview with detailed zoom capabilities.

Double Lens & Multiple Views

Configured with dual lenses, a fixed point monitoring, a tilt monitoring

Shot 1: Front door



Shot 2: Parking space



This image demonstrates the dual-lens capability of the camera, allowing for multiple simultaneous views. The upper lens provides a fixed view, such as a front door, while the lower PTZ lens can monitor a different area, like a parking space, offering comprehensive coverage without blind spots.

In the ICsee app, you will see both views displayed. You can interact with the PTZ lens to pan (355°), tilt (90°), and digitally zoom (up to 5X) to focus on specific details.

Smart Human Detection Alert

When the PTZ Camera detect motion, Led show up to scare thief
(Need to open the LED in the APP)



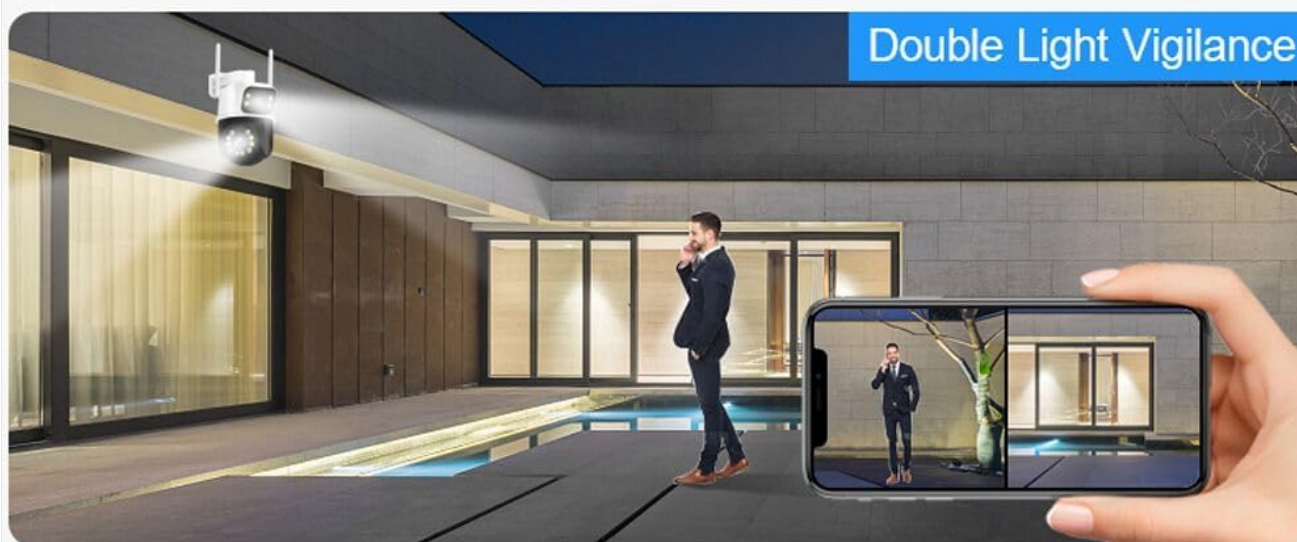
A smartphone displaying the iCSee app interface, illustrating the dual-lens linkage feature. The screen is split, showing a 'bullet screen' (fixed view) and a 'dome screen' (PTZ view). Users can tap on a point in the fixed view to quickly direct the PTZ camera to that location, enabling efficient monitoring and tracking.

4.2 AI Human Detection & Auto Tracking

The camera's built-in AI algorithm can accurately detect human motion, minimizing false alerts from environmental factors like leaves or insects. When a human is detected, the camera can automatically track their movement.

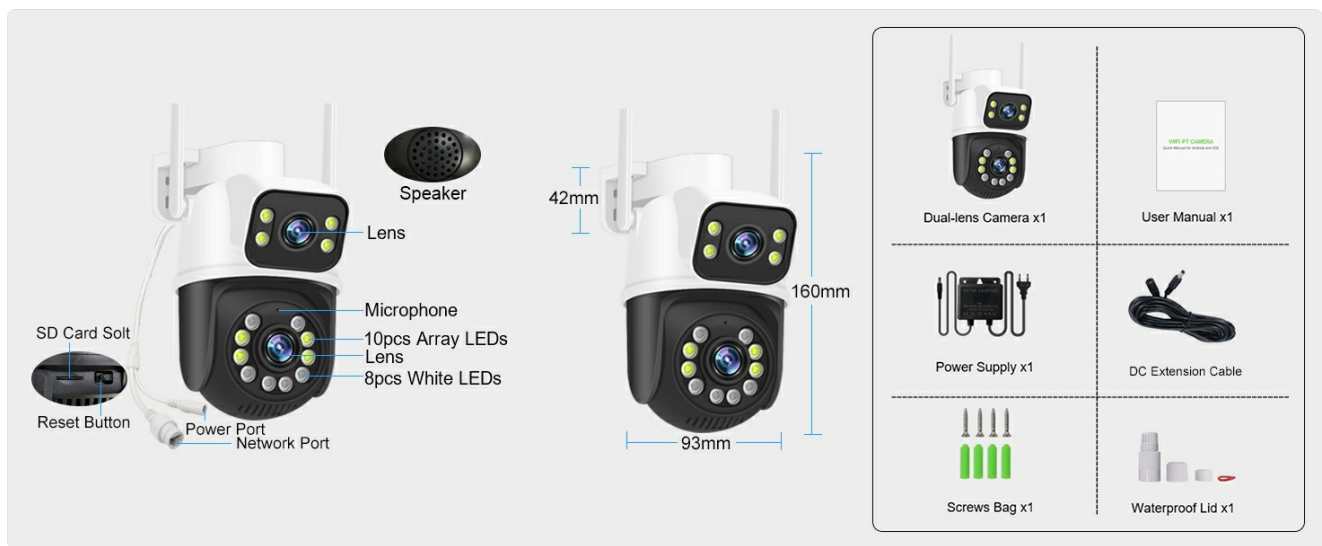
Smart Night Vision

Built-in 8pcs Infrared and 10pcs White dual-light led, still clara at night



This visual explains the camera's smart human detection feature. When a human figure is detected, the camera triggers an alert on the connected smartphone via the ICsee app, and its LED lights can illuminate to deter intruders. The image shows a person walking, with a red box indicating detection, and a notification appearing on a phone.

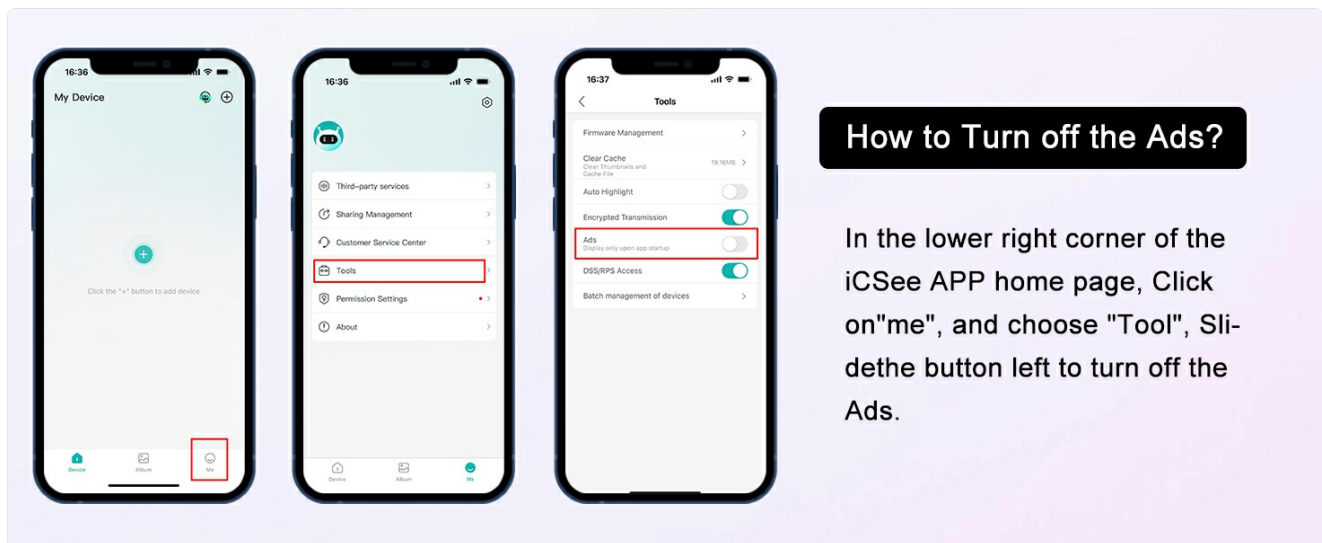
To enable auto-tracking, ensure the feature is activated in the ICsee app settings. The PTZ lens will follow the detected human until they move out of view, then return to its default monitoring position.



An overhead view demonstrating the camera's auto-tracking and preset point capabilities. The PTZ camera can automatically follow a detected human subject (indicated by a target icon) within its pan (355°) and tilt (90°) range. Users can also define specific 'Guard Points' or 'Preset Points' for the camera to monitor, ensuring critical areas are always covered.

4.3 Two-Way Audio

The integrated microphone and speaker allow for real-time two-way communication. You can speak through the camera from your smartphone and hear responses from the camera's location.



This image illustrates the two-way audio functionality, showing a user speaking into their phone and a delivery person at a door receiving the audio from the camera. This feature allows for real-time communication with visitors or deterrence of unwanted individuals.

4.4 Smart Night Vision

The camera offers multiple night vision modes to suit different needs, including full-color night vision and infrared night vision.



A visual comparison of the camera's smart night vision capabilities. It shows three modes: full-color night vision using white light LEDs for clear, illuminated images; infrared night vision for discreet black-and-white monitoring in complete darkness; and a 'Double Light Vigilance' mode that combines both for enhanced visibility and deterrence.

- **Full-Color Night Vision:** Utilizes built-in floodlights to provide clear, colored images even in very low light conditions.
- **Infrared Night Vision:** Uses infrared LEDs for discreet black-and-white monitoring in complete darkness.
- **Double Light Vigilance:** A mode that can combine both white light and infrared for optimal visibility and deterrence.

4.5 Recording and Storage

The camera supports both local storage via an SD card and cloud storage options.

- **SD Card Storage:** Insert a microSD card (up to 128GB, not included) into the designated slot for continuous 24/7 recording. Recordings can be easily played back from the ICsee app.
- **Cloud Storage:** The camera also supports encrypted secure cloud storage. This is an optional service that may require a subscription.

5. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your camera.

- **Cleaning the Lens:** Periodically wipe the camera lenses with a soft, clean cloth to remove dust, dirt, or water spots that may affect image clarity. Do not use harsh chemicals.
- **Checking Connections:** Ensure the power cable and any optional network cables are securely connected and free from damage.
- **Firmware Updates:** Check the ICsee app regularly for available firmware updates. Keeping your camera's firmware up-to-date ensures you have the latest features and security enhancements.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Camera frequently loses Wi-Fi connection.	Weak 2.4GHz Wi-Fi signal; interference; router issues.	Ensure camera is within strong 2.4GHz Wi-Fi range. Reduce interference from other devices. Restart your router.
Receiving too many false motion alerts.	Motion sensitivity too high; environmental factors (e.g., waving branches, insects).	Adjust motion detection sensitivity in the ICsee app. Ensure AI human detection is enabled to filter non-human motion.
No recording to SD card.	SD card not inserted correctly; card full or corrupted; recording settings disabled.	Reinsert or replace SD card. Format the SD card via the app. Check recording schedule/settings in the app.
Camera is advertised as "wireless" but requires a power cable.	"Wireless" refers to Wi-Fi network connectivity, not power.	This camera requires a continuous power supply via the included power cable. The wireless feature pertains to its network connection via Wi-Fi.
Cannot zoom in or out (only digital zoom available).	Camera supports digital zoom, not optical zoom.	The camera provides up to 5X digital zoom, which magnifies the existing image. It does not have optical zoom capabilities.
Ads appear in the ICsee app.	App monetization strategy.	To turn off ads: In the ICsee app, navigate to the 'Me' section (usually in the lower right corner), then select 'Tools'. Look for an 'ADS' option and toggle it off.

7. SPECIFICATIONS

Feature	Specification
Connectivity Protocol	Wi-Fi
Controller Type	Android, iOS (Smartphone)
Mounting Type	Wall Mount
Video Capture Resolution	6 MP (2x3MP)
Number of Channels	2 (Dual Lens)
Wireless Communication Technology	Wi-Fi (2.4GHz)
Wattage	24 watts
Alert Type	Motion Only (AI Human Detection)
Video Capture Format	MPEG-4

Feature	Specification
Effective Still Resolution	6 MP
International Protection Rating	IP66 (Waterproof)
Item Weight	1.52 pounds
Power Source	Corded Electric

8. WARRANTY & SUPPORT

For any quality issues, installation assistance, or connection problems, please contact our professional support team. We are committed to providing timely and efficient technical support and solutions.

Customer Support Email: support@starview-tech.com

Expect a quick response within 12 hours.