SDTNOVA SVN-25TY4S8

SDTNOVA 8MP 4K 25X Optical PTZ Security Camera User Manual

Model: SVN-25TY4S8

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your SDTNOVA 8MP 4K 25X Optical PTZ Security Camera. This advanced Power over Ethernet (PoE) IP camera is designed for outdoor surveillance, featuring 4K resolution, 25X optical zoom, auto-tracking, human and vehicle detection, two-way audio, and color night vision capabilities. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

2. Product Features

- **8MP 4K Ultra HD Resolution:** Captures video at 3840*2160@20fps for clear, detailed images.
- **25X Optical Zoom:** Equipped with a 5.3~130mm auto-iris motorized lens for 25X optical zoom without image quality degradation.
- **Auto Tracking & Human/Vehicle Detection:** Automatically tracks detected persons or vehicles within the video area. Detection zones and sensitivity are adjustable to minimize false alarms.
- **360° Pan & Tilt:** Offers 0° to 360° pan and -5° to 90° tilt for comprehensive area monitoring.
- **Floodlight Color Night View:** Provides clear color night vision up to 298 feet using high-performance infrared LED lights and floodlights.
- **Two-Way Audio:** Built-in microphone and speaker enable real-time communication.
- **PoE (Power over Ethernet):** Simplifies installation by providing power and data connection through a single Ethernet cable. Requires a 30W PoE port.
- **Advanced H.265 Coding:** Efficient coding technology saves bandwidth and storage space.
- **ONVIF Compatibility:** Works with various NVRs (e.g., Hikvision, Uniview, Lorex, Dahua) and third-party software like Blue Iris and iSpy.
- **IP66 Weatherproof:** Durable metal housing ensures reliable operation in various weather conditions.

3. Package Contents

Upon opening the package, verify that all items listed below are present and in good condition:

- SDTNOVA 8MP 4K 25X Optical PTZ Security Camera
- Mounting Bracket
- Power Adapter (for non-PoE setup)
- Ethernet Cable (short)
- Mounting Screws and Anchors
- User Manual / Quick Start Guide
- Waterproof Connector Kit



Image: SDTNOVA 8MP 4K PTZ PoE Outdoor Security Camera and its accessories.

4. Setup & Installation

4.1 Powering the Camera

The camera supports Power over Ethernet (PoE) for simplified installation. It requires a 30W PoE port from an NVR or PoE switch. Alternatively, it can be powered using the included 12V DC power adapter if PoE is not available.

4.2 Network Connection

Connect the camera to your network using an Ethernet cable. For PoE, connect the Ethernet cable from the camera directly to a PoE-enabled NVR or PoE switch. For non-PoE setups, connect the camera to a standard router/switch and use the power adapter.

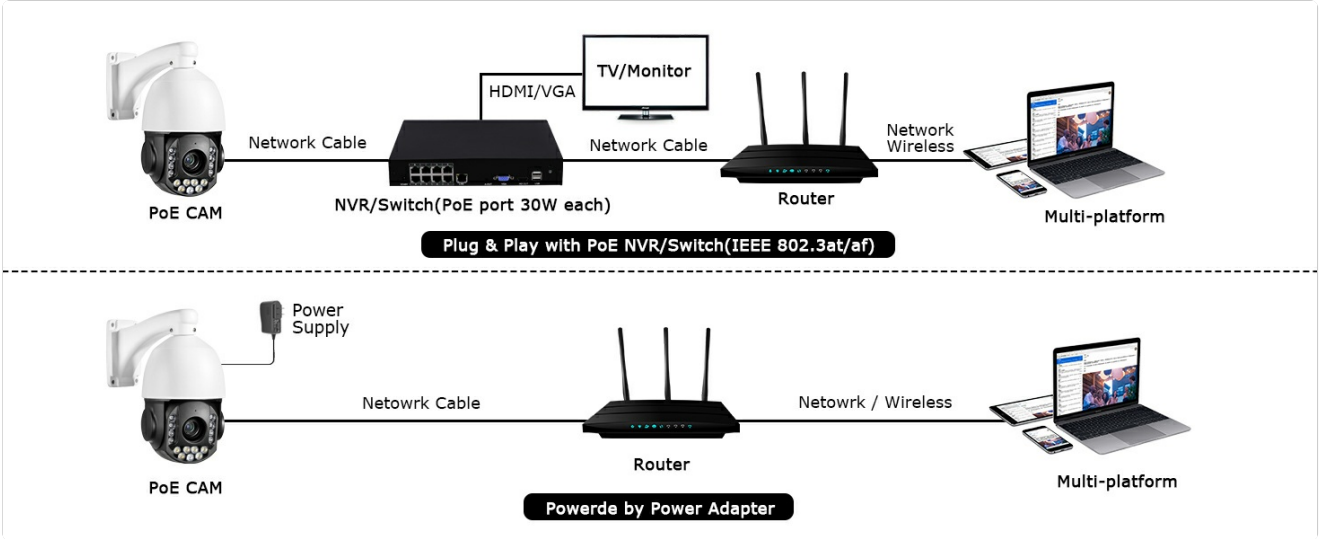


Image: PoE Network Connection Diagram.

4.3 Physical Installation

Use the provided mounting bracket, screws, and anchors to securely install the camera in your desired outdoor location. Ensure the camera has a clear field of view and is positioned to maximize its pan, tilt, and zoom capabilities.

4.4 Initial Configuration with NVR

If connecting to a Hikvision or Uniview NVR with DHCP enabled, the camera should plug & play. For other NVRs or if DHCP is not enabled, use client software to search for the camera's IP address and add it manually. Access the camera's web interface via a browser using its IP address for advanced settings. Note that some NVRs may not support full camera settings through their interface, requiring direct web browser access.

Video: Demonstrates connecting a 25X PTZ camera to an NVR using Onvif protocol.

5. Operation

5.1 Auto Tracking & Human/Vehicle Detection

The camera features intelligent auto-tracking that detects and follows human and vehicle movement. You can adjust detection areas and sensitivity to reduce false alarms. When a person or vehicle enters the monitored area, the camera will automatically track it and send real-time video or snapshots to your mobile phone.

- **Cruising Routes:** Support for 8 groups of cruising routes, each with up to 16 preset positions for cyclical monitoring.
- **Preset Functions:** Utilize strong preset functions, such as calling preset 105 to cancel tour mode. A full list of preset functions is available in the detailed manual on the provided USB sticker.



Image: Smart Person/Vehicle Detection in action.

Video: Demonstrates the auto-tracking function of a PTZ IP camera (note: video title indicates 5MP, product is 8MP).

5.2 Night Vision

The camera provides excellent night vision up to 298 feet. It utilizes high-performance infrared LED lights and floodlights to offer clear color night view even in low-light conditions.

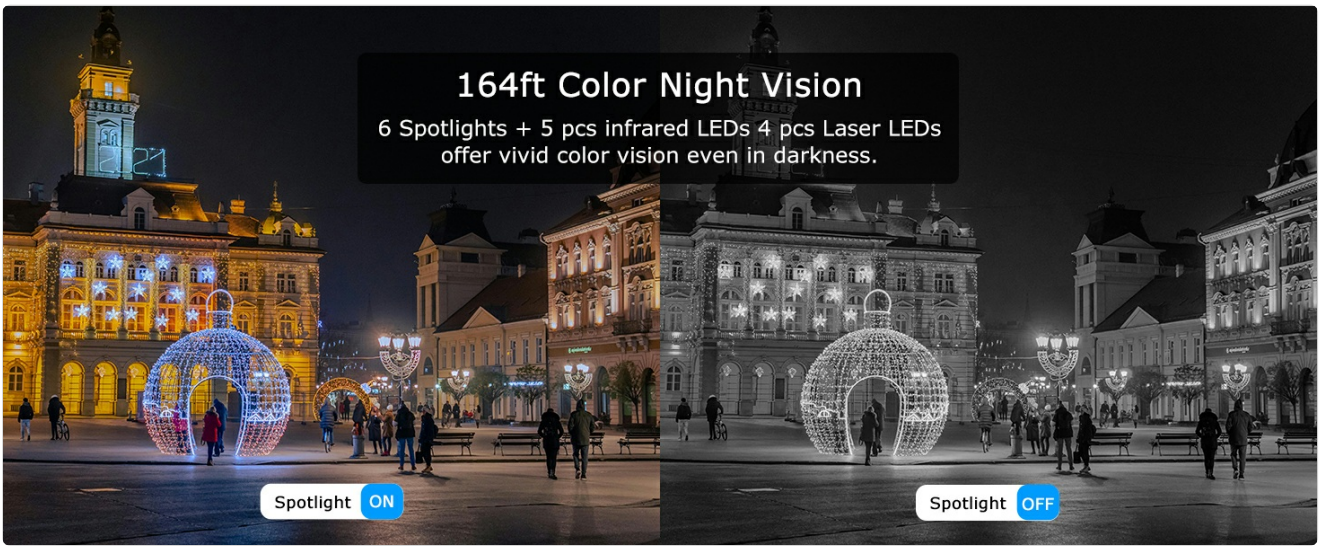


Image: Full Color Night Vision capability.

5.3 Two-Way Audio

With the integrated microphone and speakers, you can engage in real-time two-way conversations. This feature allows you to communicate with visitors or deter unwanted individuals through the mobile application.

6. Compatibility & Network Configuration

The SDTNOVA PTZ camera is built with ONVIF support, ensuring broad compatibility with various network video recorders (NVRs) and software. It is compatible with Hikvision, Uniview, Lorex, Dahua, Blue Iris, iSpy, and NAS storage systems.

- **NVR Integration:** For Hikvision/Uniview NVRs, plug & play is possible if the NVR IP address is DHCP. Otherwise, use client software to find the camera's IP address for manual addition.
- **Client Software/Web Browser:** For full camera settings and control, it is recommended to log in via a web

browser using the camera's IP address or use the dedicated Windows PC Client.

- **Mobile Access:** Remote access is available anytime and anywhere via the 'Seetong' Client & APP.
- **DVR Systems:** Please note that this camera is *not* compatible with DVR systems.



Image: Remote Access Anytime & Anywhere via Seetong APP & Software.

7. Maintenance

- **Cleaning:** Regularly clean the camera lens and housing with a soft, damp cloth to ensure optimal image clarity. Avoid abrasive cleaners.
- **Firmware Updates:** Check for and install firmware updates periodically to enhance performance, security, and add new features. Refer to the manufacturer's website or the Seetong app for updates.
- **Cable Inspection:** Periodically inspect all cables for any signs of wear, damage, or loose connections, especially in outdoor environments.
- **Environmental Protection:** While IP66 rated, ensure the camera is not exposed to extreme conditions beyond its operating limits.

8. Troubleshooting

8.1 No Video Feed / Camera Offline

- **Power Check:** Ensure the camera is receiving power. If using PoE, verify the PoE switch/NVR port is active and providing 30W. If using a power adapter, ensure it's correctly plugged in.
- **Network Connection:** Check the Ethernet cable connection at both ends. Ensure the network cable is not damaged.
- **IP Address:** Verify the camera's IP address. If connecting to an NVR, ensure the NVR can detect the camera's IP. You may need to use client software to scan for the camera's IP address if it's not automatically assigned.
- **NVR Compatibility:** Confirm your NVR is compatible with ONVIF. If using a Dahua or similar NVR, you might need to pre-configure the camera's settings via its web interface before connecting to the NVR.

8.2 Auto Tracking Issues

- **Detection Settings:** Adjust the detection area and sensitivity in the camera's settings (via web browser or client software) to optimize tracking performance and reduce false triggers.

- **3D Positioning:** Ensure '3D Positioning' is enabled in the PTZ Area Advanced functions via the Seetong Client/APP or camera website for humanoid tracking.

8.3 Jerky Camera Movement / Overshoot

- This can sometimes be a compatibility issue with certain NVRs. Try adjusting PTZ control settings within the camera's web interface directly rather than through the NVR.

8.4 Accessing Camera Settings

- For full access to camera settings, log in to the camera's web interface using its IP address in a web browser. Default login credentials are often 'admin' for username and '123456' for password (check your specific manual for confirmation).

9. Specifications

Feature	Detail
Brand	SDTNOVA
Model Number	SVN-25TY4S8
Resolution	8MP 4K (3840*2160@20fps)
Optical Zoom	25X (5.3-130mm)
Pan Range	0° to 360°
Tilt Range	-5° to 90°
Night Vision	Up to 298 feet (IR + Floodlight Color Night View)
Audio	Two-Way Audio (Built-in Mic & Speaker)
Power	PoE (30W per port) or DC 12V
Weatherproof Rating	IP66
Dimensions (L x W x H)	5.4 x 5.4 x 9.2 inches

10. Warranty & Support

For any after-sales services, technical assistance, or warranty inquiries, please contact SDTNOVA customer support. You can reach us via email at support@starview-tech.com. We aim to provide a quick response within 12 hours.