



Milesight Release Note For Network Camera

Firmware Version: 61.8.0.5-r1

Applicable Model: MS-Cxxxx-xxE

Release Date: 31th March 2025

1. Overview

Milesight offers a variety of sensor products designed to capture valuable data. By innovatively applying AI, 5G, and IoT technologies, Milesight brings significant impact to various applications. Milesight manufactures products with exceptional image quality, unparalleled flexibility, and reliability for the global market. Milesight is pleased to announce the release of the new firmware version 61.8.0.5 for Camera.

One key upgrade is the introduction of **Attribute Extraction**, a powerful new function that enables precise **object attributes recognition**. This feature enhances target identification and enables efficient event filtering, ensuring more accurate and intelligent surveillance.

Additionally, the new **Pixel Counter** tool simplifies camera installation to improve VCA event accuracy, while the **Zoom in and Draw** function enhances precision when defining detection area.

Furthermore, several optimizations have been made to achieve better image quality and overall visual performance.

Finally, several known bugs have been fixed.

2. Firmware Version Download

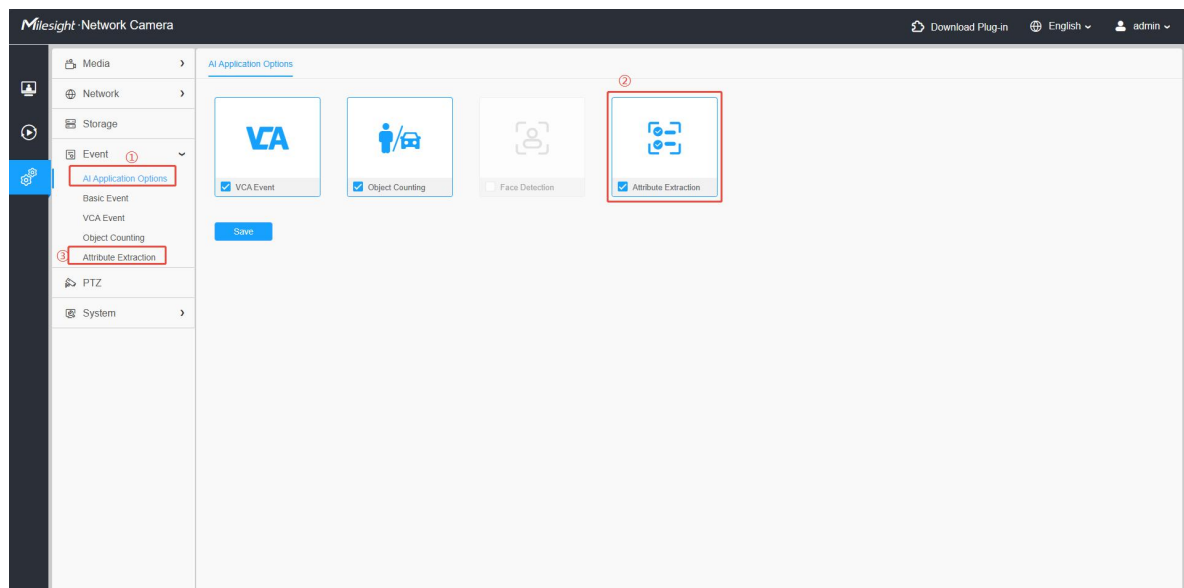
To download the latest firmware version, please click the following link:

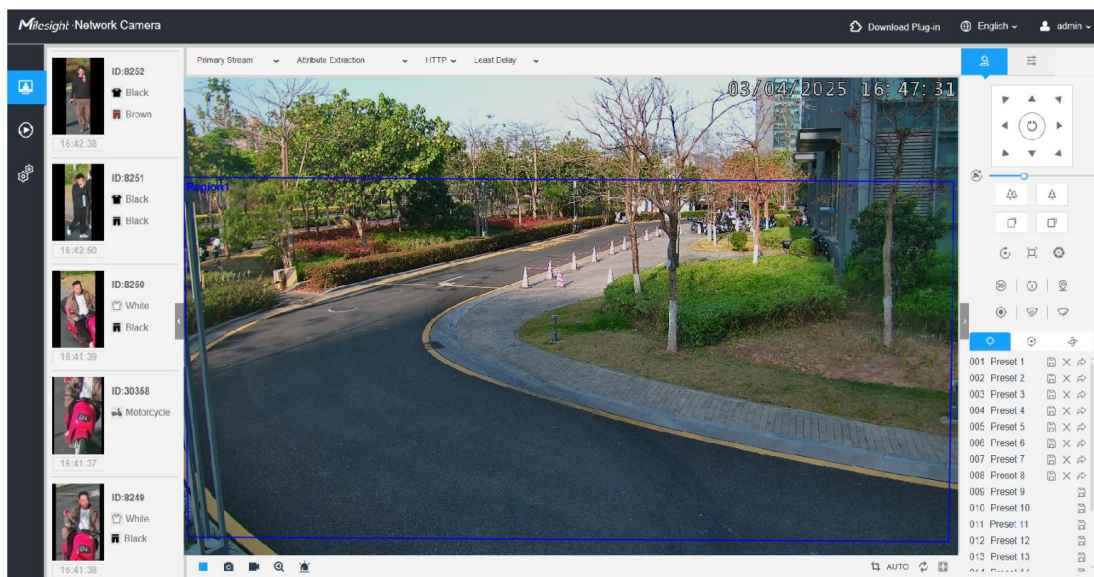
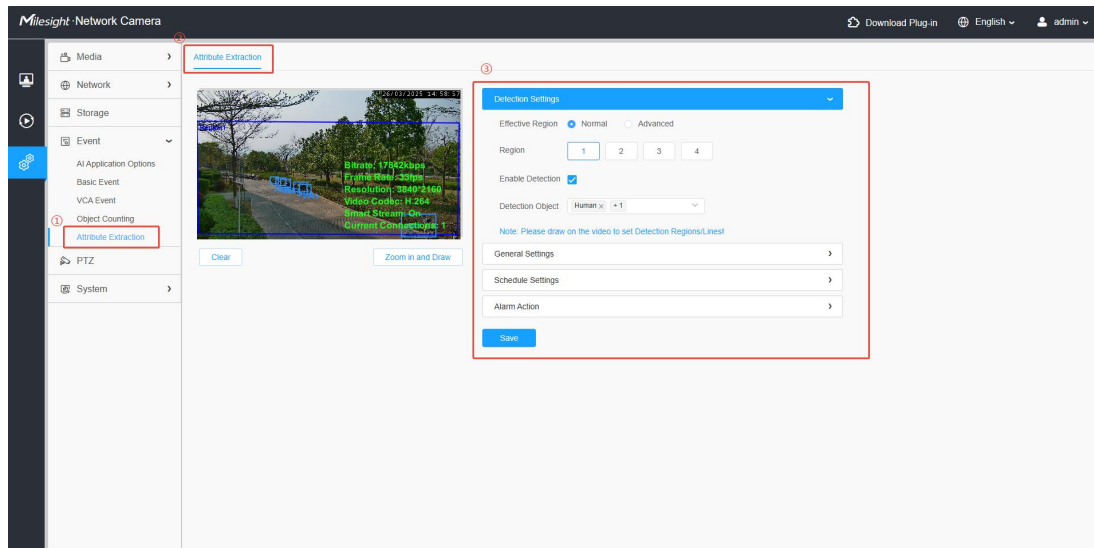
[Firmware Download|The Latest Innovation|Milesight](#)

3. What's new

3.1 New Features

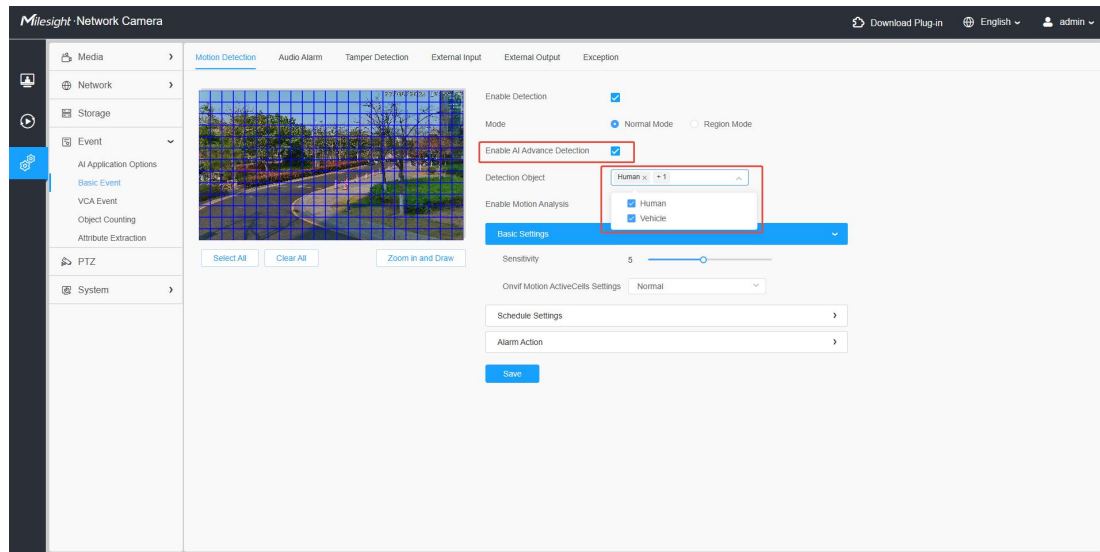
- 1) Added a new advanced AI function: **Attribute Extraction**, enabling the generation of metadata, which can be seamlessly integrated with the back-end system via ONVIF profile M.
- ❖ The camera is equipped with intelligent AI-powered Attribute Extraction, enabling precise differentiation between humans and vehicles in real-time. It analyzes multiple attributes, such as upper and lower clothing color, hat, vehicle type, and more, enhancing target identification to improve security efficiency in various surveillance scenarios.
 - ❖ Attribute Extraction makes it easier to locate specific person, and the data generated could be seamlessly transferred to the back-end system for the centralized management. For example, if a child goes missing in a shopping mall, security can quickly locate them by searching for attributes like clothing color or other distinguishing features.





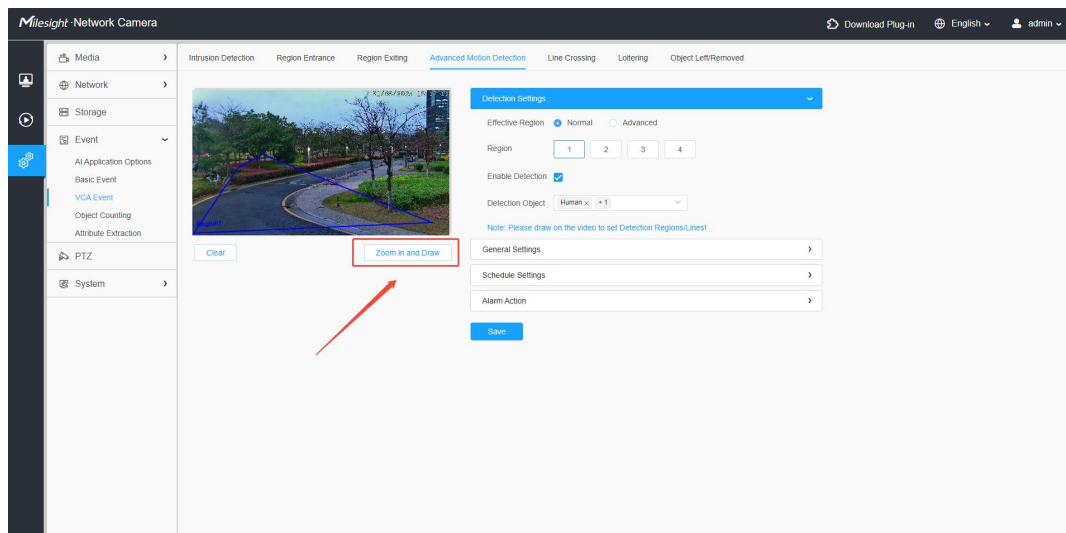
2) Added AI Advanced Detection to Basic Motion Detection.

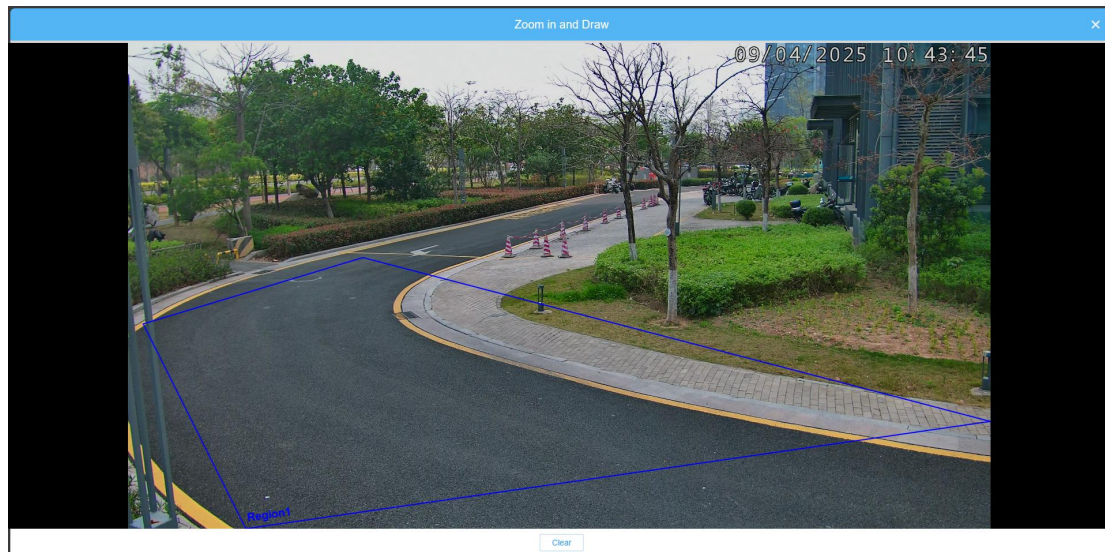
- ❖ This version introduces AI Advanced Detection to the Basic Motion Detection event. It supports detection based on human and vehicle targets, significantly reducing false alarms triggered by environmental movements such as insects, mosquitoes, dogs, cats, and other creatures.
- ❖ Additionally, it can be compatible with third-party systems only via ONVIF and Metadata, providing seamless integration.



3) Added Zoom in and Draw function to draw more accurate detection areas and improve adaptability in complex environments.

- ❖ Within the event configuration interface, the "Zoom In and Draw" feature allows you to activate a full-screen pop-up window that enlarges the live video for a clearer, more detailed view. This expanded display enables users to define detection areas with greater precision and enhanced accuracy.

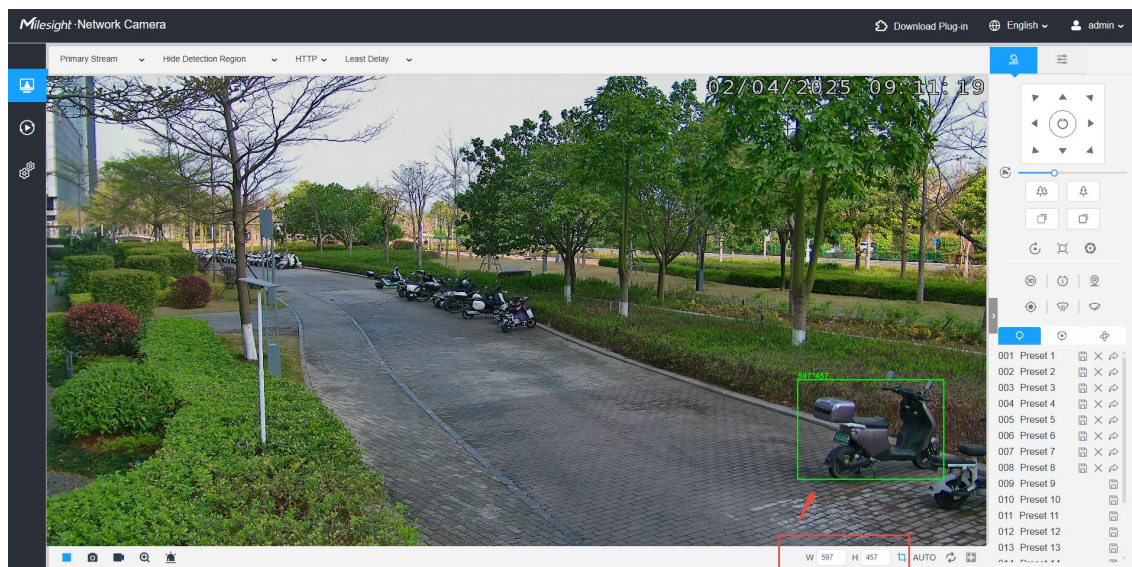




4) Added Pixel Counter function to calculate the pixels of the detection target.

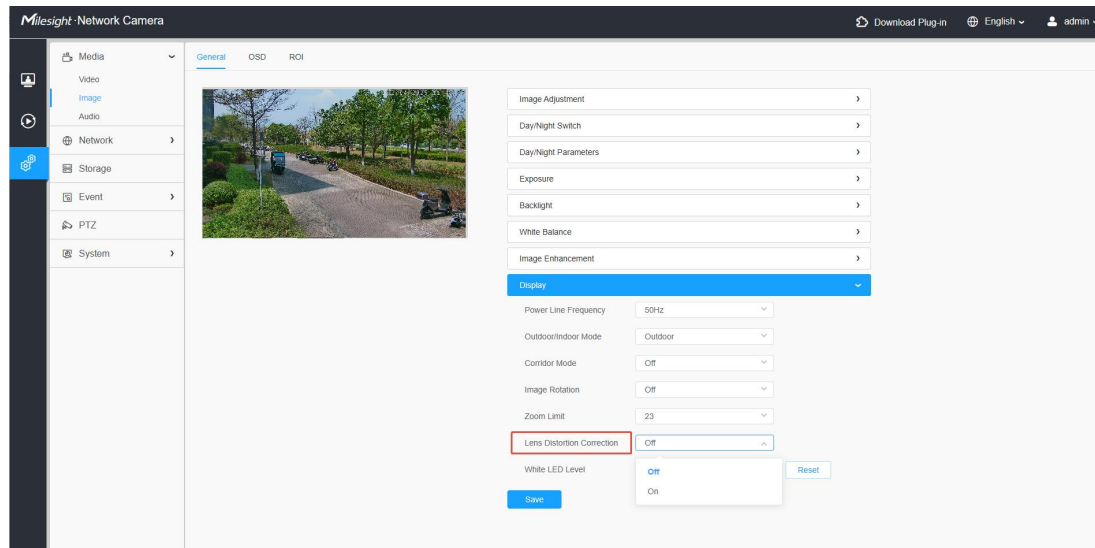
- ❖ Use this function to calculate the VCA detection target pixels, then refer to the recommended optimal height and angle for camera installation to ensuring optimal detection performance for VCA events.

Note: You can contact our support team for a reference document on installation height and angle.



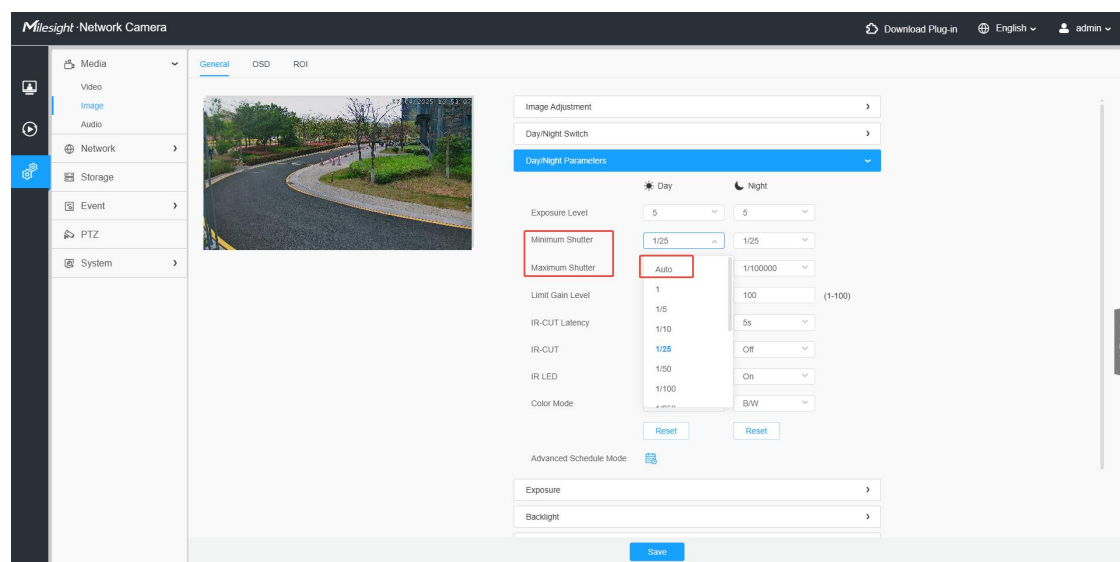
5) Added LDC function to reduce image distortion.

- ❖ This version introduces the LDC (Lens Distortion Correction) function, effectively reducing image distortion caused by wide-angle lenses for more accurate and natural visual representation.



6) Added automatic frame rate adjustment to achieve better image effect.

- ❖ Within the Day/Night Parameters settings, both Minimum Shutter and Maximum Shutter now support an Auto option. Enabling Auto means activating Frame Rate Reduction technology, which enhances static image quality in low-light environments by reducing frame rates, extending per-frame exposure time, increasing brightness, and minimizing noise.

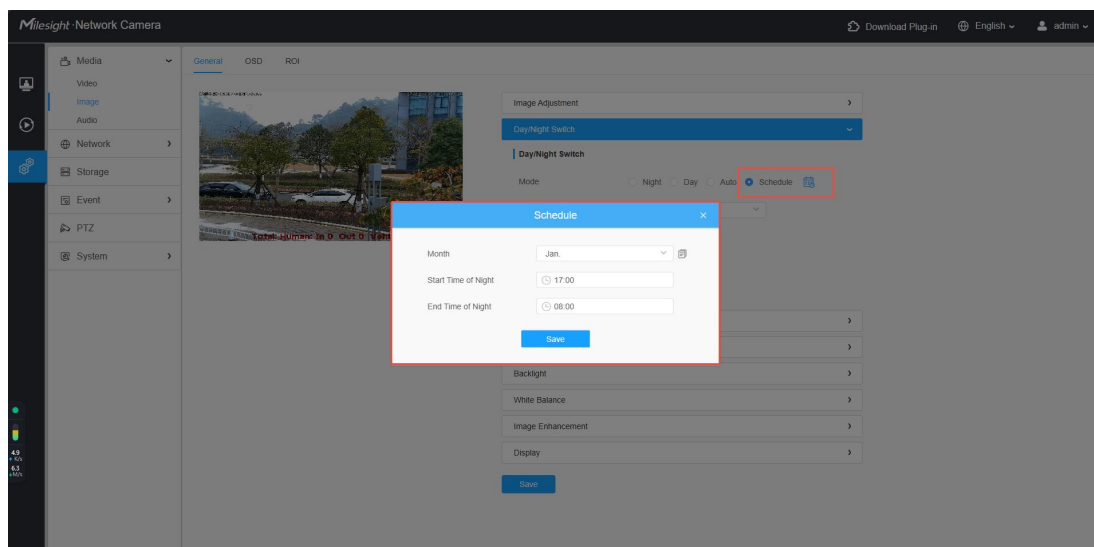
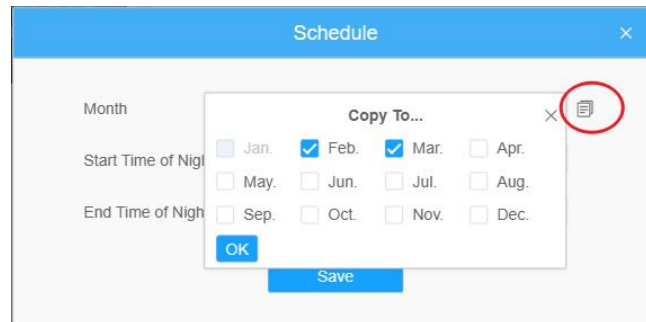


7) Supported day/night mode switching based on the month.

- ❖ Due to daylight saving time, the sunrise and sunset times vary throughout the year. And in certain environments with abundant night lighting, traditional light-based day/night switching may not work effectively.

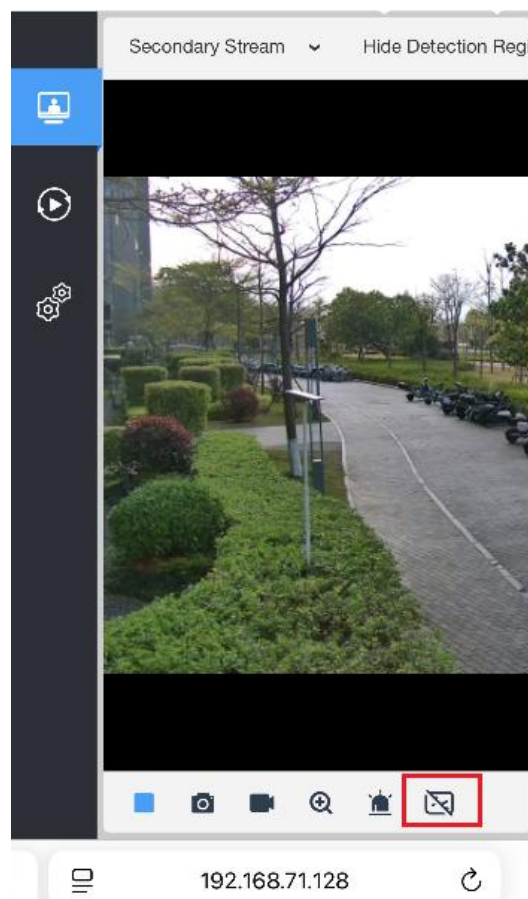
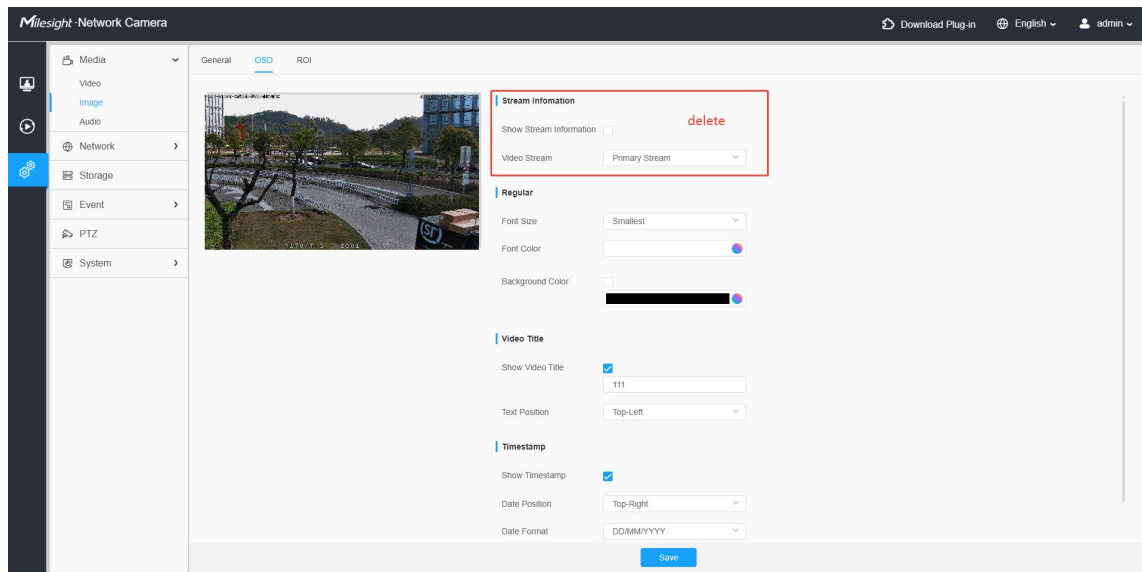
Therefore, the camera requires a more flexible mechanism to switch between day and night modes.

- ❖ In this version, the original **Customize** setting has been replaced with **Schedule**. Through **Schedule** settings, you can set the day/night switching times for each month and copy the switching times from one month to another.



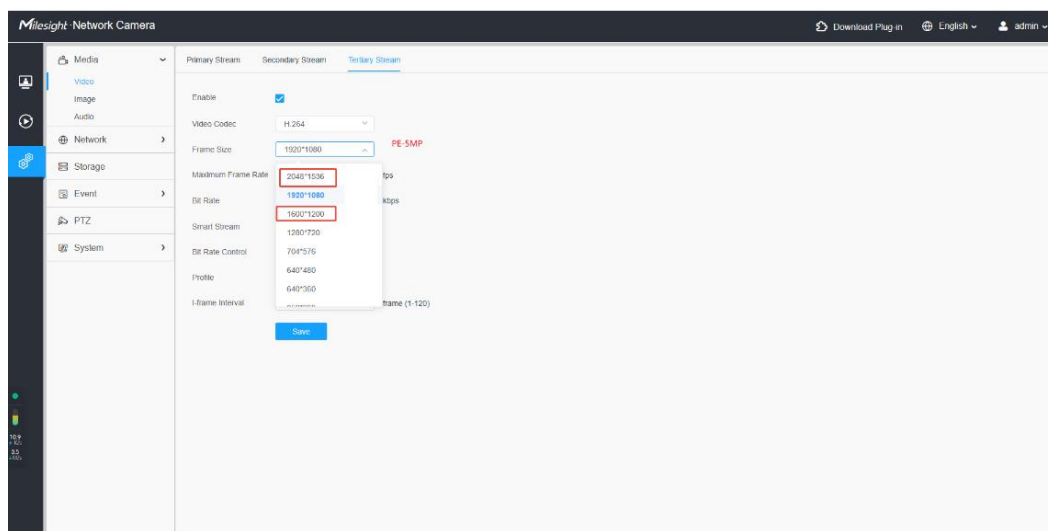
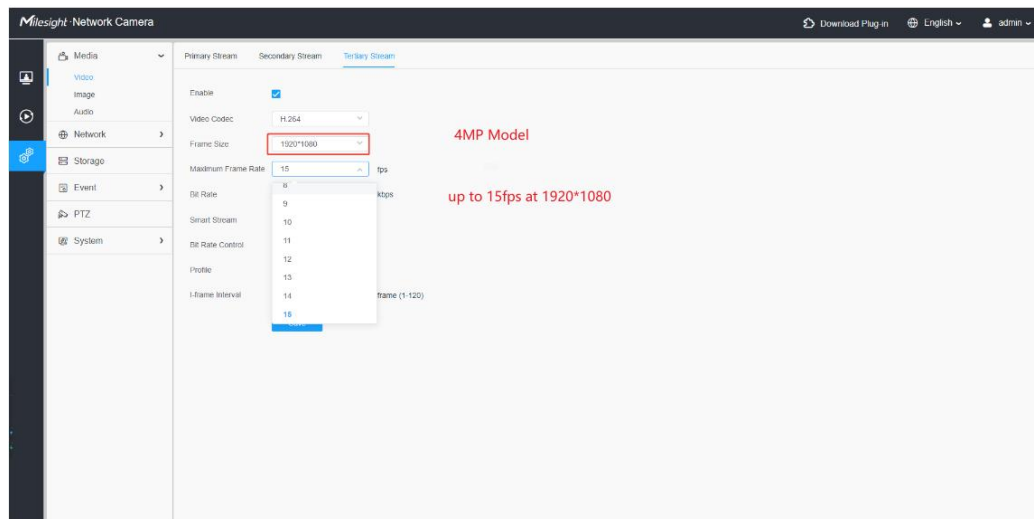
8) Added a stream enable component to the mobile web interface.

- ❖ A new **Stream Enable** component has been introduced to the mobile web interface, enabling users to efficiently configure and manage stream settings on mobile devices.
- ❖ To enhance interface simplicity and user experience, the **Stream Information** option has been removed from the OSD section.



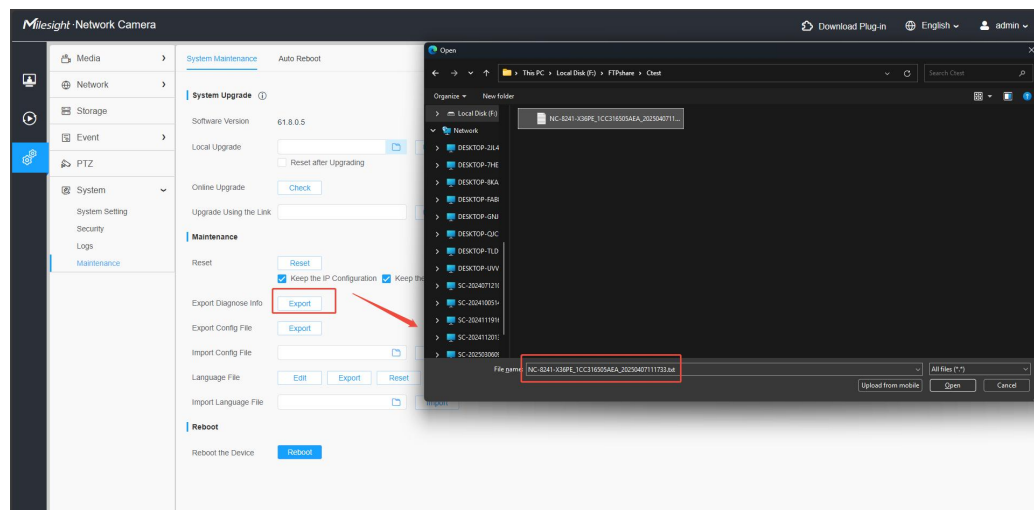
9) Added New Resolutions for Tertiary Stream in 4MP and 5MP Models.

- ❖ 4MP models now support **1920×1080** resolution at **up to 15fps** in the Tertiary Stream.
- ❖ 5MP models now support **2048×1536** and **1600×1200** resolutions in the Tertiary Stream.



10) Supported exporting diagnose information for neutral and OEM device.

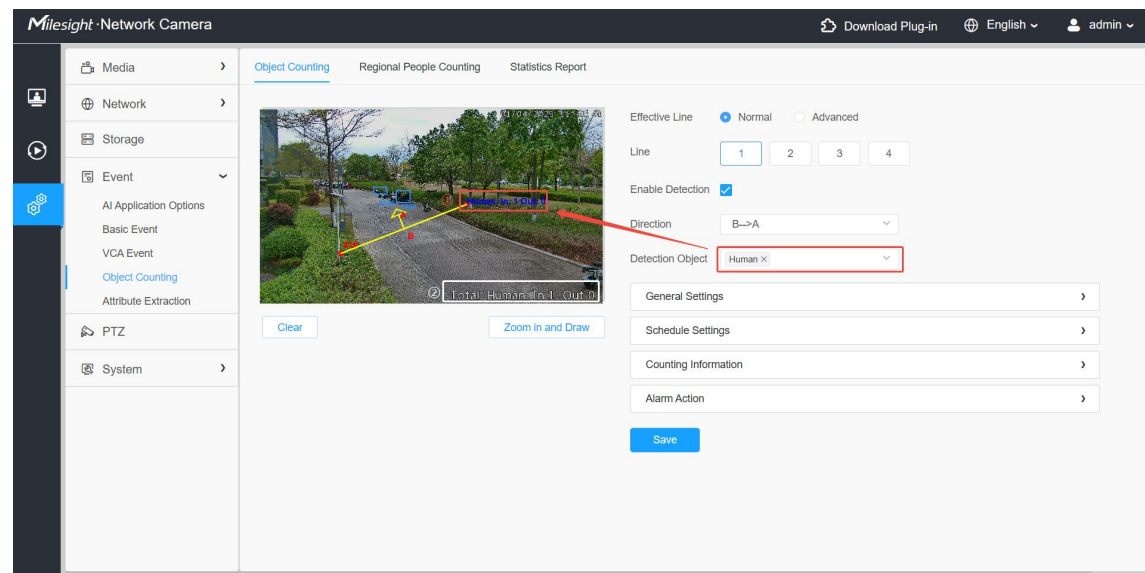
- ❖ For neutral and OEM devices, diagnostic logs can be exported without any "Milesight" information. This allows engineers to efficiently identify issues while maintaining brand neutrality.



3.2 Optimizations

(1) Optimized OSD displaying logic to show the counting information better.

- ❖ When the detection object is set to Human or Vehicle only, the **Line OSD** will display Human or Vehicle to accordingly indicate the counting of these objects, Otherwise, this data will not be shown.
- ❖ To hide the Human or Vehicle count in the **Total OSD**, you must deselect the corresponding detection object in all four regions. If at least one region has Human or Vehicle detection enabled, the **Total OSD** will continue to display the respective count.



(2) Optimize password security measures.

- ❖ Added a password strength indicator to provide real-time feedback on password robustness.
- ❖ Enforced strong password requirements: Passwords must be 8-64 characters long and include at least one uppercase letter, one lowercase letter, one number, and one special character, ensuring a higher level of security.

The image shows three sequential screenshots of the 'Activation' form. Each form has fields for 'User' (admin), 'Password', and 'Confirm'. The password strength indicator (a bar with red, yellow, and green segments) shows the progression: Weak (red), Medium (yellow), and then a stronger level (green). Each form has a 'Next' button at the bottom.

(3) Optimized and refined user permission management.

- ❖ Optimized to a modular permission management, categorizing similar settings into unified groups for better clarity and organization, providing a clearer structure for access control.
- ❖ Introduced predefined roles, including Operator and Viewer, enabling more precise and flexible access control based on user responsibilities.

The image compares two versions of the 'Edit' user privilege interface. The 'Before' version (right) shows a flat list of permissions. The 'After' version (left) shows a modular structure with categories like 'Parameters Settings', 'Maintenance', and 'Event'. Red arrows highlight the organizational changes between the two versions.

This screenshot shows the 'Milesight Network Camera' web interface. The 'Edit' user privilege window is open, showing a list of permissions under the 'User Privilege' section. The 'Parameters Settings' group is highlighted with a red box, showing sub-items like 'Live Video', 'Playback', 'Event', 'Basic Event', 'AI Application', 'PTZ Control', 'Logs', 'System', 'RTSP Access', and 'Search&Explorer'.

(4) Optimized the AI post field and standardized data interfaces

- ❖ This version optimizes the AI Post fields, adding SN, MAC address and confidence to identify the device and improve the effect of the data process on the back-end system. Additionally, the AI analysis interface and data formats have been standardized, ensuring data consistency between camera and back-end system.

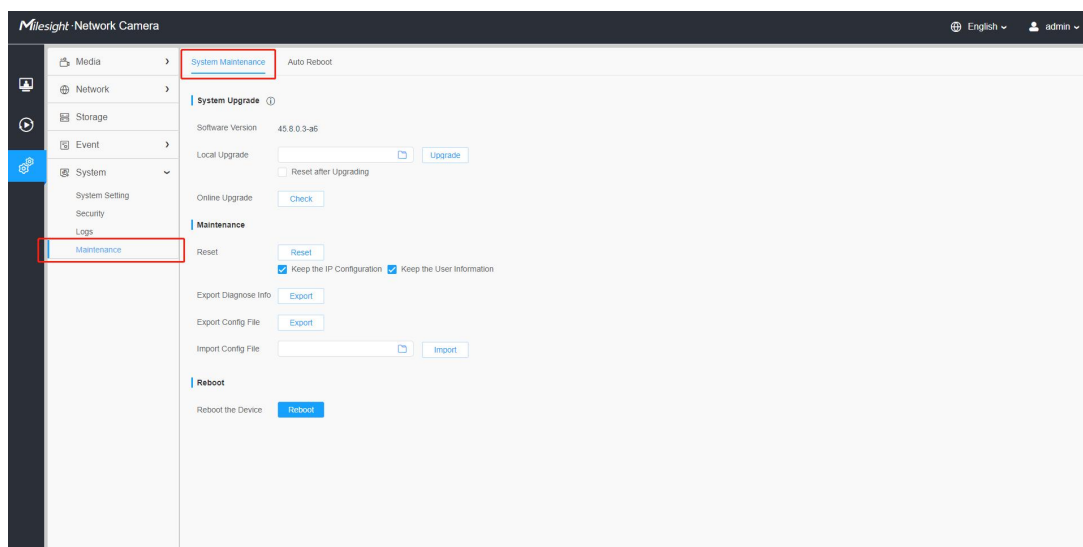
3.3 Bug Fixed

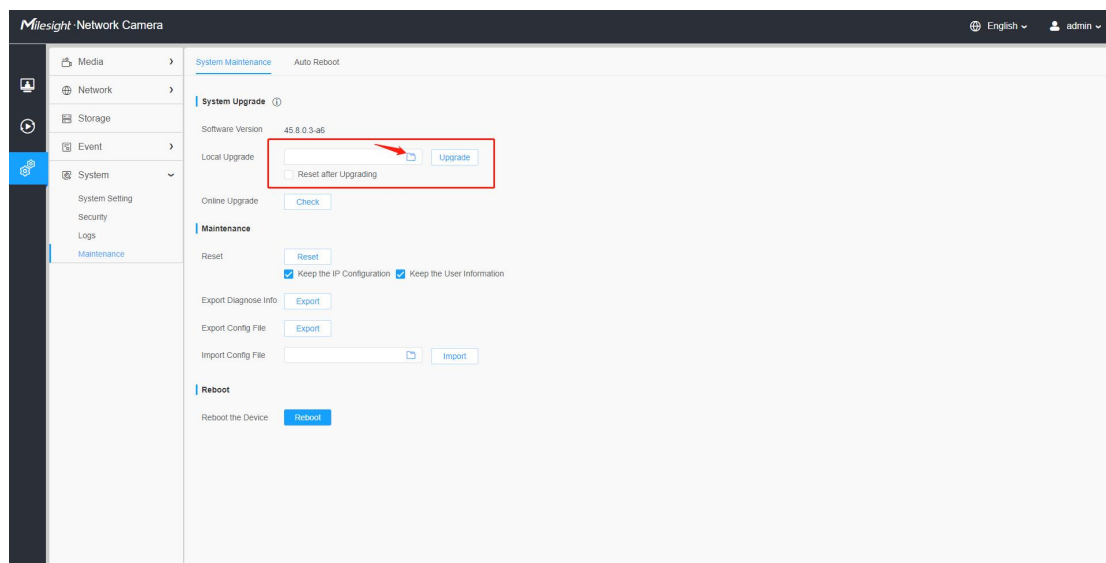
- (1) Fixed the camera's VPN disconnection issue.
- (2) Fixed the issue that the system page is displayed abnormally when a non-admin user logs in.
- (3) Fixed closed-loop compatibility issue that NVR cannot query Object Counting statistics.
- (4) Fixed issue with third party compatibility.
- (5) Fixed known bugs.

4. Upgrade steps

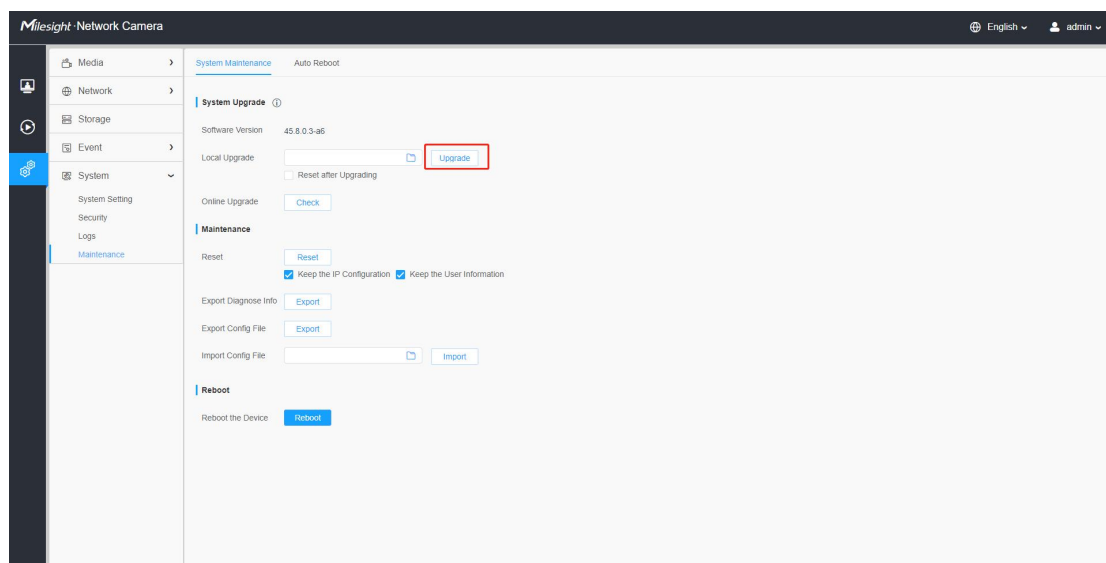
Please check each model with the right firmware version as mentioned above, then upgrade as the following steps:

Step 1: Go to the web page of Network Camera, Settings -> System -> Maintenance -> System Maintenance.



Step 2: Choose file for the upgrade.

Step 3: Click the "Upgrade" button, then please wait about 1~3 minutes. The upgrade will be done after the system reboots successfully.



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