



Milesight Release Note For Intelligent Traffic Camera

Firmware Version: 61.8.0.3-r9

Applicable Model: MS-Cxxxx-xLxE / TSxxxx-xxxE

Release Date: 22th November , 2023

1. Overview

Milesight, the best-in-class AIoT surveillance solution provider that manufactures products with superior image quality, exceptional flexibility and reliability for the global market, is pleased to announce the release of the new firmware version 61.8.0.3-r9 of the Milesight Intelligent Traffic Camera.

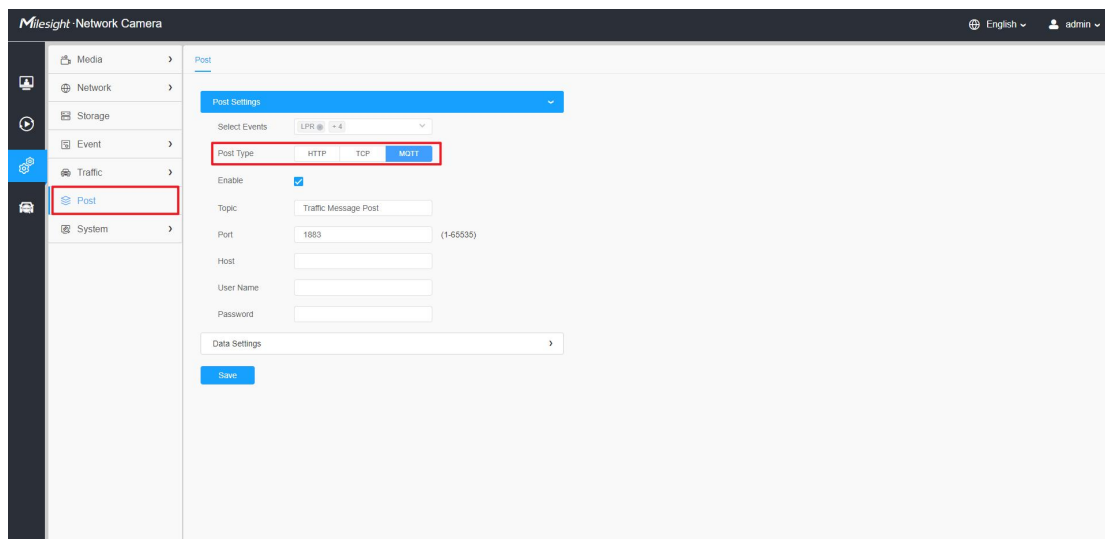
In this version, Milesight Intelligent Traffic Camera has implemented several valuable new features. These include **the integration of the Post module** for convenient third-party push configuration and compatibility, the addition of **support for MQTT post type**, and the introduction of **LPR Training Plans**. Furthermore, multiple functionalities have been optimized. For example, the radar model camera now allows **configurable speed thresholds for different regions**. The LPR Detection Trigger method, **Alarm Input, can be triggered by different interfaces** to initiate LPR detection, and various mechanisms have been enhanced to improve flexibility, usability, and overall efficiency. Adjustments and improvements have been made to the algorithm to enhance its accuracy and recognition stability. This version also includes optimized algorithms for several countries.

2. What's new

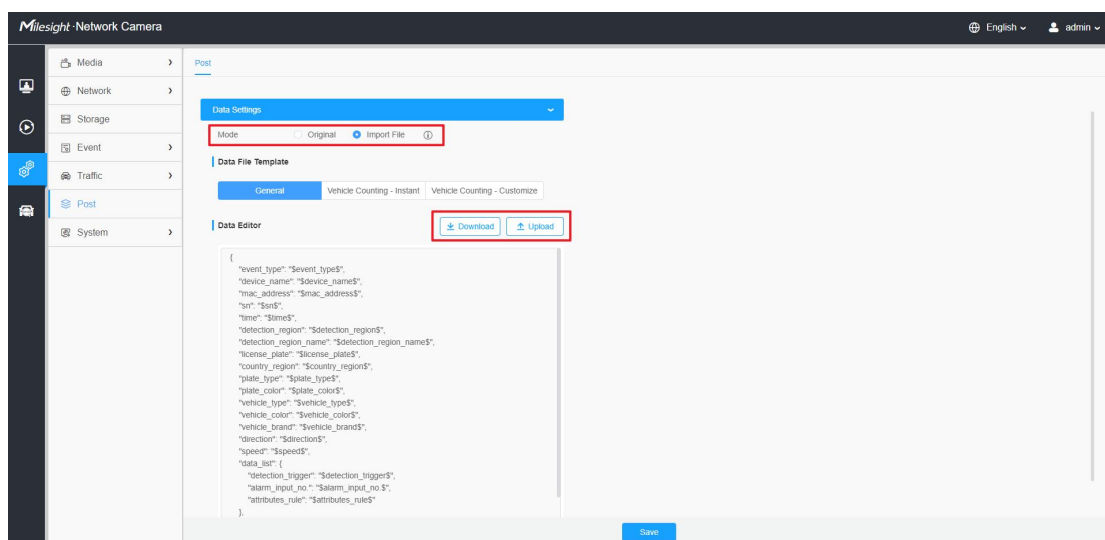
2.1 New Features

- 1) New Post module with unified configuration

- ❖ The newly **integrated Post module** simplifies push configuration, allowing unified configuration of Post addresses for each event. Additionally, in this version, the **MQTT Post Type** has been added, expanding the available choices for Post Types to include HTTP, TCP, and MQTT.



- ❖ New support for open configuration template file upload, you can use Data Editor to customize the fixed fields you need, and you can customize the field names to match different back-end settings, which is flexible and compatible with third-party Post in different formats, saves the workload of compatibility development, and provides a smooth push experience.



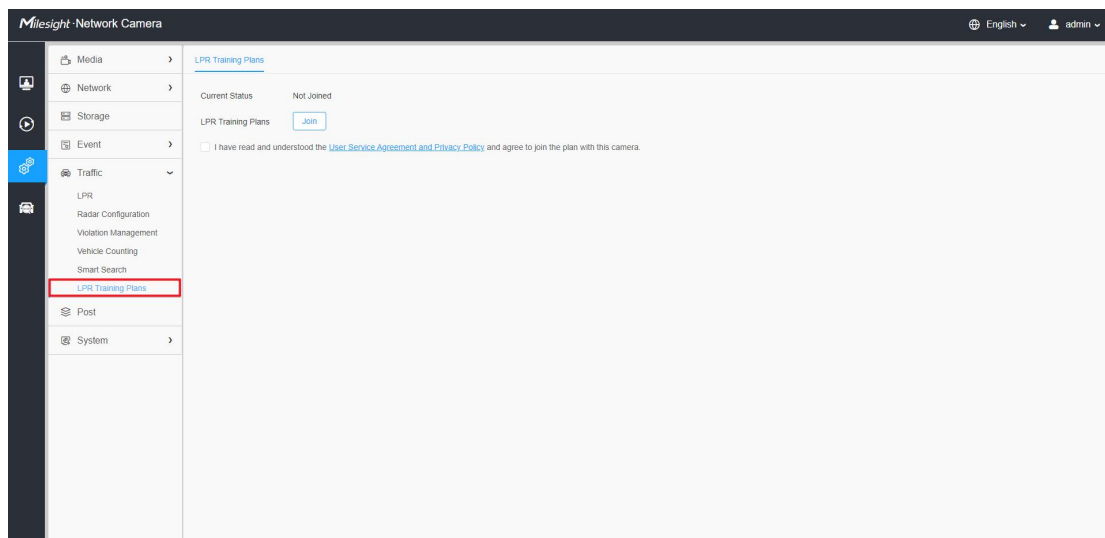
2) New LPR Training Plans

- ❖ Adding training sample recruitment module. If you would like to help us optimize the license plate recognition algorithm, we welcome you to join the LPR Training Plans through the following link:

<http://IP/#/transmitRouter?type=1>

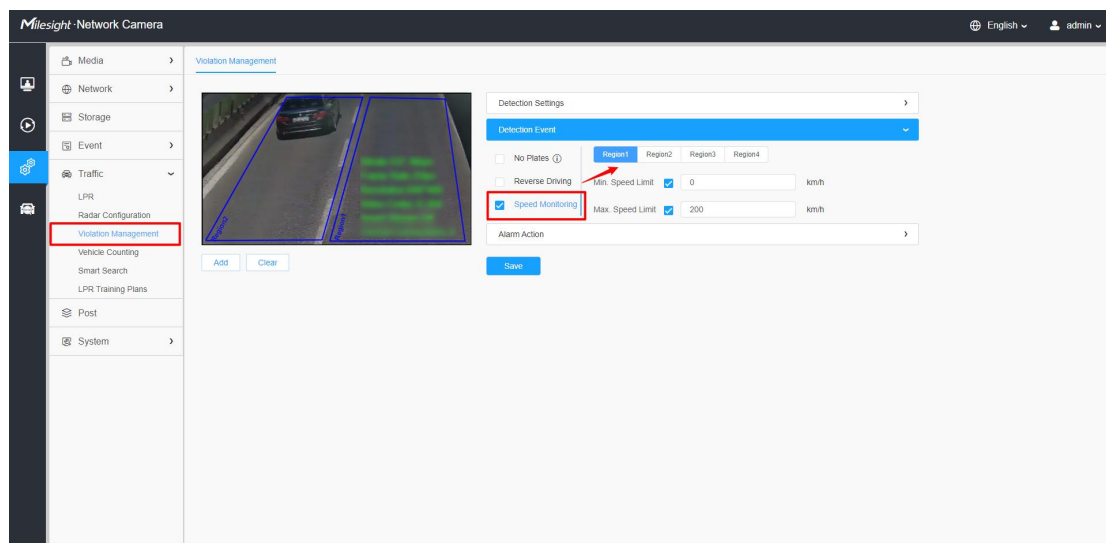
Please replace "IP" in the link with the IP address of the camera you wish to participate in the training plan.

- ❖ Once the camera is enrolled in the LPR Training Plans, the LPR Training Plans will appear under the Traffic module. We welcome everyone to join this plan and contribute further to enhancing the accuracy of algorithm recognition in your region, ultimately providing a better user experience.



2.2 Optimizations

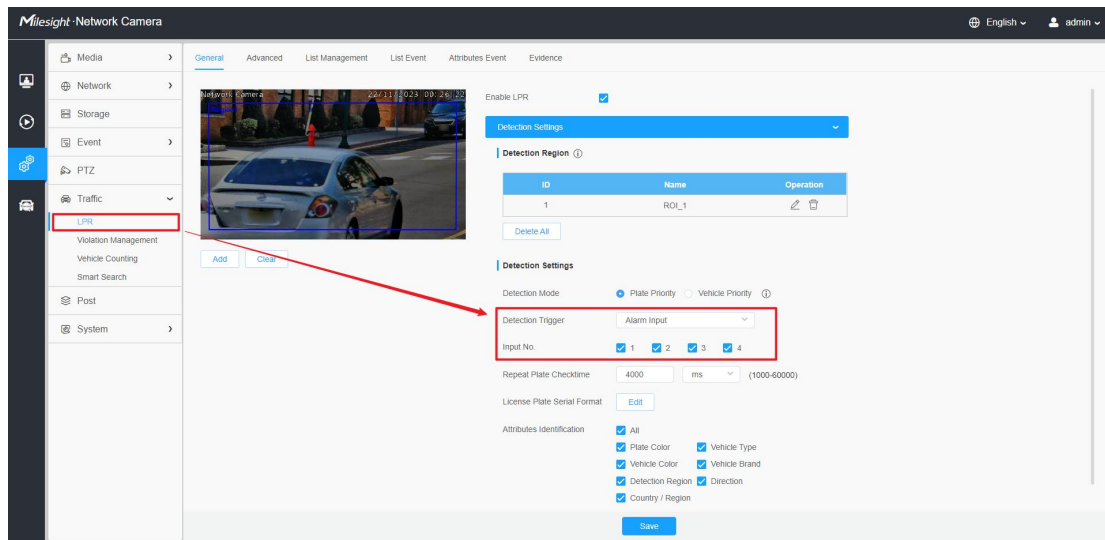
- 1) Customizable speed thresholds for different regions in radar models
 - ❖ In the Violation Management section, Speed Monitoring now allows setting different speed limits for specific regions. This feature enables effective speed control and management for various road sections, meeting diverse management needs.



Note:

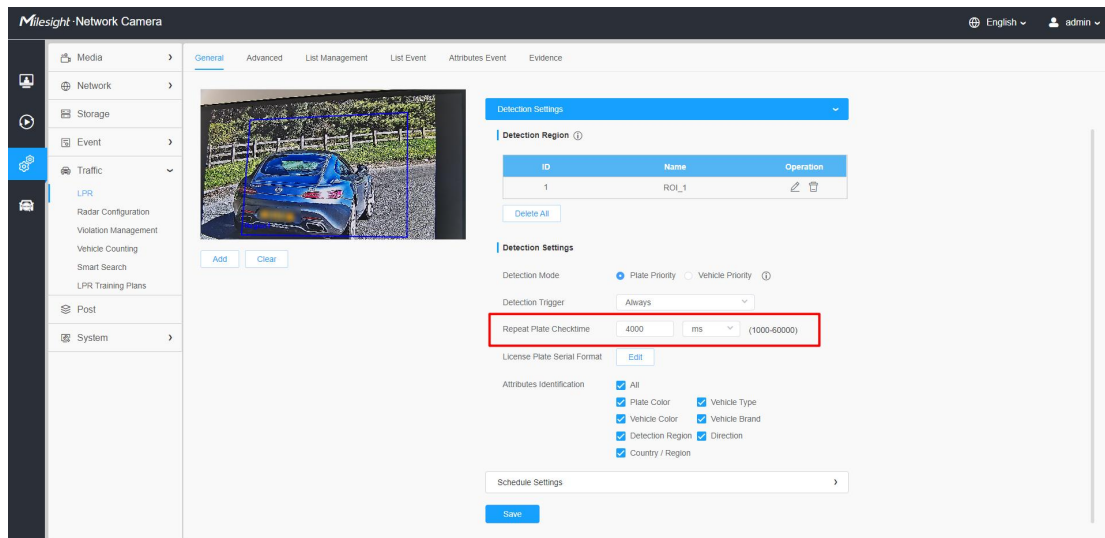
- ✓ Make sure the camera model is TSxxxx-xVxE.
- 2) Different Interface Options for Alarm Input Triggering Detection
 - ❖ The LPR detection trigger method, Alarm Input, now offers the option to select different input interfaces for triggering detection. Users can choose various external input signals to initiate capture and recognition. For example, when a vehicle passes through a corresponding induction coil, it can trigger capture and recognition. This allows for precise identification of entry and exit time information, or can be used as a basis for determining

violations such as red light running or cross line at red light. When an induction coil is triggered by a vehicle, the vehicle's recognition result is pushed to assist third-party platforms in determining whether a violation occurred during a red light infraction.



3) Repeat Plate Checktime Feature Enables Repeatable Pushes

- ❖ The Repeat Plate Checktime functionality now allows the repeated push of recognition results for the same vehicle based on the configured time interval. This feature allows multiple pushes to the backend platform, facilitating cross-validation of license plate recognition results. It also aids in continuous monitoring of vehicle location, duration of stay, and vehicle trajectory.



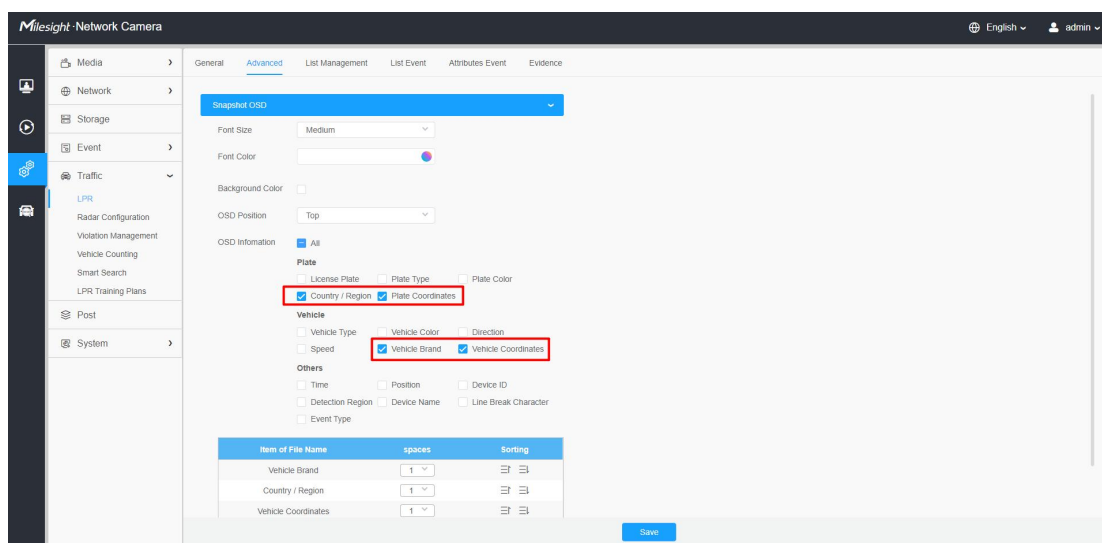
4) Increased database storage capacity

- ❖ When an SD card is inserted, the contents in the SD card can be directly read and overwritten, without being constrained by the database data retrieval quantity.
- ❖ The database storage capacity has been increased to 20,000 records, providing enhanced storage capabilities when no physical storage media is available. This enhancement ensures reliable and sufficient storage support for various applications.

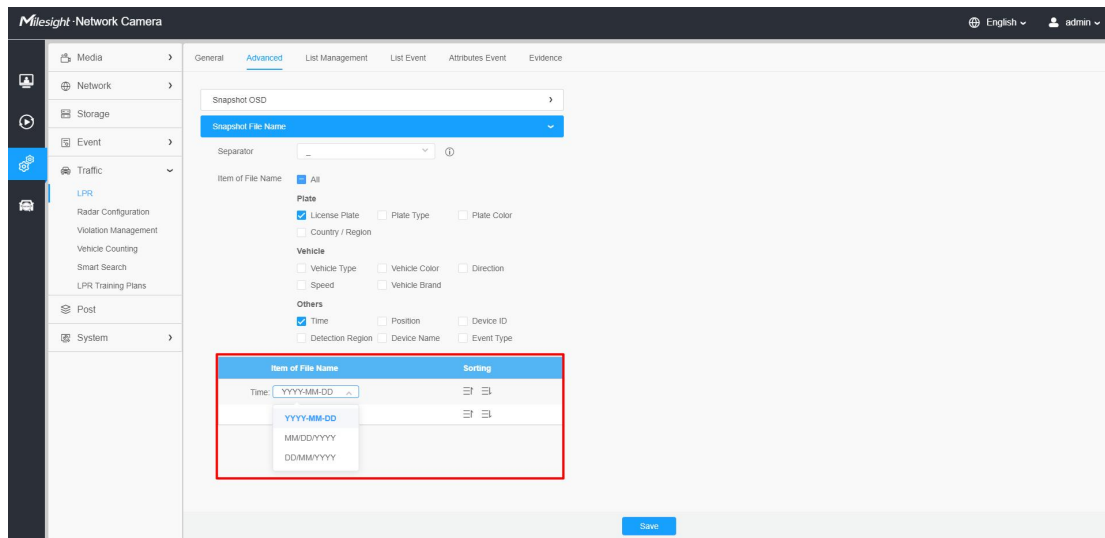
5) New plugin to optimize browser player performance

- ❖ The new plugin optimizes the browser's player performance, supports clearer and more stable stream playing (default is the Primary Stream), and enhances the browsing experience.

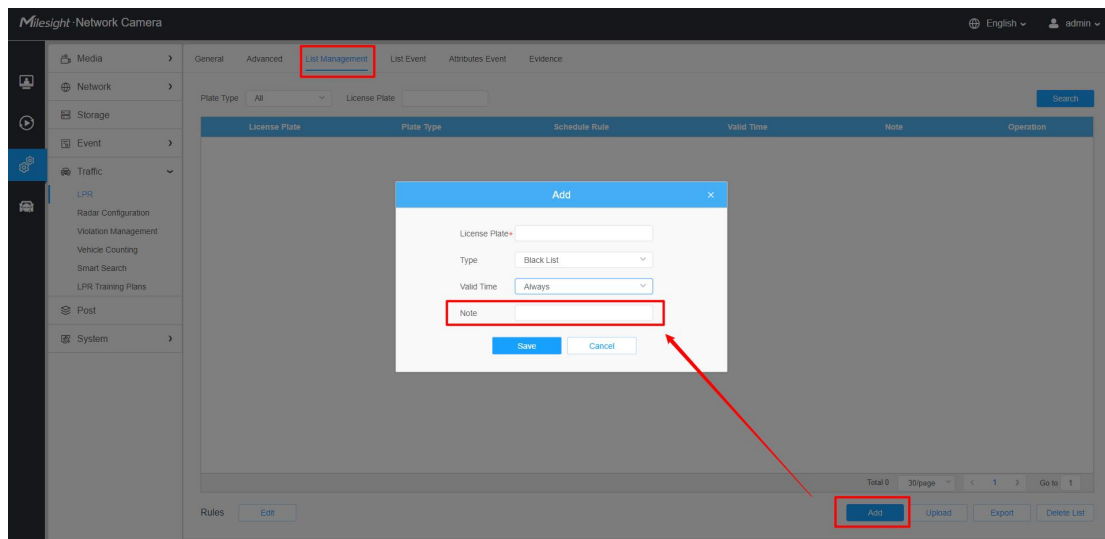
- 6) Add LPR snapshot OSD information & optimize time format configuration
- ❖ In the LPR snapshot OSD, support has been added to display multiple types of information, including vehicle brand and country details, as well as the coordinates of the license plate and vehicle. This feature caters to diverse information requirements for snapshots, enriching the level of information displayed in captured screenshots.



- ❖ The LPR snapshot OSD and filename now support customizable time format configuration. Users have the option to select the desired time format for both the displayed timestamp on the screenshot and the filename. This enhancement accommodates various time display preferences based on different regional conventions.

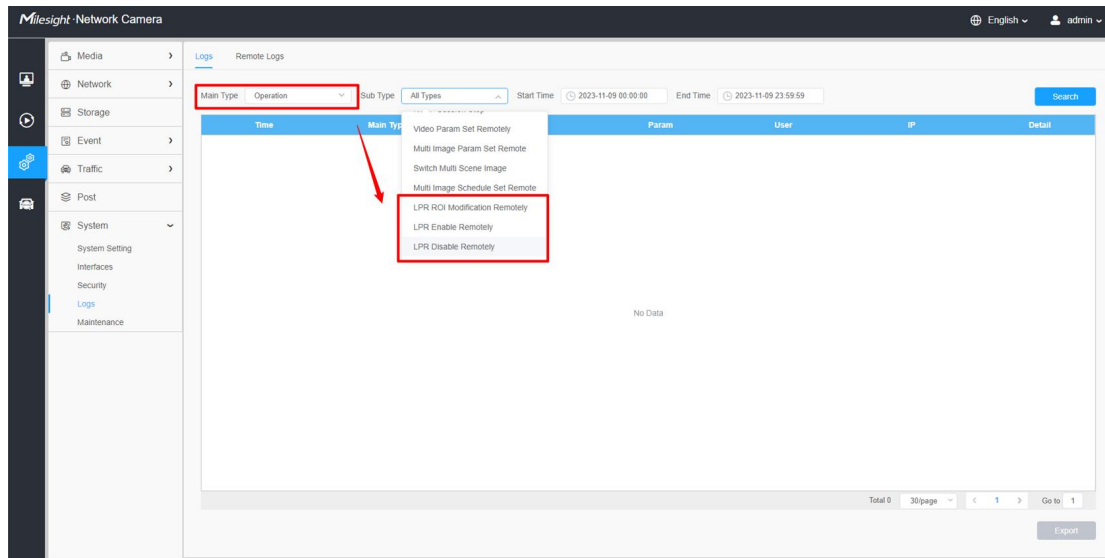


7) List Management note supports input of 64-bit characters



8) Add LPR configuration operation logs

- ❖ Add LPR key operation configuration logs, adding a total of three key operation logs: LPR ROI Modification Remotely, LPR Enable Remotely, and LPR Disable Remotely, which are convenient for querying related operations and problems.



2.3 Algorithm

- 1) Improve the accuracy of Detection Mode for Vehicle Priority.
- 2) Enhance license plate recognition stability and improve result accuracy.
- 3) Fix the missing detection under low-light conditions.
- 4) The AP version has optimized algorithms for Australia and Japan.

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