



Milesight Release Note for Intelligent Traffic Camera

Firmware Version: T_63.8.0.5

Applicable Model: MS-Cxxxx-xLxG1/TSxxxx-xxxG1

Release Date: 31th July, 2026

1. Overview

Milesight offers a variety of sensor products designed to capture meaningful data. By innovatively applying AI, 5G, and IoT technologies, Milesight significantly impacts various applications. The company 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 T_63.8.0.5 for its Intelligent Traffic Camera.

In this version, we have introduced enterprise-grade **OSDP protocol** support and **multi-type Line-Crossing Vehicle Counting**. We have expanded our traffic intelligence portfolio with **Radar Traffic Congestion Detection** and flexible **XML data transmission** formats. Connectivity and security have been significantly upgraded with **LLDP protocol** support, Secure **Email password recovery**, and real-payload HTTP Post testing.

Additionally, we have broadened **vehicle classification** to 15 sub-types and enhanced ecosystem compatibility across major third-party platforms.

2. Firmware Version Download

For the firmware version, please click the following link to download:

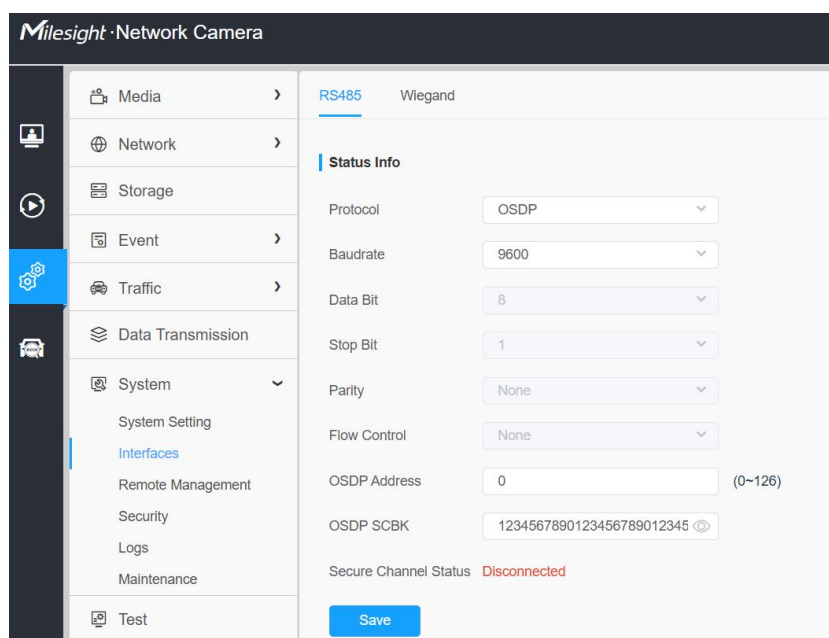
<https://www.milesight.com/support/resources/firmware#intelligent-traffic>

3. What's new

3.1 New Features

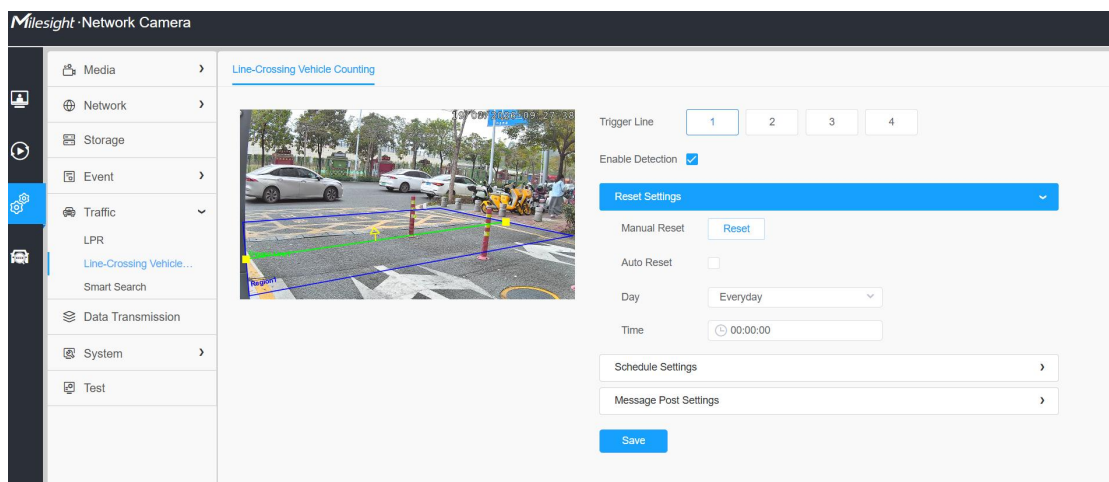
1) Enterprise OSDP Protocol Integration for Access Control

Added OSDP (Open Supervised Device Protocol v2) support over RS-485 with AES-128 Secure Channel encryption for Entrance & Exit models, allowing the camera to act as a secure peripheral device directly integrated with access control units (ACUs).



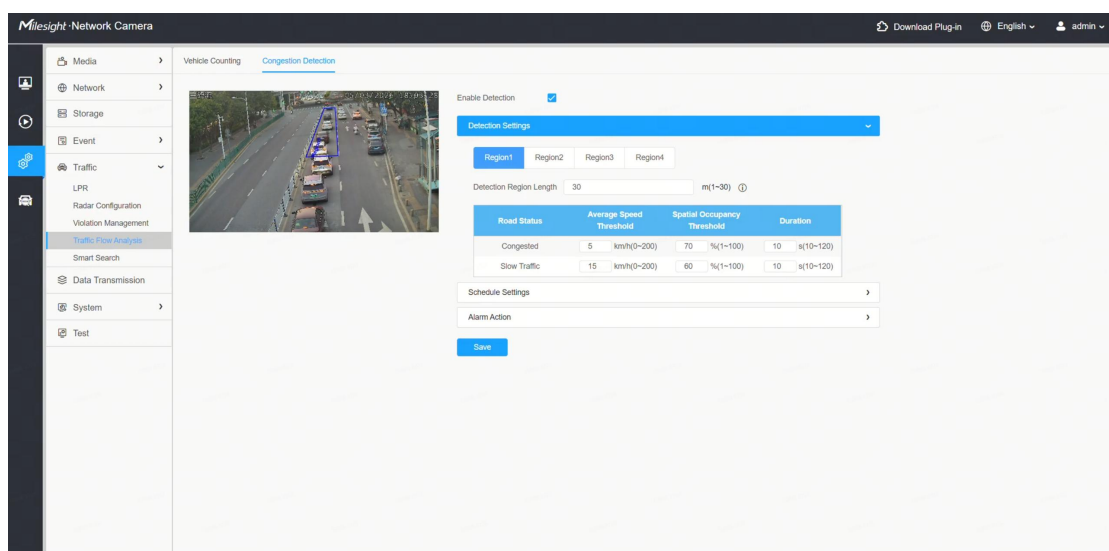
2) Line-Crossing Vehicle Counting for Entrance & Exit Series

Added multi-type vehicle counting capability based on up to 4 LPR trigger lines, supporting real-time/scheduled interval pushes and classification across 12+ vehicle types without losing count during device reboots.



3) Traffic Congestion Detection for Radar Models

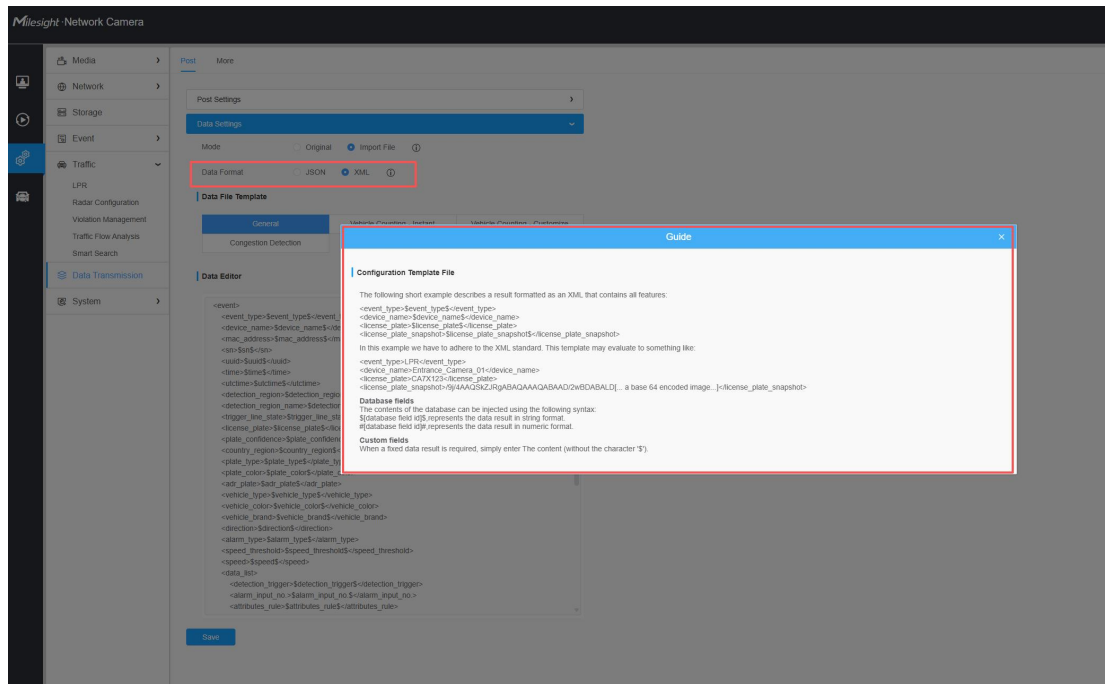
Added multi-dimensional congestion detection for radar traffic models based on average speed, spatial occupancy, and duration thresholds across 4 independent regions to output real-time traffic status (Congested, Slow Traffic, Smooth).



4) XML Data Transmission Format Support

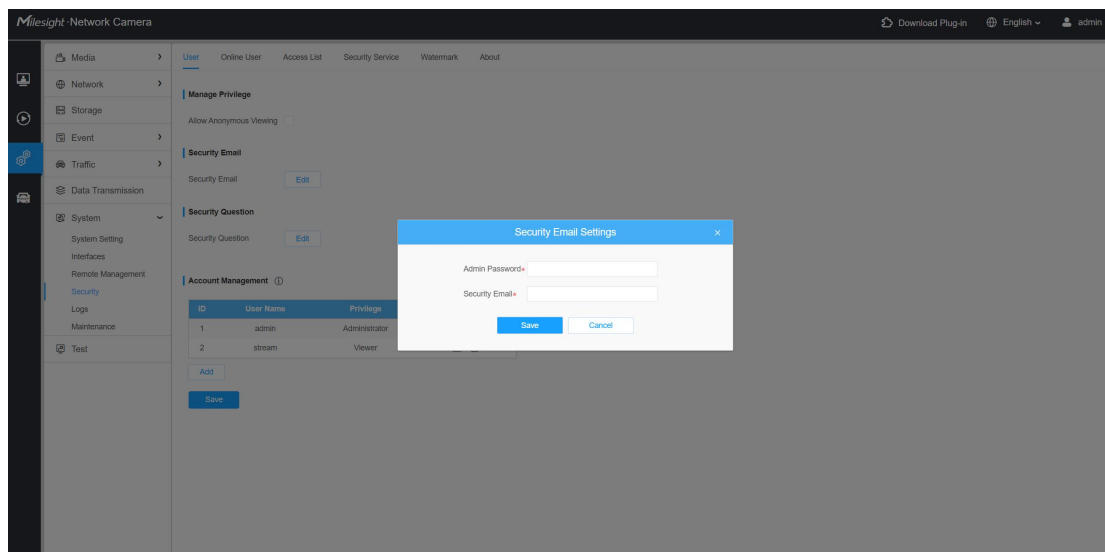
Added XML format support in Data Transmission settings alongside JSON, providing customizable XML templates for general LPR events and vehicle

counting.



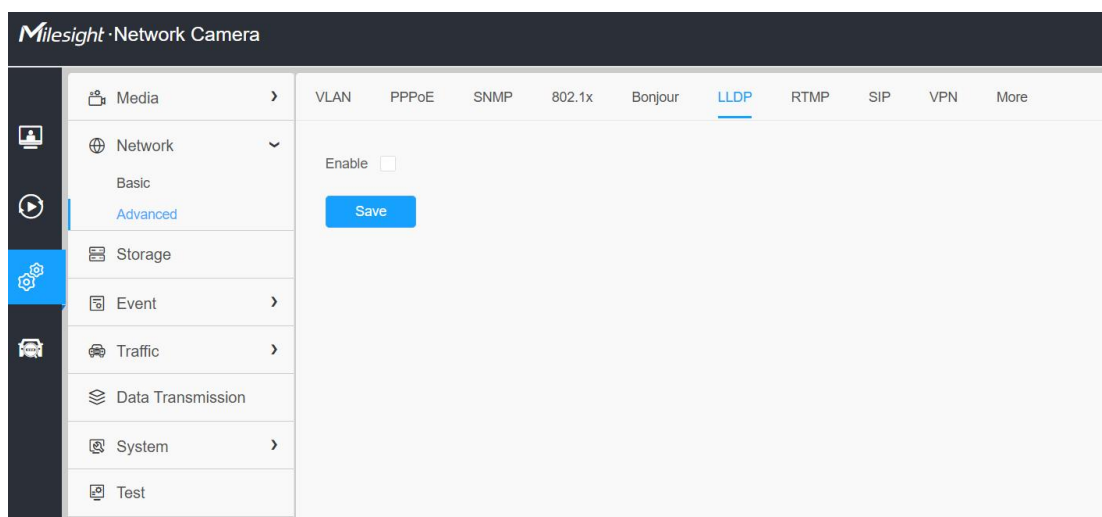
5) Password Reset via Secure Email

Added a Secure Email password recovery method, allowing users to pre-configure a recovery email and reset forgotten passwords via a time-sensitive verification code without returning the device to factory defaults.



6) LLDP Protocol Support

Added LLDP (Link Layer Discovery Protocol) support for Radar, Supplement Light, and Speed Dome models, enabling cameras to automatically announce device identity and capabilities to network switches for simplified deployment.



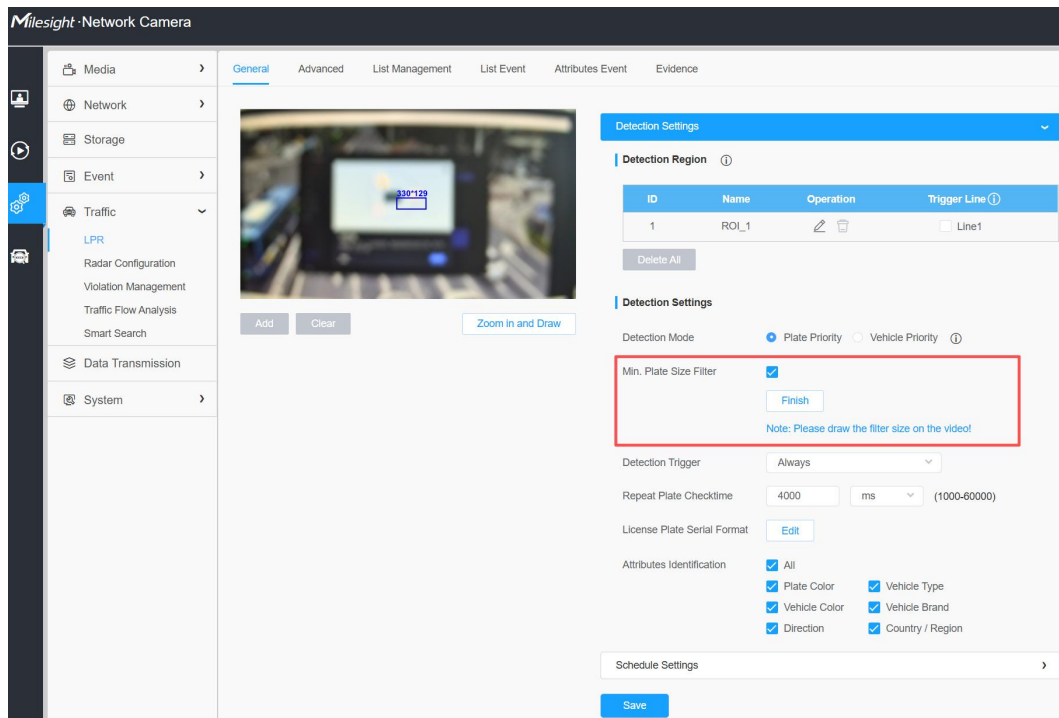
3.2 Optimization

1) Detection Mode Simplification for Entrance & Exit Series

Simplified Detection Mode for entrance & exit models by removing the Detection Mode selection from the UI (LPR → General). Firmware upgrades will automatically transition devices to this unified mode with zero user configuration required.

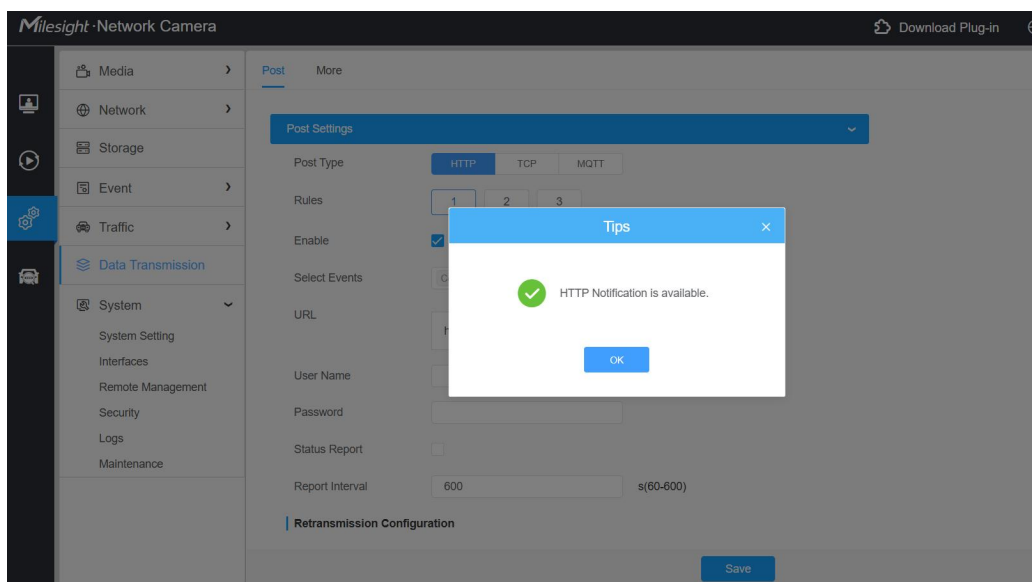
2) Real-Time Pixel Display for Min. Plate Size Filter

Added real-time pixel size display (Width x Height) directly on the Min. Plate Size Filter bounding box during editing, allowing precise spatial calibration for license plate recognition.



3) Real-Payload HTTP Post Test

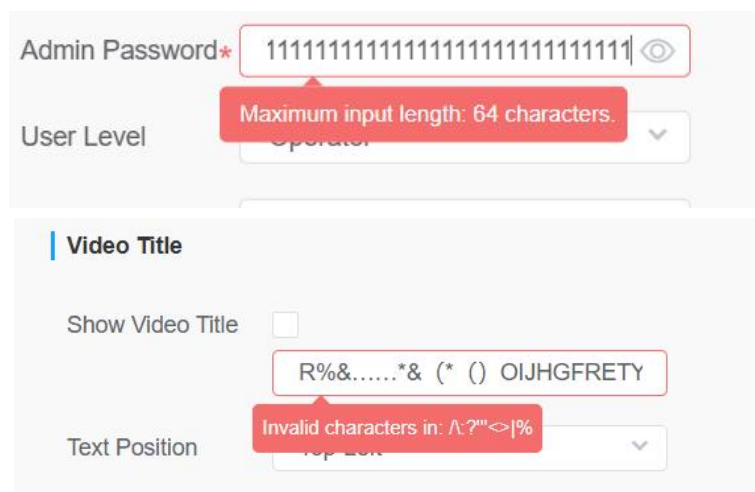
Optimized the HTTP Post Test function to transmit actual configured XML/JSON payloads (with event_type automatically set to "Test") instead of basic ping checks, ensuring full protocol and server-side verification.



4) Input Field Validation and Exceeded-Length Warnings

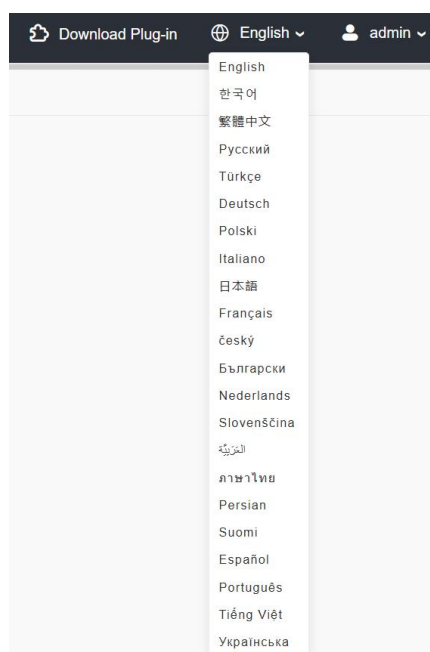
Optimized interactive validation for all text input fields to prevent silent text

truncation, displaying explicit warning messages with exact character limits (e.g., "Maximum input length: n characters.") when inputs exceed limits.



5) Comprehensive Multi-Language Localization Expansion

Optimized UI language coverage across 22+ languages to eliminate mixed-language interfaces, updated all new feature translations, and removed Simplified Chinese from the language selection.



6) WDRX Image Fusion Performance Optimization

Optimized WDRX (Wide Dynamic Range X) image fusion algorithms to improve

dynamic range handling, enhance detail preservation in high-contrast zones, and ensure consistent image quality across security scenarios.

3.3 Algorithm

1) Vehicle Sub-Type and Brand Classification Expansion

Expanded vehicle classification capabilities to 15 sub-types by introducing MPV, Pick-up, Mini Truck, and Trailer, while significantly broadening vehicle brand coverage.

2) Metadata Field Extensions

Added Plate Confidence score, ADR (Automatic Driver Recognition) image payload, and target Class category fields to metadata outputs for third-party platform filtering. Included support for Base64 image encoding in metadata pushes with an independent toggle switch for Genetec VSaaS.

3) Third-Party VMS & Platform Integration Optimizations

Optimized third-party ecosystem compatibility across Camcloud, ONVIF, Network Optix (NX), Milestone, Exacq, AxxonNet, QNAP, Geutebruck, and Axxon.

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