



Milesight Release Note for Intelligent Traffic Camera

Firmware Version: PI_61.8.0.5

Applicable Model: PM3322-E

Release Date: 15th 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 PI_61.8.0.5 for its Intelligent Traffic Camera.

In this version, we have introduced a major upgrade to the Parking Guidance Camera (PGC), expanding smart parking management capabilities. Key functional updates include **Parking Across Spaces Detection**, **Abnormal Parking Space Occupancy Detection**, **Motorcycle Occupancy Detection**, and **Timeout Alarm**.

Hardware and system flexibility have been significantly elevated with features like **Alternate Indicator Control** for single-lens models, **Black/White List Management**, customizable **Data Transmission** formats, and dedicated **Third-party VMS Integration** (supporting Genetec and zatpark auto-alignment). Additionally, LPR capabilities now benefit from vehicle brand recognition, complemented by expanded usability and security features.

2. Firmware Version Download

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

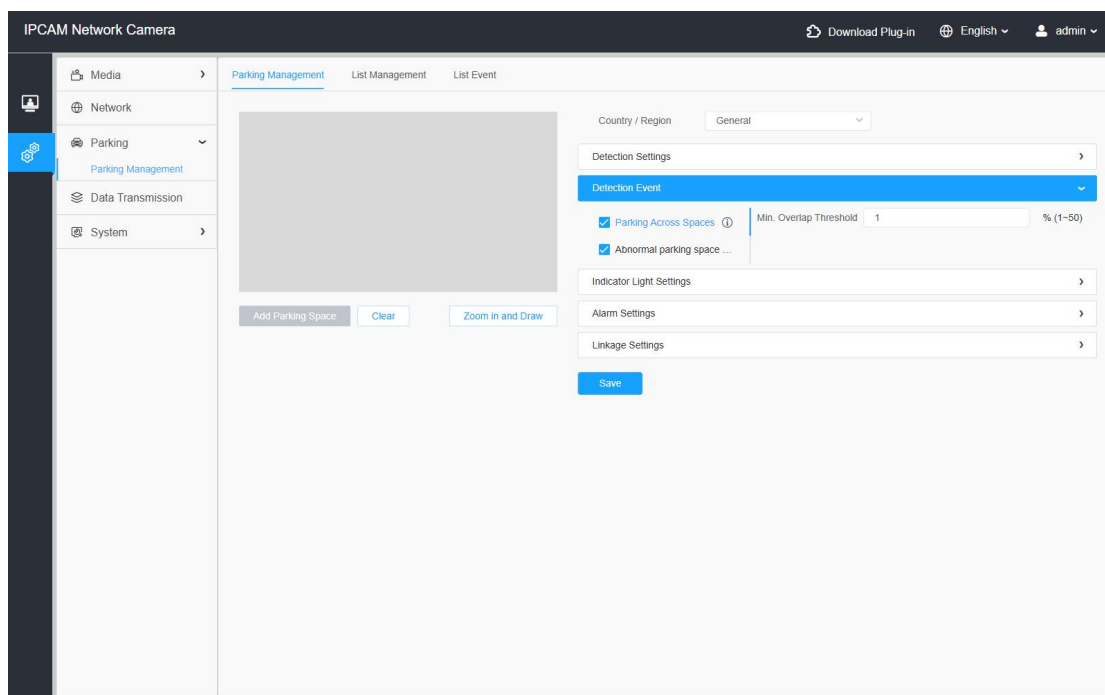
<https://www.milesight.com/support/download/firmware#lpr-camera>

3. What's new

3.1 New Features

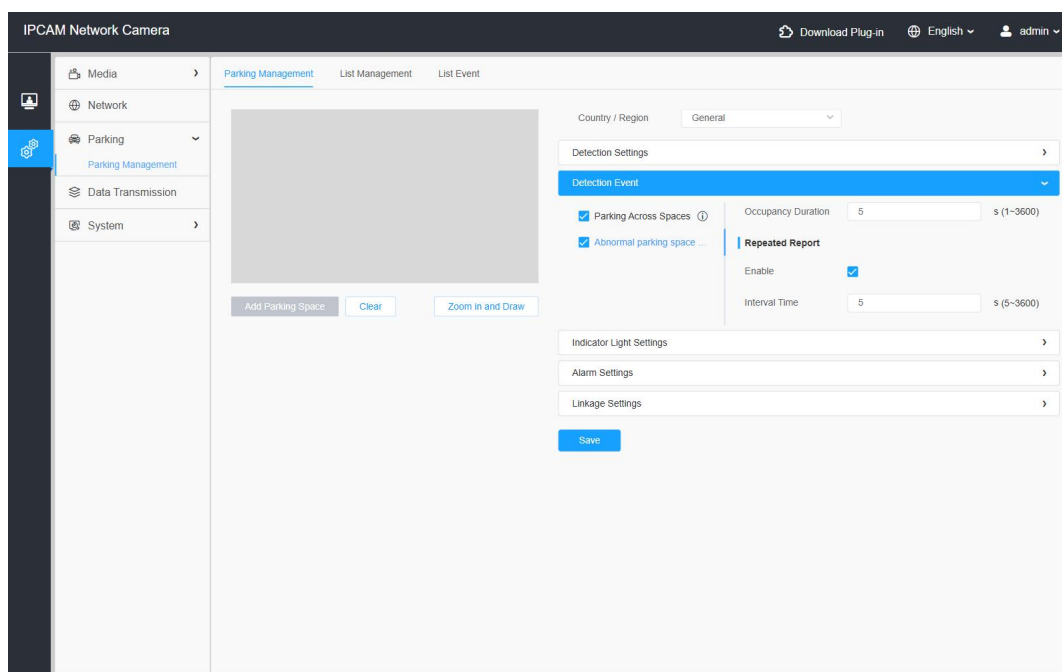
1) Add Parking Across Spaces Detection

A new Parking Across Spaces Detection feature is now available to identify vehicles parked across multiple space boundaries based on customizable overlap thresholds. Once a vehicle exceeds the configured overlap ratio, the camera immediately triggers an alarm and pushes snapshot evidence. This update prevents effective bay capacity loss and reduces guidance errors in high-turnover parking lots.



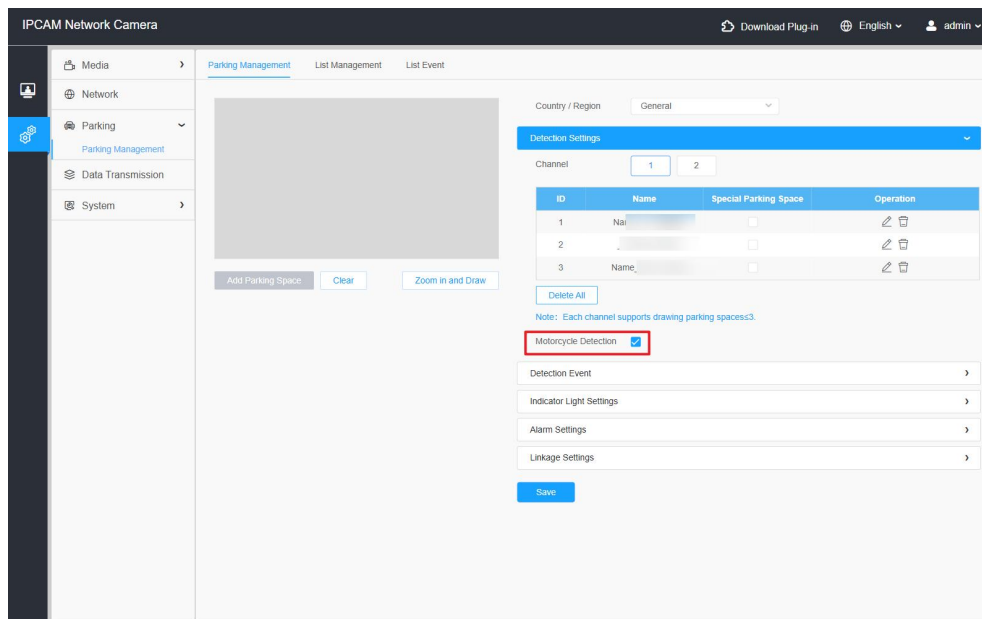
2) Abnormal Parking Space Occupancy Detection

The new Abnormal Parking Space Occupancy Detection feature allows cameras to distinguish between vehicles and non-vehicle obstacles (such as traffic cones, trash cans, shopping carts, cardboard boxes, and tires). By triggering alerts for lingering foreign objects when spaces are otherwise empty, this feature enables maintenance teams to clear blocked bays promptly and maintain accurate space availability displays.



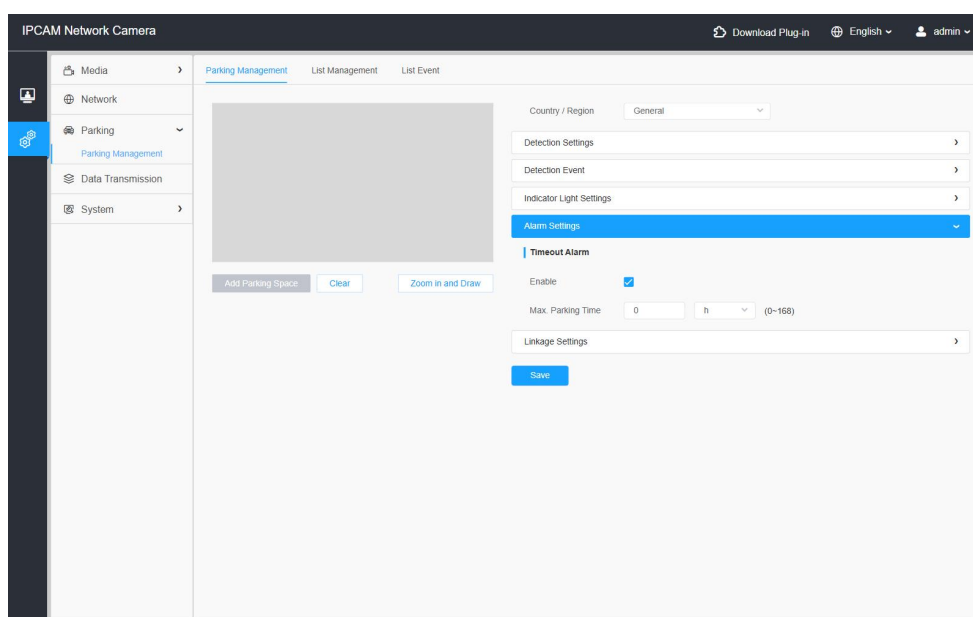
3) Motorcycle Occupancy Detection

A Motorcycle Occupancy Detection capability has been introduced to differentiate motorcycles and electric bikes from standard four-wheeled automobiles. This feature prevents false occupancy assessments in mixed-parking scenarios, ensuring reliable guidance data and flexible plate reporting.



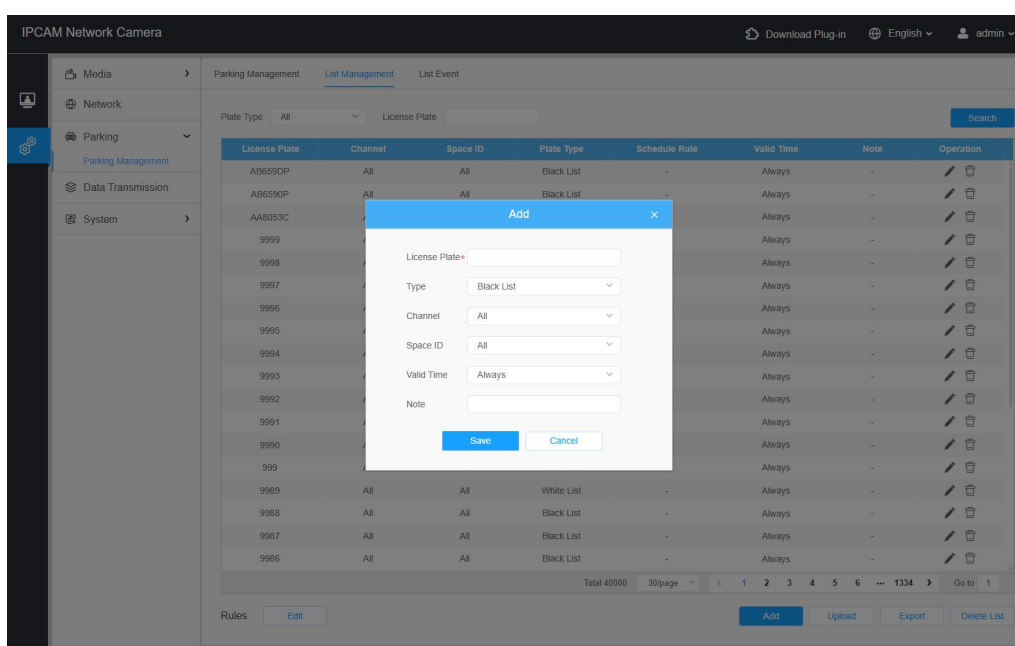
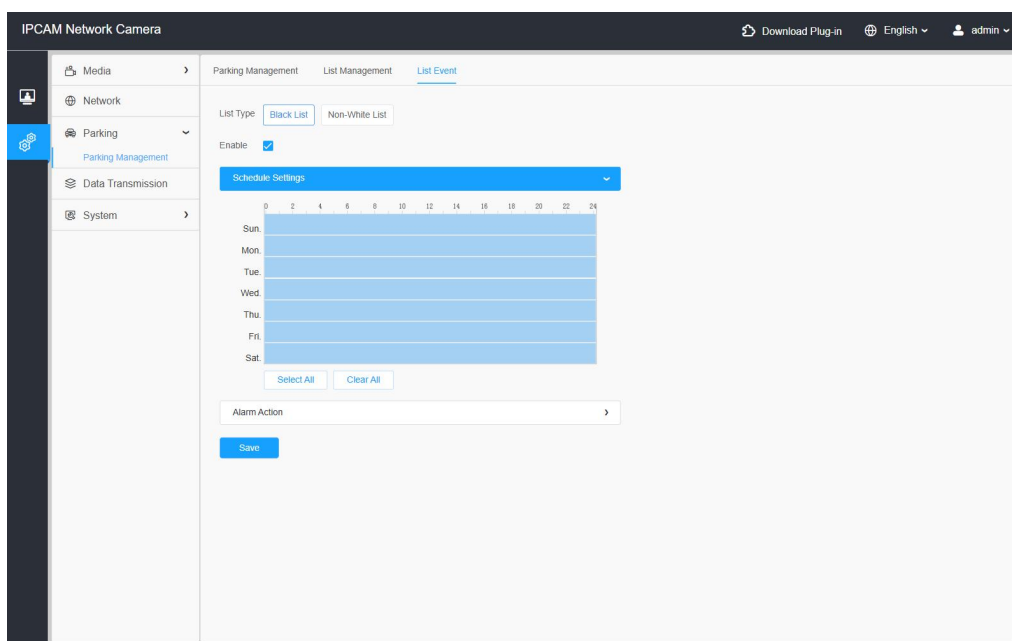
4) Intelligent Parking Timeout Alarm

A new Timeout Alarm feature is now integrated into the alarm management module. When a vehicle exceeds the preset maximum parking duration threshold, the camera automatically triggers a timeout alert complete with plate details and total elapsed time. This provides an efficient enforcement tool for paid timing lots, shared parking schemes, and limited-time free parking enforcement.



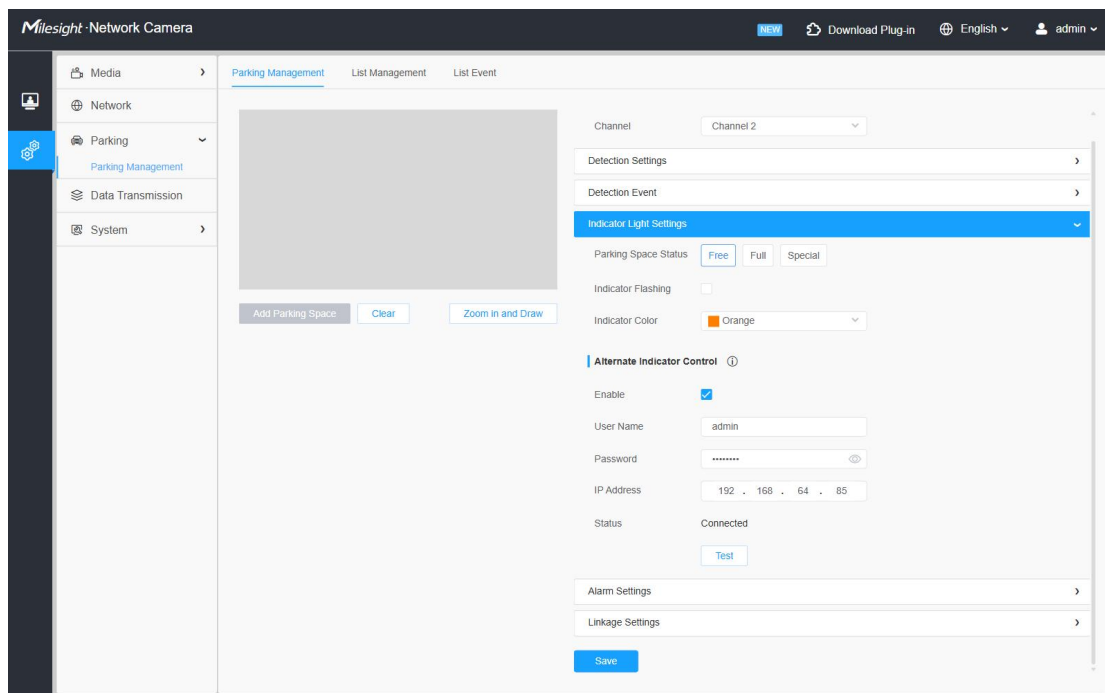
5) Black and White List Management

A comprehensive List Management module has been added, allowing Black List and Non-White List rules to be assigned directly to specific channels and space IDs. The feature supports bulk importing, HTTP notifications, and localized audio playbacks upon detection, facilitating VIP space protection, monthly-pass validation, and unauthorized vehicle deterrence.



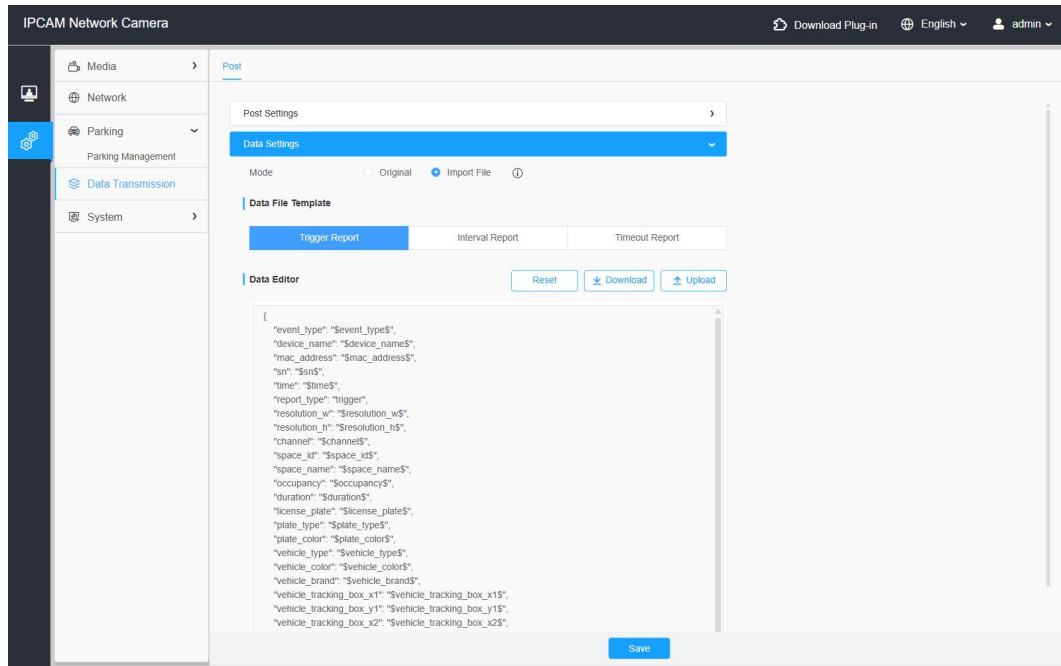
6) Alternate Indicator Control for Single-Lens Models

Single-lens cameras now support Alternate Indicator Control, enabling one camera to directly manage the status indicator lights of a facing camera across an aisle. This inter-camera communication reduces the requirement for external indicator controllers and extra cabling, offering greater deployment flexibility in symmetric parking layouts.



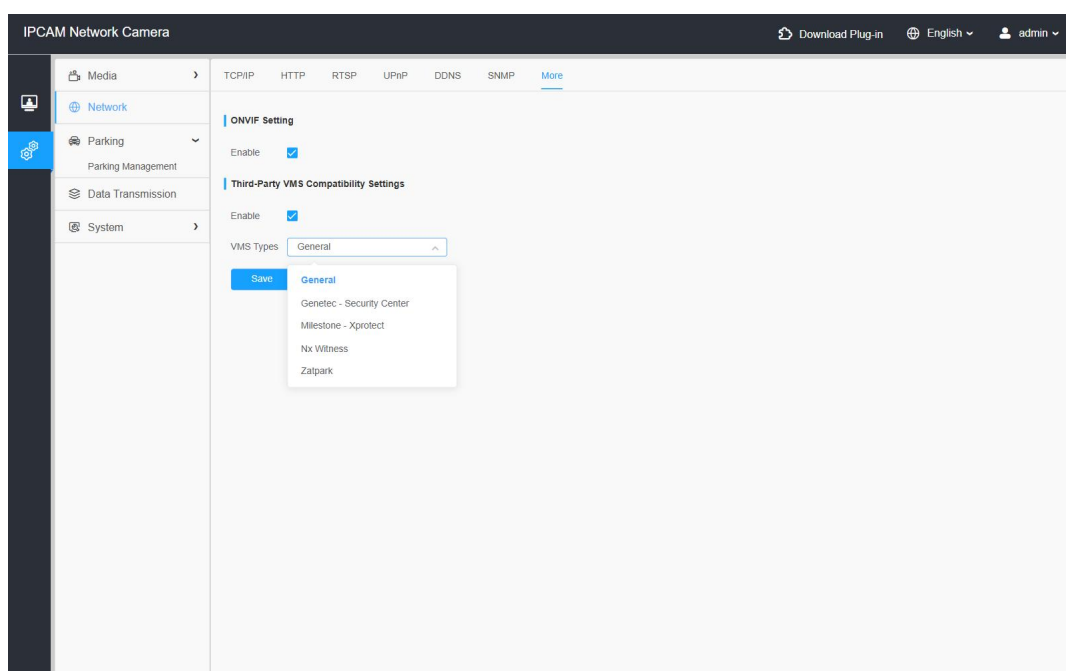
7) Customizable Data Transmission Formats

The data push engine has been unified under Data Transmission, supporting fully customizable JSON field templates and vehicle image payloads. Users can select between raw data formats and editable templates (Trigger, Interval, and Timeout reports) to match diverse third-party platform specifications without requiring custom firmware builds.



8) Native Third-Party VMS Field Alignment

A dedicated VMS Type selection menu (supporting Genetec - Security Center and zatpark) has been added under network settings. Selecting a VMS type automatically re-aligns push template fields (such as CameraName, ReferenceCameraId, and Plate) to natively comply with destination VMS requirements, streamlining integration workflows.



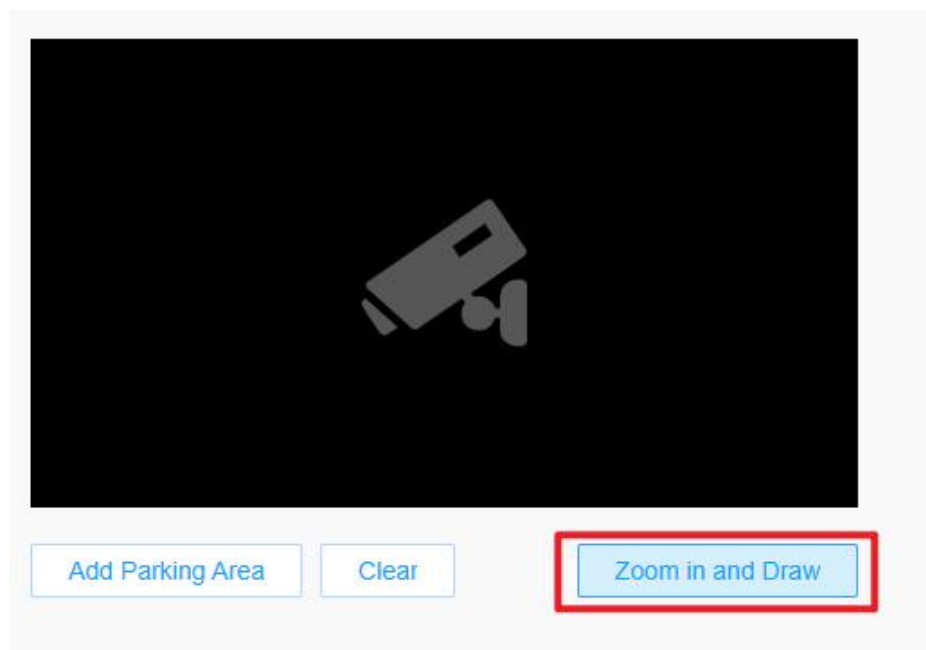
9) Milesight Device Portal Integration

New models now support direct onboarding to Milesight Device Portal platforms via serial numbers. This feature allows system administrators to perform centralized device management, web interface jumps, and remote batch firmware upgrades across large-scale parking infrastructure deployments.

3.2 Optimization

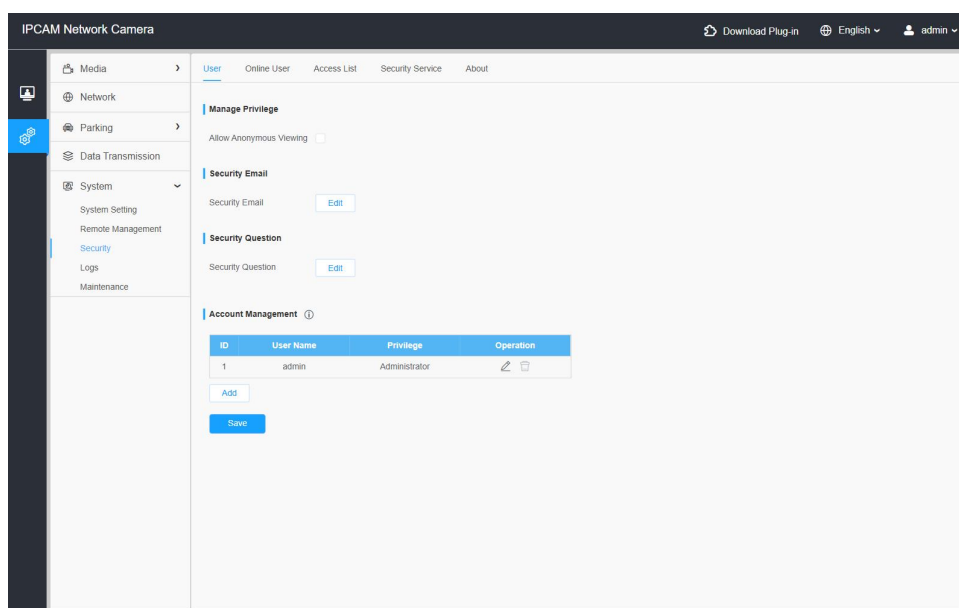
1) Full-Screen Zoom-In for Parking Space Calibration

The space configuration interface now incorporates a Zoom-in and Draw tool. Installers can enlarge the full-screen preview area to draw space ROI boundaries with extreme precision, resolving configuration challenges in complex, tight, or angled parking space layouts.



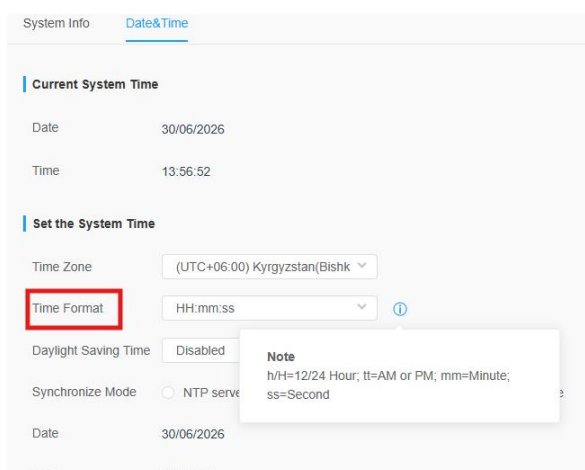
2) Enhanced Security and Password Recovery Options

Security workflows have been optimized to include Security Email password resets (via QR code scanning and verification codes), Anonymous Viewing switches, and real-time password strength indicators. These additions simplify administrative maintenance while safeguarding devices against unauthorized access and weak credentials.



3) Localized Display and OSD Formatting Controls

System usability has been refined to support 12-hour clock formats and remove character restrictions on the "&" symbol within OSD overlays.



3.3 Algorithm

1) Integrated Vehicle Brand Recognition

Vehicle brand identification capabilities have been added to the LPR pipeline, automatically populating the vehicle_brand metadata field. Covering over 100 global and regional brands (including major New Energy Vehicle brands like Tesla, BYD, NIO, and XPENG), this feature enriches vehicle profiling for analytics platforms.

2) ONVIF Decoupling for Third-Party Compatibility

Complete ONVIF protocol decoupling has been implemented and verified through comprehensive compatibility tests with major platforms including NX, Genetec, and Milestone. This architectural change optimizes video streaming reliability and event handling stability across heterogeneous third-party environments.

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