Milesight

Milesight Release Note

Firmware Version: SC211_21.1.0.8-r3

Release Date: 23th April, 2025

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 SC211_21.1.0.8-r3 of the Milesight 4G Solar-powered Traffic Sensing Camera.

In this version, we've added support for the Milesight Development Platform, including **OTA upgrade, remote SSH, and web access**. New log types are introduced, with expanded storage up to **60,000 entries**. Screenshot compression now supports low, medium, and high levels; binary format is added for image transmission to reduce data usage. GPS module now supports Auto and Manual modes.

Other improvements include enhanced **4G stability**, optimized **charging logic**, SD card formatting prompts and safe removal, and better GPS timeout and retry handling.
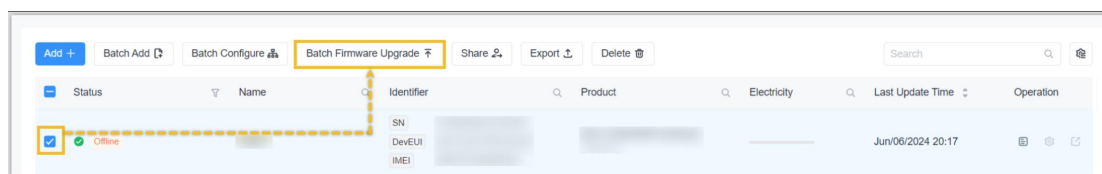
2. Firmware Version Download

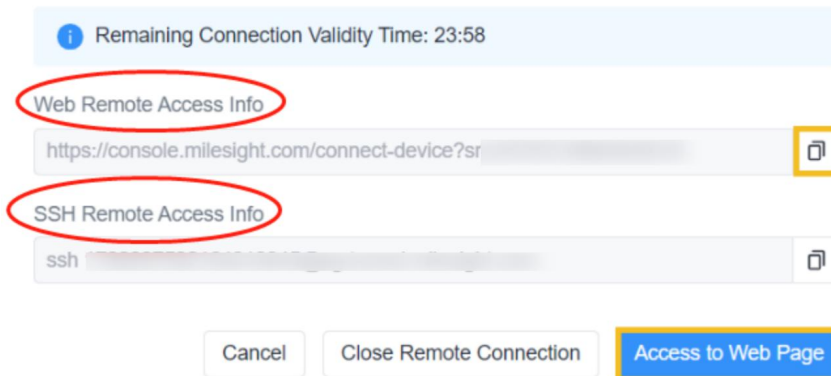For the firmware version, please click the following link to download:

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

3. What's new

3.1 New Features

1) Add Support for Milesight Development Platform

❖ Now supports OTA upgrades, remote SSH, and web interface access through the Milesight Development Platform, enabling more flexible and efficient remote device management.

❖ You can now register an account and add devices through the following link: https://account.milesight.com/login.
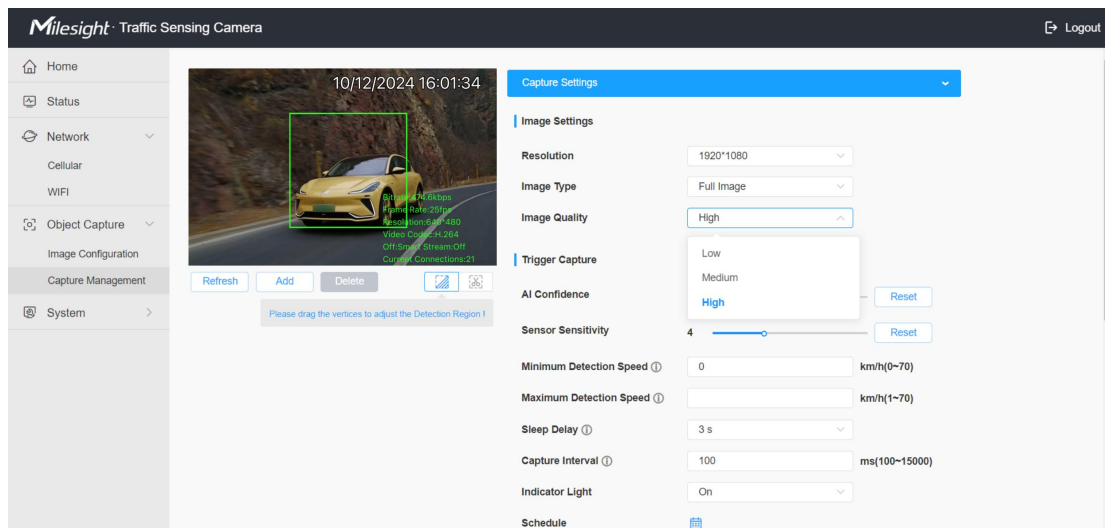

OTA Upgrades

Remote SSH

2) Add New Logs and Expand Storage Capacity

❖ SOC-side logs now include AT command sets and version info.

❖ MCU-side logs add reboot reason tracking for better diagnostics.

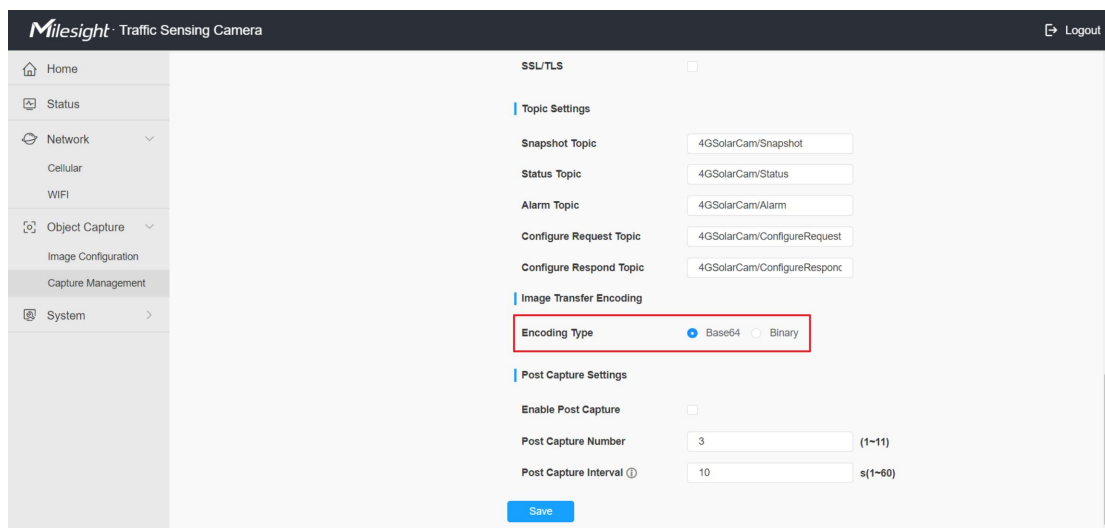❖ Overall log storage has been increased to 60,000 entries, supporting longer-term data review.

3) Add Screenshot Compression Options

❖ Screenshot quality can now be configured with low, medium, and high compression, allowing better control over image size and reducing 4G data consumption in bandwidth-limited environments.

4) Add Binary Format Support for Image Transfer

❖ In addition to Base64, image data can now be transmitted in binary format, helping reduce data size by avoiding the 33% overhead caused by Base64 encoding.
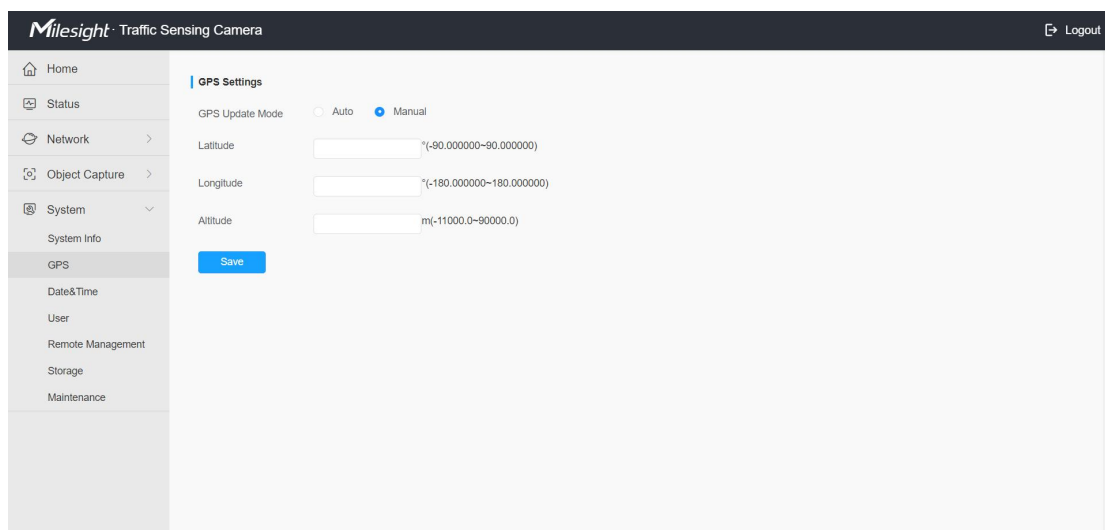
5) Add GPS Auto and Manual Modes

The GPS module now supports:

❖ Auto mode: periodic updates and on-demand GPS retrieval.

❖ Manual mode: manual input of longitude, latitude, and altitude.

This provides greater flexibility in deployment and debugging.

3.2 Optimizations

1) Improve 4G Network Stability

❖ Resolved certain 4G connectivity issues to ensure more stable and reliable

network performance.
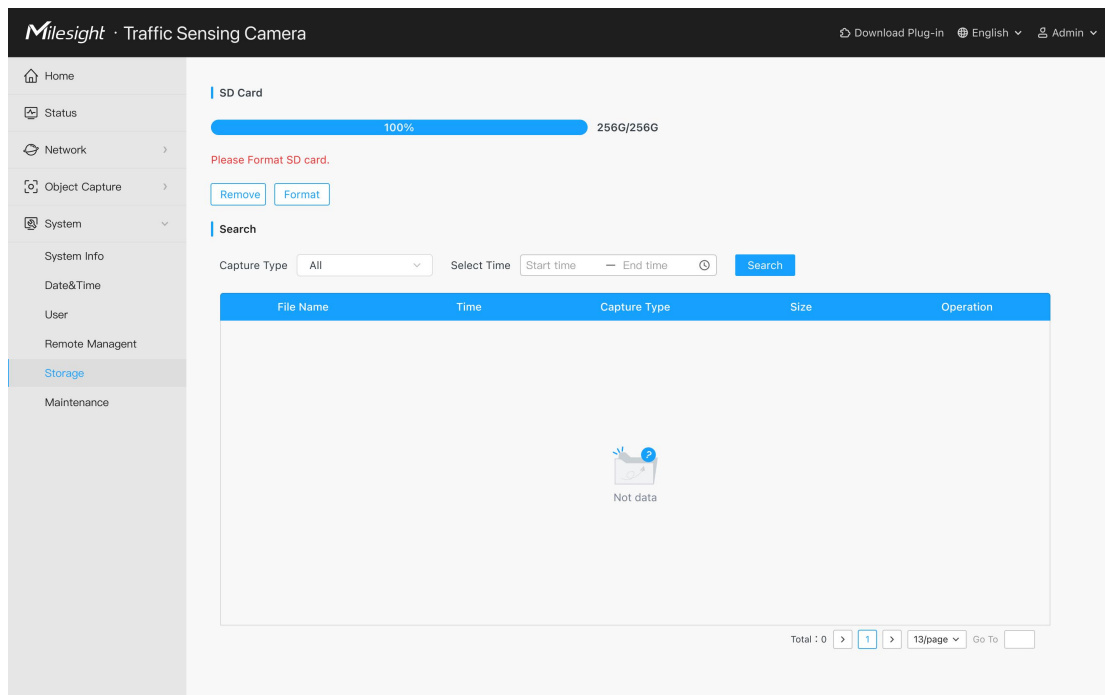
2) Optimize Charging and Heating Logic

❖ Charging behavior and temperature control have been fine-tuned for safer

and more efficient battery use in varying environments.
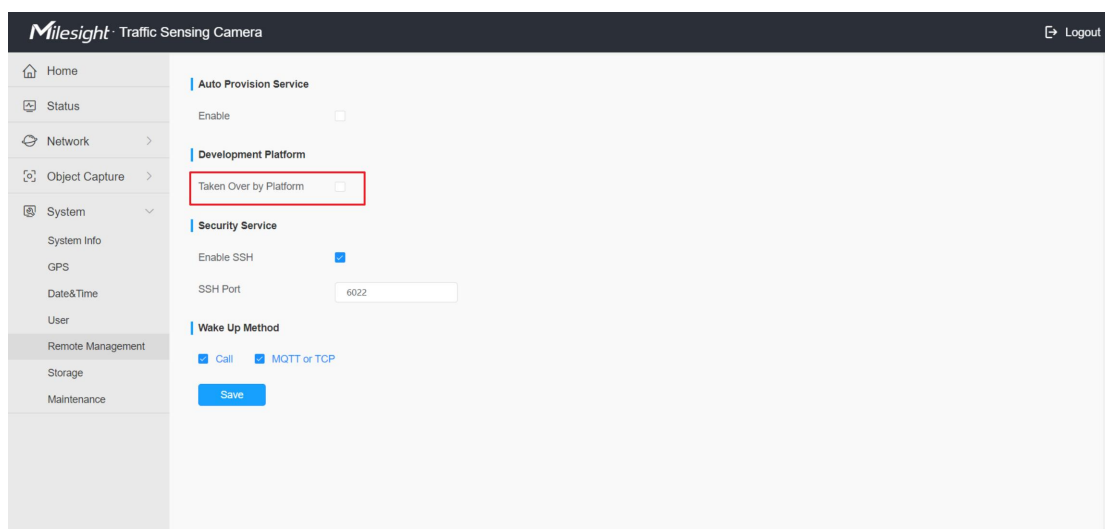
3) Optimize SD Card Formatting Workflow

❖ Added red prompt text: "Please Format SD card" when unformatted.

❖ **New Safe Removal option ensures secure SD card ejection and avoids file corruption.**

4) Adjust Data Report Takeover Setting

❖ **Data Report Takeover is now set to off by default.**

5) Enhance GPS Timeout and Retry Mechanism

❖ Extended GPS acquisition timeout to 2 minutes, with auto-retry logic added to improve success rates in weak signal areas.

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