

# Enhancing Rural Road Surveillance and Incident Response in Mongolia with Milesight LPR PTZ Cameras

Location: Mongolia

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Mongolia

Milesight Partner  
Universal Track LLC

Industry Segment  
Traffic Management

Related Products  
[AI Road Traffic Speed Dome Camera](#)  
[AI Road Traffic PTZ Bullet Plus Camera](#)

## Overview

Rural roadways often suffer from inadequate surveillance due to sparse infrastructure and the challenges of on-site maintenance. To address this, Universal Track LLC partnered with Milesight to deploy an advanced LPR-enabled PTZ camera solution across key rural trunk roads in Baruun-Urt soum, Sukhbaatar province, Mongolia. The solution, featuring both LPR PTZ bullet and speed dome cameras, was designed to assist local traffic police in vehicle tracking, incident investigation, and proactive enforcement in scattered and remote locations.



## Challenges



### Insufficient Monitoring on Scattered Rural Roads

With road sections widely distributed and lacking permanent monitoring infrastructure, it was difficult to capture reliable vehicle data in real time.



### High Maintenance Burden

Remote and decentralized camera installations made frequent on-site maintenance and manual adjustments impractical.



### Slow Incident Response and Investigation

Local authorities needed intelligent tools to quickly locate suspect vehicles and review events efficiently.

## Solution



### Scenario One: Remote Situational Awareness Using Speed Dome Cameras

- Deployed in rural zones for long-range surveillance and real-time event assessment.
- Officers can zoom in and monitor traffic incidents or suspicious activity clearly, even from a considerable distance.
- Enhances response capability in areas with minimal daily traffic but high potential enforcement needs.

### Scenario Two: Vehicle Recognition and Evidence Collection with LPR PTZ Bullet Cameras

- Installed at rural road intersections and entry points to capture license plates and key vehicle attributes.
- PTZ flexibility allows remote angle adjustments, reducing maintenance efforts in hard-to-reach areas.
- High-performance imaging ensures reliable capture even at night or in poor lighting conditions.



### Application Highlights:

- Extended Visual Coverage for Wide Rural Areas**  
With up to 36X optical zoom, Milesight cameras provide wide surveillance range, allowing authorities to observe and verify distant activity without physical relocation.
- All-Day Visibility with Starlight Imaging**  
Advanced low-light performance enables clear plate and vehicle recognition during nighttime or dim conditions common in rural environments.
- Remote Maintenance and PTZ Control**  
Remote control of pan, tilt, and zoom reduces the need for on-site visits, especially valuable for installations in remote or scattered locations.
- Intelligent Search for Faster Investigation**  
Smart LPR search enables police to locate relevant footage using partial vehicle data such as color, brand, direction, or plate fragments - saving time during investigations.
- Real-Time Violation Detection and Traffic Insights**  
Milesight cameras detect key violations (e.g., reverse driving, no-plate vehicles) and generates traffic statistics, helping law enforcement optimize patrol strategies and improve safety.

## Conclusion

Through the deployment of Milesight's intelligent LPR PTZ camera solution, Universal Track LLC successfully delivered a powerful enforcement toolset to the local traffic police. The system enhances rural surveillance with long-distance visibility, intelligent search, and remote management capabilities - **reducing maintenance workload while improving investigation efficiency and proactive policing**. This project demonstrates how scalable, smart camera solutions can make a significant impact in even the most remote traffic enforcement scenarios.