#### Milesight **Enhancing Urban Traffic Enforcement** in Vietnam with Milesight LPR Solutions Location: Vietnam MilesIght Partner Industry Segment Related Products Location 🤰 Vietnam **DMC** Traffic Management TrafficX Camera Al Road Traffic Pro Bullet Plus Camera

#### Overview

- In collaboration with Vietnam's local system integrator DMC, Milesight has successfully integrated its LPR cameras with Mekong Smartcam, a centralized security and traffic management platform developed by VNPT, one of Vietnam's top three telecom providers.
- As Vietnam's government increases investment in intelligent transportation systems, the police department plays a key role in urban traffic enforcement, relying on real-time, high-quality data for effective decision-making.
- To support this national initiative, over 300 Milesight LPR cameras have been deployed across urban roadways to provide reliable plate recognition and high-quality video streams, helping improve traffic flow, enhance law enforcement capabilities, and reduce violations.



# Challenges



#### **Demand for High-Quality** Video Streams

Urban deployments often involve complex lighting environments, such as tunnels, intersections, or night scenes, which require exceptional imaging performance to ensure data usability for analytics.



#### **Need for Accurate** Plate Recognition

License plate data is the foundation of smart enforcement. High capture and recognition rates are essential to ensure reliability for downstream



#### Seamless Platform Integration

Integration with Mekong Smartcam requires stable RTSP video streaming to ensure reliable real-time monitoring and enforcement. Any instability or latency in data transmission could compromise the responsiveness and accuracy of the overall traffic management system.



#### **Traffic Hotspots** Monitoring

Certain locations, such as city centers and main intersections, are enforcement priorities for traffic police and require equipment with enhanced performance.

#### Solution

To meet the demands of modern urban traffic management, Milesight deployed over 300 Al-powered LPR cameras across key city roads. Two product lines were selected and strategically applied based on environmental and performance needs.



#### TrafficX Camera for High-Priority Zones

Used in areas with poor lighting, high enforcement focus, and stricter imaging requirements, the TrafficX series offers:

- Up to 250km/h Recognizable ANPR:
- Accurately identifies plates and vehicle information even at highway speeds. Global Shutter:
- Eliminates motion blur for clear captures of fast-moving vehicles. Frame Parity Flashing:
- Ensures clear capture of the vehicle body and license plate (reflective & non-reflective plates).
- Up to 60m Long IR Distance:

Enables accurate license plate recognition of distant vehicles even in low-light or nighttime environments.

740nm/850nm IR Wavelengths:

Ensures optimal recognition across various plate types -740nm is especially effective for reflective plates or plates with light-colored characters, while 850nm supports general visibility.

### AI LPR Bullet Camera for General Coverage

Ideal for standard traffic zones, this model provides exceptional value and performance:

- 4X/12X Autofocus Lens:
- Adaptable for varying road widths and installation heights. Up to 4K Ultra HD Resolution:
- Delivers crisp, detailed footage for back-end analysis. 1/1.8" Sensor & 0.002Lux Starlight:
- Ensures visibility even in near-total darkness.
- 90fps High Frame Rate: Captures fast-moving vehicles with precision.

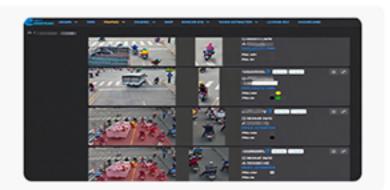


## **Application Highlights**



### Robust System Interoperability

Milesight cameras are seamlessly integrated with VNPT's Mekong Smartcam platform via stable RTSP streaming, ensuring reliable, real-time video delivery. Milesight cameras offer full support for CGI/APIs, TCP, HTTP, and MQTT protocols - laying a solid foundation for future upgrades. This forward-compatible architecture enables easy expansion toward more intelligent, API-driven front-end applications as customer needs evolve.



### Superior Imaging for Advanced Video Analytics

The delivery of stable, high-definition video streams ensures high-quality input for back-end intelligent analytics, enabling more precise and efficient detection of violations such as red-light running and improper lane usage.



### Industry-Leading LPR Performance

With a capture rate exceeding 99% and LPR accuracy over 98%, the cameras deliver highly reliable data for downstream processing. This ensures precise, real-time traffic enforcement and supports data-driven decision-making in intelligent transportation operations.

# Conclusion

This deployment demonstrates how Milesight's Al-powered LPR solutions can elevate traffic enforcement and urban mobility through accurate, real-time data collection and seamless integration with national ITS platforms. The project not only supports Vietnam's growing smart city ambitions but also sets a solid foundation for scalable, efficient, and intelligent traffic management in complex urban environments.

### Milesight









