

# Integrated Traffic Information Display System on La Gomera Island

Location: La Gomera Island, Spain

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La Gomera Island,  
Spain

Industry Segment  
Traffic Management

Related Products  
• AI Road Traffic Pro Bullet Plus Camera

Core Technology  
[PlateXpert](#) ANPR Technology  
[IntelliPlateXpert](#)

## Overview

To enhance traffic monitoring and optimize road safety on La Gomera Island, five sets of integrated traffic information display systems were deployed. Each system features a Milesight AI Road Traffic Pro Bullet Plus Camera, an infrared (IR) illuminator, a controller, and a variable message sign (PMV), all connected in real-time to a centralized control center via 4G or LoRa.

This comprehensive setup enables accurate vehicle data collection, real-time traffic information dissemination, and centralized data management, significantly contributing to smarter traffic governance on the island.



## Challenges



Lack of real-time traffic visibility across the island.



Difficulty in capturing clear images during nighttime or low-light conditions.

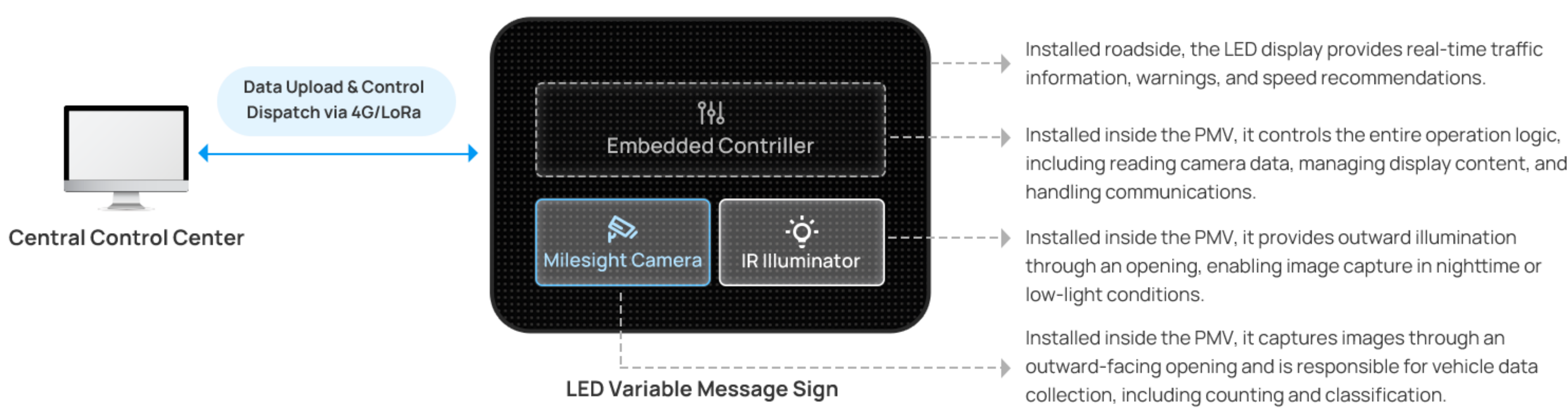


Need for intelligent, automated control and data processing without frequent manual intervention.



Limited infrastructure to support dynamic traffic information delivery.

## Solution



### Fully Integrated Design

- All components (camera, IR light, controller, LED screen) are housed in a compact unit, simplifying deployment and reducing installation costs.
- Designed for resilience in outdoor environments, ensuring reliability even under harsh weather conditions.



### Milesight Camera Integration

- Accurately captures vehicle data including vehicle count and classification (e.g., cars, trucks, motorcycles), enabling detailed traffic flow analysis.
- Built-in AI capabilities ensure edge-side data processing, reducing bandwidth usage and latency.



### IR Illuminator

- Provides supplemental lighting through a dedicated aperture, ensuring image clarity in low-light or nighttime conditions.
- Supports 24/7 uninterrupted monitoring regardless of ambient lighting.



### Embedded Controller

- Acts as the operational brain of the PMV system, orchestrating all internal components.
- Processes image data from the camera, extracts traffic metrics, and controls the LED display content in real time.
- Supports wireless communication protocols (4G/LoRa), enabling flexible and remote updates from the control center.



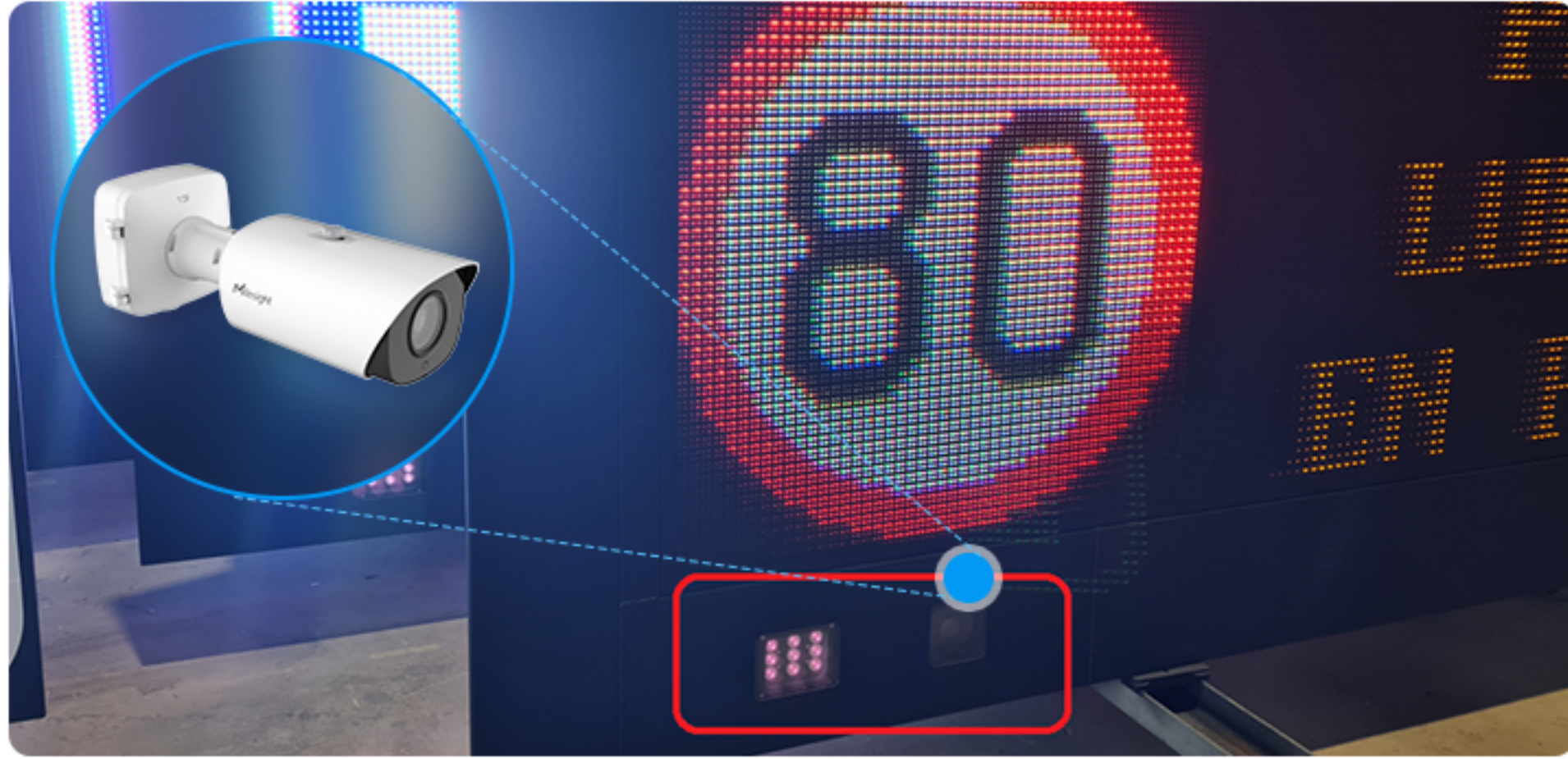
### Data Connectivity with Central Control Center

- All units are remotely managed through a centralized platform, which allows operators to:
  - Monitor system health and traffic conditions in real time.
  - Push content or alerts dynamically based on current road status.
  - Aggregate and analyze historical traffic data to support long-term planning and congestion management.



### PMV LED Display (Variable Message Sign)

- Instantly displays dynamic content including speed limits, congestion alerts, weather warnings, and real-time traffic updates.
- Enhances driver awareness and encourages compliance with traffic advisories, reducing accidents and congestion.



## Conclusion

The implementation of this smart traffic display system on La Gomera has greatly improved traffic flow efficiency, enhanced road safety through real-time alerts, and empowered authorities with accurate, real-time data for better urban mobility planning. It stands as a successful example of how integrated edge AI solutions can elevate traffic management in remote or infrastructure-limited regions.

## Product Showcase



### AI Road Traffic Pro Bullet Plus Camera

- Traffic Violation Detection
- Intelligent AI-powered LPR Algorithm
- Traffic Flow Statistics
- Evidence Camera Linkage
- 4X/12X AF Lens
- Up to 4K Ultra High Definition
- 1/1.8" Sensor & 0.002Lux Starlight
- 90fps High Frame Rate