

Illegal Dumping Investigation Solution in Australia

Australia

Milesight Partner JDK	Location Australia	Industry Segment Traffic	Related Product Milesight AI Road Traffic PTZ Bullet Plus Camera >
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Overview

Illegal dumping incidents in parts of Australia have created growing cleanup costs and placed increasing pressure on local waste management and enforcement resources. To improve investigation efficiency and evidence collection, the monitoring system combines the [Milesight AI Road Traffic PTZ Bullet Plus Camera](#) for vehicle and license plate identification with a VLM-based analytics application hosted on CamThink computing hardware for suspected illegal dumping detection. Together, they help trace suspected dumping incidents back to potentially associated vehicles, supporting further investigation and evidence review.



Challenges



Increasing Illegal Dumping & Cleanup Costs

Growing illegal dumping incidents resulted in significant cleanup costs and increased pressure on local resources.



Difficulty Identifying Responsible Vehicles

Detecting dumped waste alone was not enough. The system also needed to identify vehicles potentially associated with each incident.



Complex Evidence Correlation

Suspected dumping events needed to be accurately matched with vehicle and license plate records to support further investigation and legal action.



Limited Power Infrastructure

Some monitoring locations required solar-powered deployment, creating additional requirements for camera power consumption and system reliability.

Solution

 **High-Accuracy Vehicle Identification with LPR**

- Combining LPR and PTZ capabilities in a single device, [Milesight AI Road Traffic PTZ Bullet Plus Camera](#) provides up to 99% vehicle capture rate and up to 98% LPR accuracy, helping ensure that vehicles passing through monitored areas are reliably captured and identified.
- This high level of recognition accuracy is particularly valuable for illegal dumping investigations, where clear and reliable vehicle identification is critical to correlating an incident with a potentially responsible vehicle.
- With reasonable power consumption, the camera can also be integrated into the a solar-powered monitoring solution, making it suitable for locations where access to conventional power infrastructure may be limited.

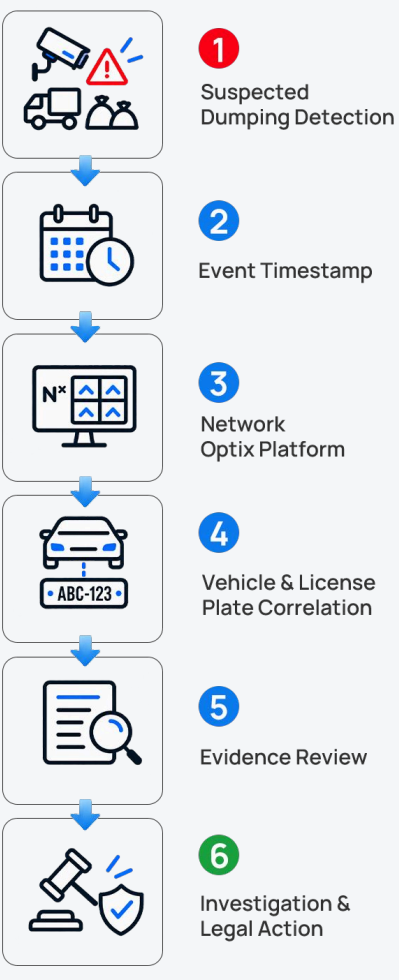


 **VLM-Based Illegal Dumping Detection with CamThink**

- CamThink computing hardware hosts the VLM-based analytics application used to [analyze monitored areas and identify suspected illegal dumping items or activities](#).
- Once a suspicious dumping event is detected, the system records the corresponding event timestamp, providing a reference point for further investigation and vehicle correlation.

 **Event-to-Vehicle Evidence Correlation with Network Optix Platform**

- The timestamp of the suspected dumping event is recorded in the Network Optix video management platform and [correlated with vehicle and license plate records captured by Milesight camera during the same period](#).
- This enables operators to identify vehicles potentially associated with the incident and retrieve relevant video footage, vehicle information, and license plate evidence for further review and investigation.



Result

By combining VLM-based illegal dumping detection hosted on CamThink computing hardware with Milesight's high-accuracy vehicle and license plate recognition, the solution provides a more effective way to connect suspected dumping events with potentially associated vehicles. **Reliable vehicle capture and license plate recognition provide stronger identification data for evidence correlation, while the integrated workflow reduces the effort required to trace vehicles associated with illegal dumping incidents.** The solution improves investigation efficiency and evidence collection, while compatibility with solar-powered deployment enables flexible monitoring across locations with limited access to conventional power infrastructure.

Products



AI Road Traffic PTZ Bullet Plus Camera

- Flexible Pan, Tilt and Zoom Tasks
- 5X/12X/20X/23X AF Lens
- 1/1.8" Sensor & 0.002Lux Starlight
- 90fps High Frame Rate
- Traffic Violation Detection
- Intelligent AI-powered LPR Algorithm
- Evidence Camera Linkage
- Plate Data Management