

Milesight Enables Intelligent PTZ Bay Monitoring with Zatpark Integration



Milesight Partner Total Car Parks Ltd	Milesight Technology Partner Zatpark, Go2SIM	Location UK	Industry Segment Parking	Related Products Milesight AI Road Traffic PTZ Bullet Plus Camera
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Overview

To support efficient parking enforcement and bay occupancy management for a hotel surface car park near a seaside location, Milesight partnered with **Total Car Parks Ltd** and technology partners **Zatpark** and **Go2SIM** to deploy an intelligent bay monitoring solution powered by Milesight AI Road Traffic PTZ Bullet Plus Cameras. The solution enabled automated PTZ patrol monitoring, clear timed snapshots, and seamless HTTP Post integration with the Zatpark platform for parking duration calculation and enforcement management across five different car parks.



Challenges

<p>PTZ cameras needed to patrol multiple parking bays continuously while maintaining accurate preset positions over long operating periods.</p>	<p>Preset locations gradually shifted after 24-48 hours of continuous patrol operation, affecting monitoring accuracy.</p>
<p>The solution required reliable timing snapshots at each preset position for bay occupancy verification.</p>	<p>Captured vehicle data needed to be transmitted seamlessly to the Zatpark platform for parking duration analysis and enforcement processing.</p>
	<p>The solution needed to support standard bay monitoring and double red line violation monitoring within the same deployment.</p>

Solution

Intelligent PTZ Bay Monitoring with Automated Patrols

Milesight deployed AI Road Traffic PTZ Bullet Plus Cameras across five car parks to perform automated patrol-based bay monitoring. The PTZ cameras continuously moved between predefined preset positions, with each preset corresponding to a specific parking bay or monitoring zone. At every preset location, the cameras captured timed snapshots for occupancy verification and vehicle identification.

Seamless Integration with **zatpark** Parking Enforcement Platform

- A key advantage of the deployment was the strong compatibility between Milesight cameras and the Zatpark platform, one of Milesight's important technology partners in smart parking enforcement solutions.
- The cameras transmitted captured snapshots directly to Zatpark through HTTP Post integration. By combining bay identification, timestamps, and Milesight snapshots, Zatpark was able to automatically calculate vehicle parking duration, determine overstays, and support enforcement workflows such as penalty issuance. This seamless interoperability enabled an efficient and highly automated parking management process.

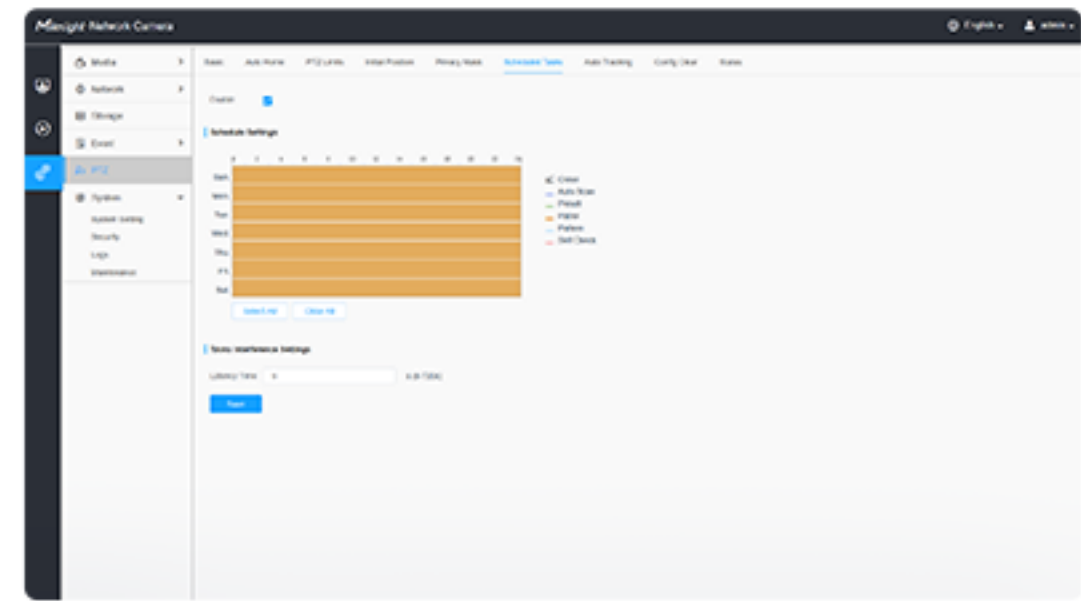


Multi-Scenario Monitoring Across Different Car Parks

- The deployment included multiple monitoring scenarios:
- Two PTZ cameras were installed in one car park to monitor vehicles stopping on double red line roads using Milesight's loitering detection function.
 - One additional camera monitored loading bay parking activity in the same site.
 - Seven more cameras were deployed across four additional car parks for dedicated bay monitoring applications.

Schedule Task Optimization to Maintain PTZ Preset Accuracy


- During operation at the Bluewaters AG Hotel car park, one PTZ camera experienced preset position drift after extended patrol periods. To mitigate this issue, Milesight engineers utilized the Schedule Task function to trigger a one-minute Auto Scan every day at midnight before resuming normal patrol operation.
- This approach was intended to help stabilize PTZ preset positioning during long-term patrol operations. The daily Auto Scan helped maintain accurate preset positioning over extended operation periods, ensuring reliable long-term patrol stability without requiring Auto Reboot or Auto Home functions.



Results

By leveraging Milesight AI Road Traffic PTZ Bullet Plus Cameras together with Zatpark, the project successfully achieved stable and automated bay monitoring across multiple parking sites. The optimized Schedule Task configuration helped reduce the occurrence of preset drift during extended patrol operation, although further optimization is still under investigation. The seamless integration between Milesight cameras and Zatpark enabled efficient parking duration management, overstay detection, and enforcement processing, significantly improving operational efficiency for parking management teams.

Products



Milesight 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