

CASE STUDY



ALLGOVISION ADVANCED VIDEO ANALYTICS FOR SINGAPORE CITY TRAFFIC SURVEILLANCE

SYSTEM INTEGRATOR: D-RON

SOLUTION DETAILS

CAMERAS: SONY-164 NOS.(PHASE-I),
AXIS-95 NOS.(PHASE II), VMS: MILESTONE
VIDEO ANALYTICS: ALLGOVISION

VERTICAL MARKET:
TRAFFIC SURVEILLANCE

FEATURES:
ILLEGAL PARKING DETECTION,
PRIVACY MASKING

Traffic Surveillance System is a must for modern day cities. Awareness on traffic rule violations enables the traffic authorities take corrective actions to avoid significant disturbances, from traffic jams to accidents, and even loss of life. Video Analytics detects and identifies such breaches and makes the system more effective.

PROJECT REQUIREMENT

The Land Transport Authority (LTA) of Singapore wanted to bring the city's roadways under camera surveillance primarily in view of enforcing traffic rule against illegal parking. A two-phase implementation started with Phase 1 where they tested the system at specific locations and upon positive results implemented the surveillance throughout the island city.

THE SOLUTION

AllGoVision implemented its advanced and feature-rich Video Analytics solution that works on a robust algorithm to detect and alert on traffic violations, especially illegal parking, in the context mentioned. This solution was equipped to detect and alert on parking violations even on busy roads with continuous traffic. Any vehicle parked or stopped in a specified zone in the camera view would initiate an alarm if it stays there for more than a defined time period. AllGoVision's advanced video analytics can intelligently differentiate an object by its classification (people or vehicle), and sends alerts only for vehicles.

THE CHALLENGE

PRIVACY CONCERNS HAD TO BE TACKLED WITH SINCE CAMERAS CAPTURED EVENTS IN PUBLIC LIFE.

ALLGOVISION VIDEO ANALYTICS TRAFFIC SURVEILLANCE FEATURES

- Vehicle Wrong Way Detection
- Vehicle Speeding Detection
- Illegal Parking Detection
- Vehicle Counting
- Vehicle Congestion Detection
- Meta-data Search based on Vehicle Color
- License Plate Detection & Capture
- License Plate Recognition (LPR) / ANPR



‘FACING’ THE CHALLENGE

Privacy Masking, one of the highly efficient features of AllGoVision’s VA detects and masks human faces that come under surveillance so as to allay all privacy concerns. The non-masked data are also readily available in case of forensic inquiries should a need arise.



BENEFITS

To identify a CCTV monitoring zone, LTA painted or marked the lamp posts or sign posts with an Orange vertical strip. Any vehicle parked for more than 2 minutes in such zones would raise an alarm enabling the traffic management personnel to take immediate action. Compared to a video surveillance with only cameras, the application of Video Analytics has provided Effectiveness and Cost Efficiency in the process. While more than 90% accuracy could be achieved, the general public were also assured protection of their privacy in the surveillance process.

REFERENCES CITY / TRAFFIC SURVEILLANCE

City Surveillance in Qatar City
Traffic Surveillance in Singapore
Surveillance for Lavasa Township, India
Bandra - Worli Sea Link, Mumbai, India
Traffic Surveillance in Turkey



ABOUT ALLGOVISION

AllGoVision's Video Analytics solutions have been deployed in surveillance applications ever since 2009. Headquartered in Bangalore with branches in the US and Dubai, AllGoVision is a leading video analytics solution provider with successful installations worldwide. It has dedicated itself into in-depth research and product innovation. AllGoVision video analytics software is equipped with 40 plus basic and advanced Video Analytics features. An open platform integrated with many VMS manufacturers. AllGoVision focuses on providing to its customers – robust performance, cost efficiency, ease of use and customization.