



LPR-ASE

License Plate Recogniser
(LPR) for Average Speed
Enforcement

Smart and Secure Living for All

ASE-Series

License Plate Recogniser solution for travelling speed

Revolutionized speed enforcement solution using License Plate Recognition technology

ASE-Series is a line of industrial-grade vehicle license plate recognition (LPR) product designed to detect vehicles at two separate points for Average Speed Enforcement (ASE).

Unleash the full potential of your speed enforcement operations with our innovative LPR system. Our solution offers an effortless, efficient and accurate way of tracking vehicle speeds and capturing license plate information.

Features

- High-precision license plate recognition technology
- Average speed calculation across multiple cameras
- Advanced algorithm for suppressing false alarms
- Robust and scalable architecture
- Integration with existing traffic enforcement systems

Why Choose LPR for Average Speed Enforcement?

1

INCREASED EFFICIENCY

Our LPR system can capture license plate information and calculate average speed in real-time, reducing the time and resources required for manual enforcement operations.



2

ENHANCED ACCURACY

With advanced algorithms for suppressing false alarms, our system ensures that only violators are identified and prosecuted, reducing the risk of human error.



3

IMPROVED ROAD SAFETY

By accurately tracking vehicle speeds, our system can help to reduce the incidents of dangerous and reckless driving, promoting road safety for all.



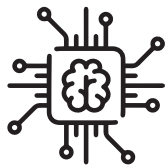
4

SCALABLE AND FLEXIBLE

Our system can be easily integrated with existing traffic enforcement systems and can be scaled to accommodate the needs of even the largest enforcement operations.



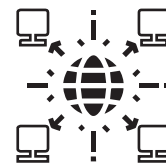
Technical Features



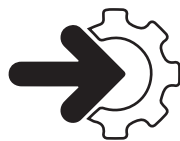
Powered by Deep Learning Technology



High Performance, High Precision



Support both Centralized and Edge Processing



Easy integration with parking system



Industrial-proven, wide adoption

ASE Models



ASE-EX

Designed & built to fit industrial LPR application that requires real-time performance on-site and immediate response with third-party application.



ASE-C

Rack-mounted LPR engine server designed and built to fit large-scale applications capable of processing up to 10 channels (real-time) from one location.

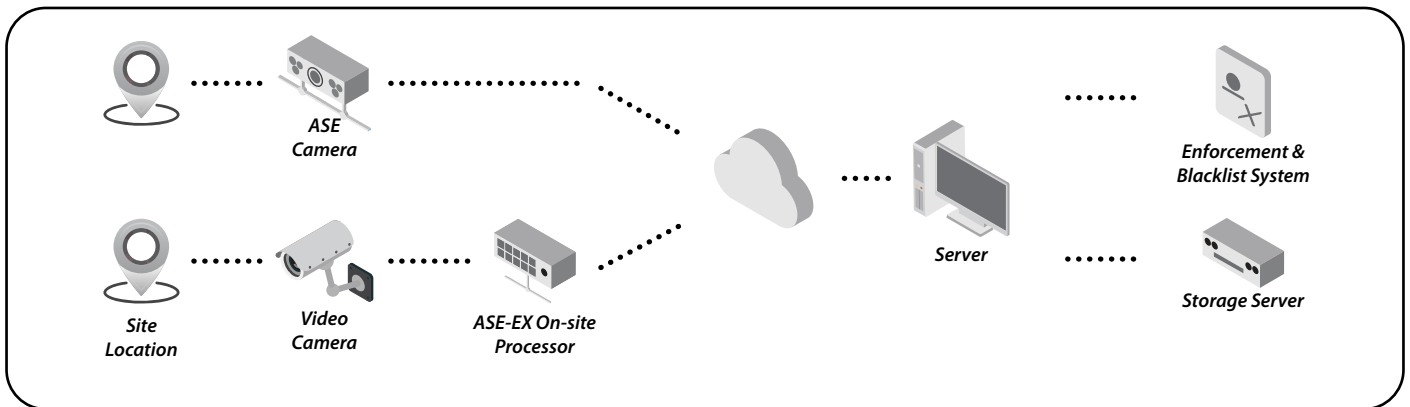


ASE-Camera

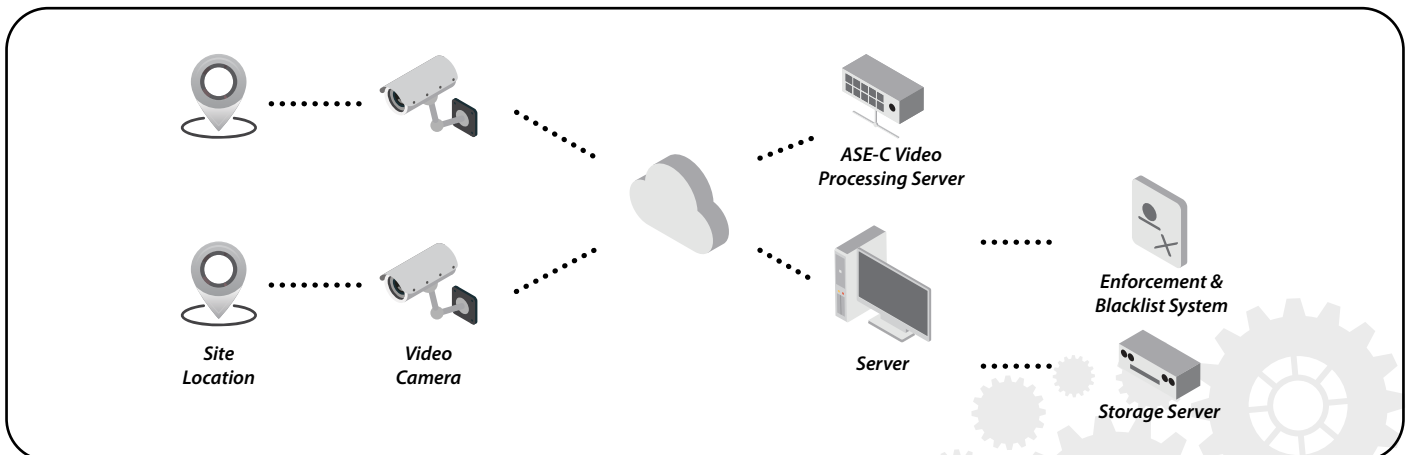
High performance LPR design and in-built onto a mobile camera for on-site license plate reading and various enforcement applications.

*All pictures shown here are for illustration purpose only. Actual product size may vary.

System Architecture for ASE-EX & ASE-Camera



System Architecture for ASE-C



ASE Series Functions



Real time license plate recognition



Support single or multiple channels



Vehicle classification



Web-based management module



Image snapshot & timestamp



Support ONVIF compliant cameras

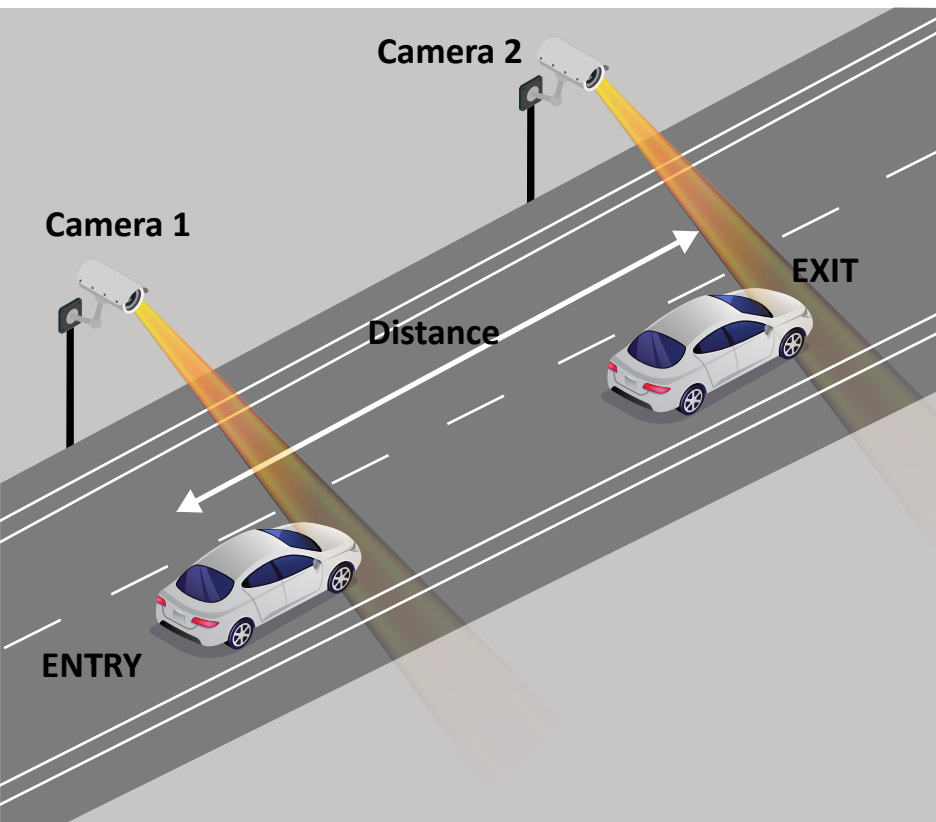


Average speed calculation



Ready to interface with enforcement systems

How ASE works



Average speed enforcement (ASE), also called section control or point-to-point (P2P) speed enforcement works by measuring the amount of time it takes the vehicle to drive between two points and then calculates the average speed of the vehicle.

The vehicle is identified through their licenseplate when entering the enforcement section, and again when leaving it. The vehicles plates are then matched and calculated based on the time interval between these two points.

If the vehicle's average speed exceeded the average speed limit for the length of road, the vehicle will be categorized as speeding.

Optional Reporting Module

The interface displays a live video feed of a toll plaza (Toll SAE Camera 2) with a silver car. To the right, there are two image snapshots of the same car with associated license plate numbers (P1N 8779 and W4875B) and exit times. Below these is a table summarizing vehicle license plates, entry points, entry times, exit points, exit times, and average speeds.

Vehicle Plate	Entry Point	Entry Time	Exit Point	Exit Time	Average Speed
PKG 1261	Toll Teluk Intan	2020-06-02 13:53	Toll SAE	2021-06-02 17:41	3hr 48min
WVF 8776	Toll Bukit Raja	2021-06-02 17:03	Toll SAE	2021-06-02 17:41	38min
P1N 8779	Toll Teluk Intan	2021-06-02 15:10	Toll SAE	2021-06-02 17:40	2hr 30min
CCF 1717	Toll SAE	2021-06-02 17:39	-	-	-
BPQ 7882	Toll Teluk Intan	2021-06-02 14:01	Toll SAE	2021-06-02 17:38	3hr 37min

Live video feed to monitor incidents

Image snapshot for verification

Vehicle license plate summary for quick overview



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