

A high-angle, nighttime photograph of a busy city intersection. The scene is filled with cars and a bus, their lights creating long, vibrant streaks of red, orange, and blue as they move through the frame. The background shows city buildings and streetlights under a dark sky.

Smart Traffic & Roadway Enforcement Engine



Product Overview

This module acts as a complete traffic intelligence engine. It uses standard roadside cameras to read vehicle license plates, detect traffic violations, measure real-time traffic flow, and help authorities manage congestion without requiring expensive road-loop sensors.

Key Performance Metrics

Daytime Reading Accuracy

98% successful optical reading rate

Nocturnal Reading Accuracy

95%+ accuracy utilizing integrated infrared (IR) cameras

Operating Velocity Range

Effective vehicle capture from stationary up to 200 km/h



Core Functional Features

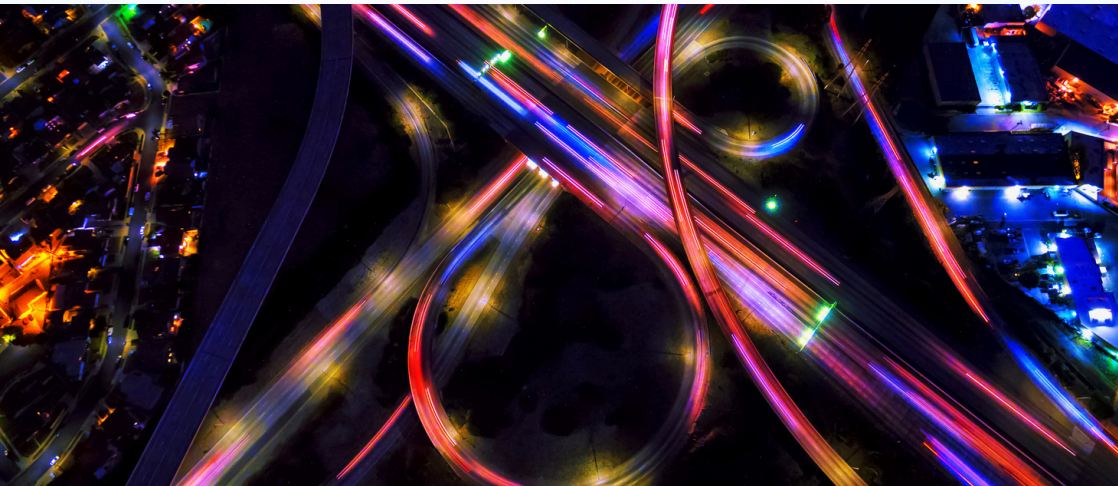
Automatic License Plate Recognition (LPR)	
Multi-Lane Scaling	Monitors up to 12 traffic lanes simultaneously on a single server, making it ideal for highways and tolls.
Vehicle Profile Mapping	Monitors up to 12 traffic lanes simultaneously on a single server, making it ideal for highways and tolls.
Stolen Vehicle Tracking	Automatically cross-checks license plates with hotlists to flag stolen or wanted vehicles in seconds

Automated Violation Processing	
Dangerous Driving Alarms	Immediately routes alarms to security centers with location metadata and reference snapshots on finding a person of concern.
Radarless Speed Measurement	Validates employee credentials at entry turnstiles, tracks VIP guest arrivals silently, and searches for missing or vulnerable individuals.
Safety Gear Audits	Automatically flags motorcyclists driving without helmets, and monitors front-seat occupants failing to wear seatbelts.

Traffic Management Optimization	
Adaptive Traffic Signals	Adjusts traffic light timings based on actual vehicle lines, reducing intersection delays by up to 30%.
Predictive Bottleneck Forecaster	Looks 30, 60, and 90 minutes into the future to forecast gridlock, giving operators time to set up diversions.

Legal Evidence Framework

Court-Ready Citation Packages: Generates secure, tamper-proof eviction files with plate text, vehicle photos, and location data protected by a digital seal.



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