



AI For SMART POLICING



**Exclusively
Designed for
Police
Departments**

Mobile Vehicle Surveillance System (MVSS)

Mobile Vehicle Surveillance System:

AI Based Mobile Vehicle Surveillance System (MVSS) conducts diverse surveillance tasks like ANPR-based Vehicle Tracking, Helmet Detection, and Intrusion Detection on specialized vehicles for operational departments and intelligence services. It serves as a vigilant road observer for enhanced surveillance and protection.

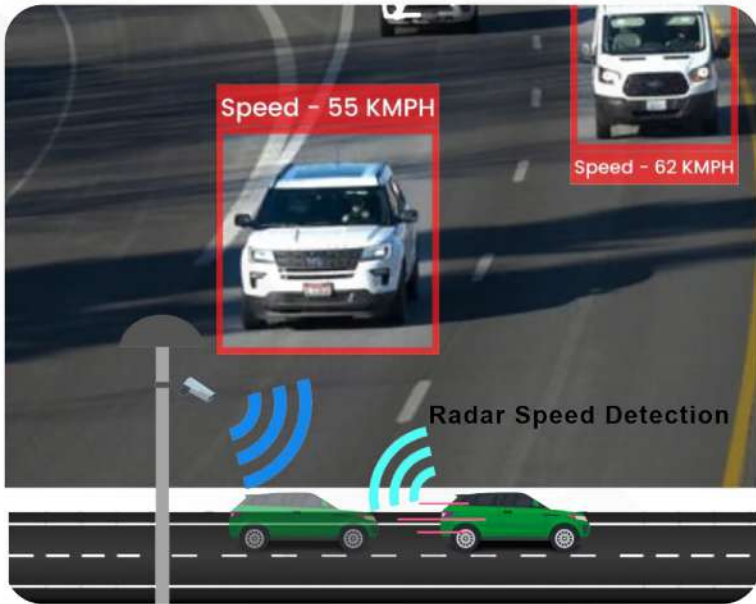
This vehicle-mounted system employs a PTZ camera controlled by a laptop or tablet, enabling operators to adjust the camera's position for targeted surveillance. The user-friendly interface facilitates focus on areas of interest, such as license plates, facilitating effective surveillance and information capture.

Applications:

- ★ Crime Prevention and Investigation.
- ★ Patrol and Response Enhancement.
- ★ Event Security.
- ★ Traffic Monitoring.
- ★ Surveillance in Remote Areas.
- ★ Witness and Evidence Gathering.
- ★ Undercover Operations.
- ★ Search and Rescue Operations.



Vehicle Over Speed Detection System (VOSDS)

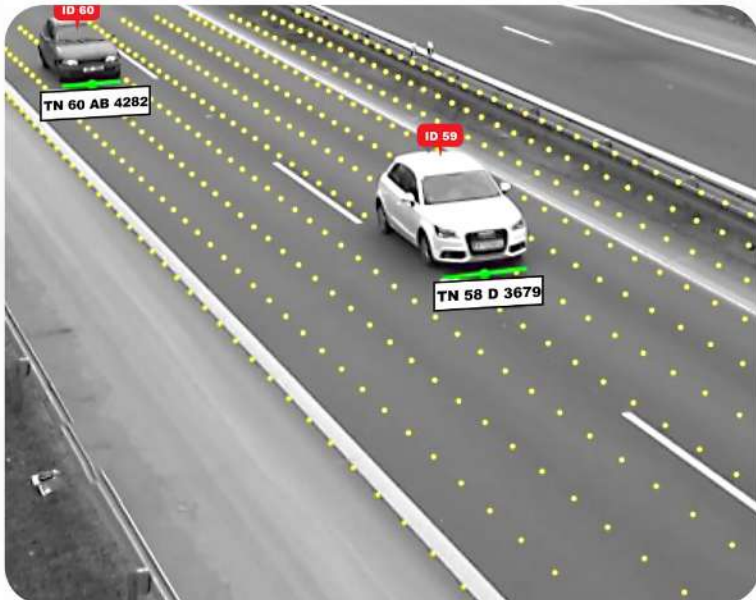


Vehicle Over Speed Detection System

The Vehicle Speed Detection System (VSDS) is a comprehensive solution, featuring an ANPR camera, LED display, and a choice of either a 3D speed radar sensor or advanced computer vision technology. This integrated package operates in real-time, providing efficient and accurate speed monitoring.

This project stands out for its exceptional exclusivity, offering superior accuracy compared to products from other manufacturers. The VSDS sets a high standard in speed detection, delivering precision and reliability to enhance road safety and ensure compliance with speed regulations.

Tracing Car with Automatic Number Plate Recognition



Tracing a Car with ANPR

Police use ANPR (Automatic Number Plate Recognition) technology with specialized cameras for capturing vehicle license plates. Algorithms process images, converting plates to text, and real-time databases flag matches with suspect vehicles, alerting law enforcement instantly. It aids location tracking for investigations and integrates with databases for inter-agency collaboration, strengthening crime prevention efforts. ANPR serves as a deterrent against criminal use of suspicious vehicles, ensuring public safety through effective tracking and identification.

No Helmet Detection



No Helmet Detection

Detecting helmet usage using IP cameras, stationary or vehicle-mounted, use advanced computer vision for helmet detection in safety-critical zones like construction sites and roads. Live video feeds undergo real-time analysis with specialized algorithms, identifying helmets based on unique features. When someone lacks a helmet, instant alerts notify authorities or control centers, enabling effective enforcement of safety rules. This proactive system aids law enforcement and safety personnel in promoting helmet compliance and enhancing overall safety in diverse environments.

ATCC Mounted Camera



ATCC Pole Camera



Automatic Traffic Counter and Classifier

The AI-Powered Automatic Traffic Counter and Classifier (ATCC) consist of a smart GPU-powered kit, camera with batteries and essential accessories. Positioned on poles or vehicles, provide crucial traffic data for law enforcement. They capture real-time traffic information, enabling AI algorithms to detect vehicle counting and classification, monitor traffic flow, and enhance road safety. When integrated with police systems, they enable rapid responses, ensuring efficient traffic management. Additionally, this information aids police in optimizing traffic routes, managing road closures, and maintaining smooth traffic flow during events or emergencies, thereby enhancing overall public safety and law enforcement efforts.

Automate Crowd Counting

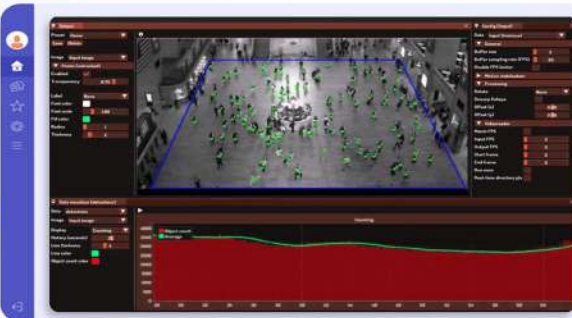
Drone Crowd Counting



Drone Crowd Counting

High-resolution camera drones monitor crowds, sending live video to a central hub. Advanced algorithms count people in real-time, aiding law enforcement decisions for proactive crowd management. Recorded data allows post-event analysis and strategy refinement while adhering to legal and privacy guidelines.

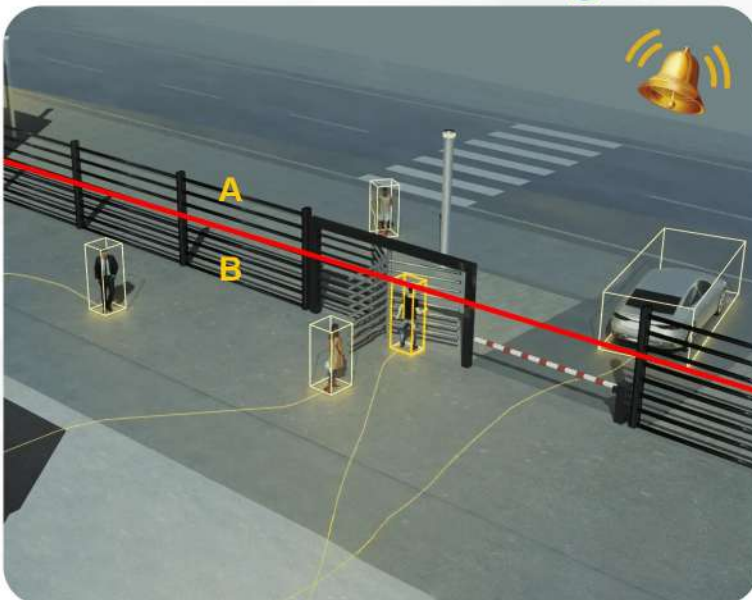
Fixed Crowd Counting



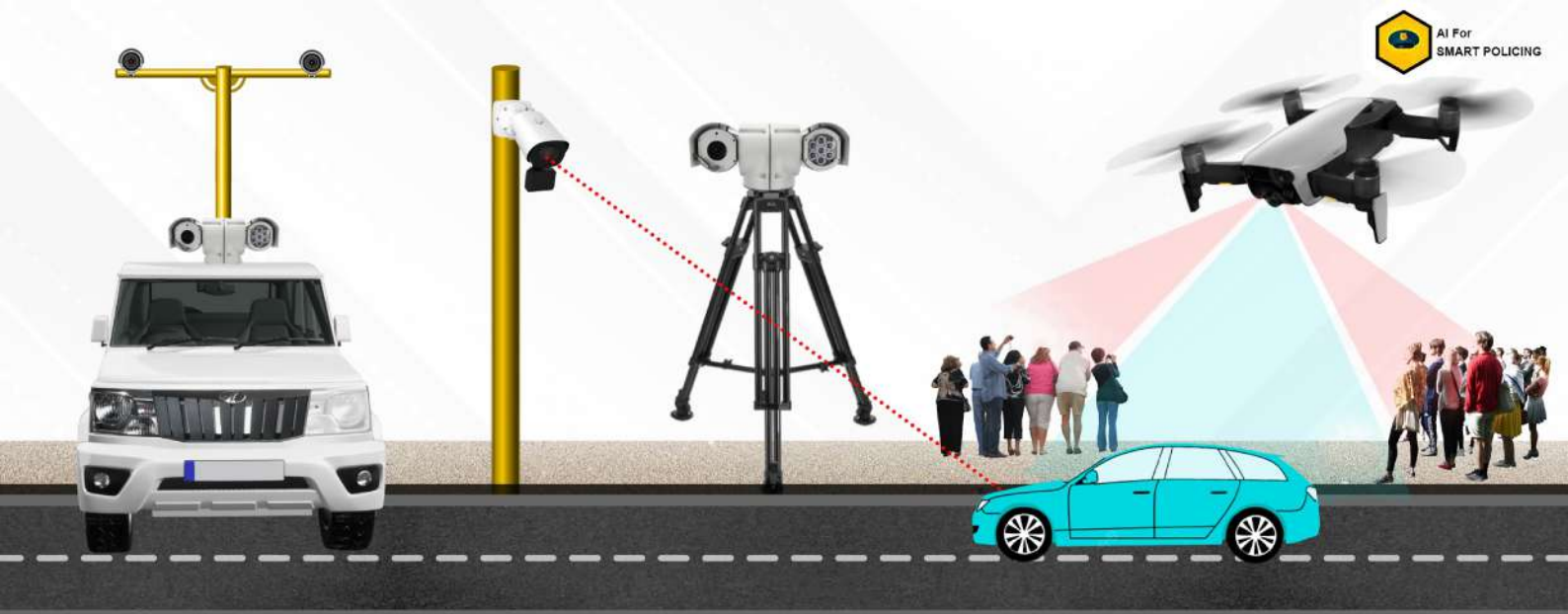
Fixed Crowd Counting

Fixed and vehicle-mounted IP cameras capture and process visual data in crowded areas. Fixed cameras provide real-time footage, while vehicle cameras offer dynamic perspectives. Computer vision algorithms swiftly analyze this data, offering insights into crowd behavior and density. This aids law enforcement and event organizers in efficient crowd management for enhanced public safety at gatherings.

Line crossing and intrusion detection



Line crossing and intrusion detection systems are essential tools for law enforcement, offering enhanced security and rapid response capabilities. These systems use virtual lines to monitor specific areas, triggering immediate alerts when unauthorized individuals cross predefined boundaries. Real-time alerts enable swift responses, allowing law enforcement to assess situations accurately. Integrated with surveillance cameras, these systems provide visual verification, aiding in decision-making. Their visible presence acts as a deterrent, dissuading potential intruders. Customizable and adaptable, these systems are invaluable for safeguarding critical areas and maintaining public safety.



COS AI 's Indicative Components for Smart Policing

Sl.No	AI for Smart Policing Components	Qty.	Unit	Remarks	Pricing
1	COS AI Analytics System Software				
a.	ANPR + ATCC Software (Module - 1)	1	No.	COS AI	Contact
b.	ANPR + Helmet Detection (Module - 2)	1	No.	COS AI	Contact
c.	Tracing Car with ANPR, Crowd Analysis, Line Crossing & Intrusion Detection (Module - 3)	1	No.	COS AI	Contact
d.	Combined above 3 Modules software is Module - 4	1	No.	COS AI	Contact
2	Hardware of COS AI LPU / GPU Kit	1	No.	COS AI	Contact
3	Fixed PTZ Camera 20 X Optical Zoom (4.7 – 94 mm) 150 m IR Night Vision IP (Network)	1	No.	COS AI	Contact
4	For IP Bullet / PTZ Cameras, A Telescopic tube is optional to lift the camera to a greater height position for various purposes.	1	No.	COS AI	Contact
5	PoE Switch TP Link / HIKVISION - Optional for more camera's POE is required	1	No.	COS AI	Contact
6	Internet Dongle (To sent the reports to Head Office from the specified spot)	1	No.	COS AI	Contact
7	To viewing the real time scenario - Laptop or Tablet Latest Specifications.	1	No.	Client	Contact
8	APPA Portable Lithium-ion battery for LPU Kit and Camera power supply (Up to 10 Hours Backup) - Optional	1	No.	Contact	Contact

Terms & Conditions

- ★ The client is responsible for providing the Bolero/Jeep vehicle.
- ★ All costs related to PTZ camera mounting/engineering works are to be borne by the client.
- ★ The Kit and PTZ Camera's power supply must be drawn from the Bolero/Jeep battery, including any necessary wiring, which is the client's responsibility.
- ★ It is important not to park a stationary vehicle within the video coverage area; continuous traffic flow is preferred.
- ★ Not recommended for use in areas with mixed traffic, such as road crossings, traffic signals, or leakage roads.
- ★ If a customer requests usage on road crossings, service roads, leakage roads, etc., a separate product should be explored.

 **COS AI** – AI Powered Intelligent Transportation System Provider

We also specialize in other smart policing solutions, including Facial Recognition, Suspect Tracking, Traffic Violation Detection, Object Detection, and Cross-Camera Tracking. Additionally, we can tailor our systems to meet specific requirements.

Please contact us or visit www.cosai.in for more information.



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