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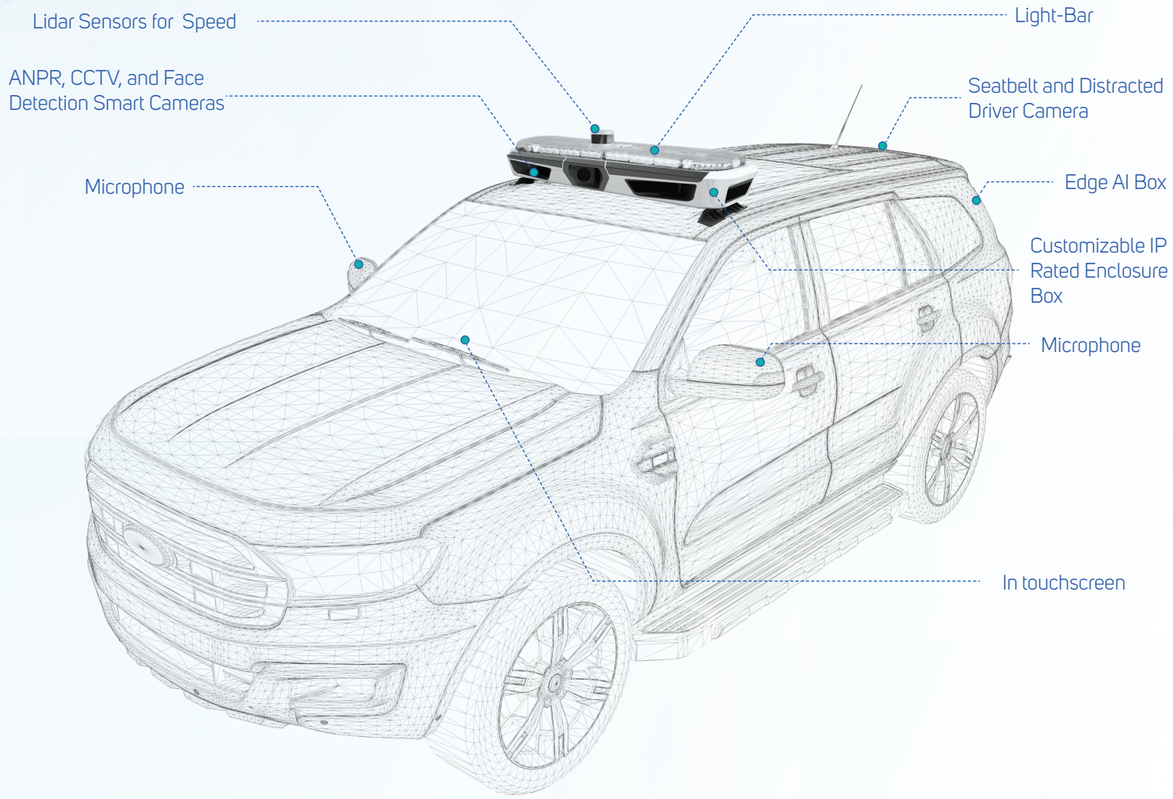
TATWEER

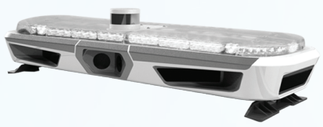
INTELLIGENT
PATROL VEHICLE

Intelligent Patrol Vehicle (IPV) is an integrated solution customized to assist and empower security, law enforcement and crime prevention efforts.

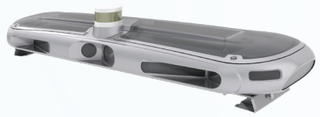
In-Vehicle System

A comprehensive structure of cutting-edge sub-systems available to the officers in the patrols through a feature-rich touchscreen interface. System provides various functionalities including:





Model No: TIEL20EP-S



Model No: TIEL20EP-I

Model No: TIEL20EP-V

Speed Enforcement

360 Laser beams used for detecting, classifying, and tracking vehicles around the patrol.
Timely triggering of the ANPR camera with accurate detection during the movement or stationary mode.

Facial Recognition

Real-time, high-accuracy, simultaneous multiple face detection & recognition to identify wanted person near the patrols.

360-Degree Video and Audio Surveillance

Ultra-wide-angle surveillance up to 360 degrees around the patrols with full HD of live streaming and recording with playback features.

Realtime Dashboard

Comprehensive dashboard with real time information from alerts, violations, command and control system messages and system health status.

Suspected Vehicle

Law Enforcement Officer, through the In-Vehicle System, can add / mark a vehicle as a suspected one and request in the central office system to consider that particular vehicle as a wanted vehicle based on its record or actions.

Mobile ANPR

Accurate readings for up to 5 concurrent lanes in various light conditions (Day & Night).
System uses the ANPR data to identify flagged vehicles and truck permissions and expired license plates.
The OCR engine supports wide range of international plate number (eg: Arabic numeric).

Health Check & Audit Logs

Monitor the status of the system components.
Monitor all officers' activities and actions on the generated alerts and violations through both command and control system and the In-Vehicle System.

Live Tracking

Live GIS based visualization of patrol location
available in the In-Vehicle System,and live locations will be sent to the Command and Control Application.

Seatbelt Violation and Distracted Driver Detection

A high-resolution camera that accurately detects drivers with no seat belts or distracted drivers (e.g. Drivers using mobile phones) using deep learning algorithms for recognizing the violators.

Violation and Alerts Records Management

All violations and alerts are automatically detected from the cameras or the system in the patrol and it will be reflected in the real time dashboard.

Emergency Event System

Monitor and record all emergency events through In-Vehicle System once a panic state is activated by turning on the lightbar or by pressing the emergency button.

Multi-User Access

Multi officers can access the In-Vehicle System session at the same time with option to select the primary officer on the patrol. All actions on the alerts and violations will be logged for that primary officer user.

Command and Control Application

Remotely provides the operator from the Command and Control Center with a wide range of functions embedded into a platform designed to ensure the smooth flow and management of surveillance and crime detection operations.

- Central Dashboard
- Real-Time Insights into Patrol's Activities
- Instant Alerts from In-Vehicle System
- Broadcast Messaging to In-Vehicle System
- Patrol's KPIs Monitoring and Control
- In-Vehicle Health Check and Monitoring
- Audit Trails Records and Logs
- Integration-Ready with Legacy Systems
- Access to Issued Violations with GIS Based Heatmaps
- Comprehensive Search with Various Filters and Sorting Features
- Data and Video Archives with Search Capabilities