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Transport / Highway

Increase road safety and traffic flow using AI-driven video analytics

With more vehicles on the road, traffic accidents are one of the leading causes of injury and death. Combining your existing security infrastructure with AI-driven video analytics helps authorities, traffic planners and highway operators to systematically monitor and understand road users' behavior.

Gaining valuable insights from AI-driven video data optimizes traffic flow whilst minimize the risk of accidents - automatically and in real time.
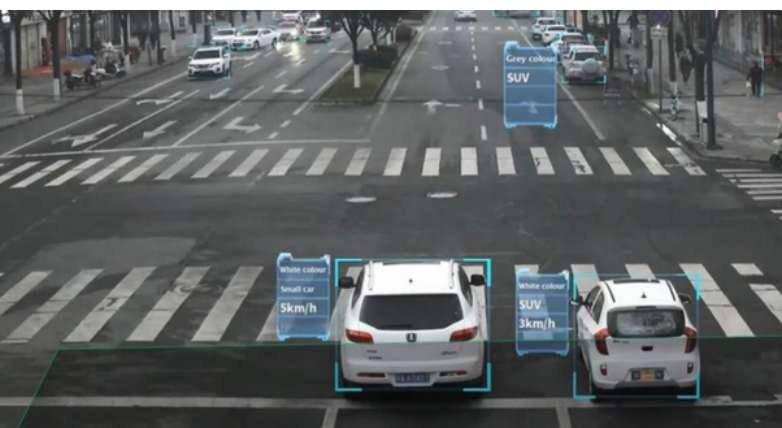
About 1.3 million people die on the world's roads and 20 - 50 million are injured every year. Road traffic crashes are a major cause of death among all age groups. - warns the World Health Organisation.

Next-generation traffic monitoring & control is here with AI-driven video analytics

FEATURES INCLUDE

Real Time Monitoring and Accident Alert

- Monitor overall traffic network status, volume & events
- Easily focus on individual vehicles with alert for current status and tracking its history.
- Detect traffic violations, e.g. illegal parking, speeding, lane changing, going the wrong way or taking a wrong turn etc.
- Special vehicle alert and tracking
- Abnormal road event, e.g. Break down or goods on the road
- Road event alert, e.g congestion, fire, traffic strike
- Operation monitoring, e.g. weather condition road maintenance
- System Image Quality Inspection to monitor operating status or any abnormalities to the system automatically.

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Intelligent Command System

- Fast reaction and fast new solution to take actions.
- Planning for the rescue team the best path into the accident area, and avoiding the traffic jam.
- Planning dispatch the other public traffic flows when accident happen or traffic jams.
- Release information via info board, SMS to redirect the public traffic to new solution.
- Remote control for the tunnel, lighting, redirecting gate etc.

Video Search & Investigation Across Roads

- History records with filter of vehicle attributes, e.g. model, color, plate number.
- Search vehicle similarity to trace long-term tracking history across multiple cameras and roads, to track terrorism, criminals or other suspects' vehicle.
- Path tracking and analytics of vehicles.
- Detect hidden evasion behaviors, and collect effective evidence chains.

Car Park Vehicle Management

- Vehicle detection, tracking to monitor parking spot, speed, loitering etc.
- Combine vehicle plate recognition to access control, parking spaces, auto billing.

Operation Analytics

- Daily monitoring of Traffic volume, speed, congestion, paths, for business report.
- Traffic analytics and prediction for management decision.
- Support to plan and adjust the traffic lights, path setups, zebra crossing, parking policy, speed policy guidance to improve traffic flow smoothness and safety.
- Support budgeting about traffic tolls, and maintenance cost.

About Us

Our award winning AI models and video analysis increases the safety of any environment, and the operational efficiency of both private and public sector organisations. Our video analytics works with existing video or CCTV systems to keep workers, spaces and valuable assets safe along with buildings secure.

We apply artificial intelligence and machine learning onto existing IP CCTV systems to transform video content into actionable insights for rapid review with real-time alerting.

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