

CASE STUDY

PUBLIC TRAFFIC SAFETY OPTIMIZATION

REAL-TIME EMERGENCY RESPONSE REDUCED BY 4 MINUTES

By using automated incident classification and real-time alerts, VideoGuard helped a U.S. city optimize traffic safety and reduce emergency response time by four minutes—saving lives and improving road efficiency.

AT A GLANCE



4 MINUTES

REDUCTION IN REAL-TIME
EMERGENCY RESPONSE



AUTOMATED INCIDENT
CLASSIFICATION
AND ALERTS



IMPROVED TRAFFIC
FLOW AND SAFETY
CITYWIDE



SMARTER DECISIONS,
FASTER RESPONSE,
SAFER ROADS



THE CHALLENGE

- Traffic incidents often go undetected or are reported late
- Delays in emergency response increase risk and congestion
- Manual monitoring leads to missed events and slower decisions
- Lack of real-time situational awareness across corridors



THE OBJECTIVE

- ✓ Detect and classify traffic incidents in real time
- ✓ Automatically alert the right responders faster
- ✓ Reduce emergency response time across the city
- ✓ Improve traffic flow and public safety outcomes



THE VIDEOGUARD SOLUTION

VideoGuard deployed AI-powered video analytics at key intersections and corridors.

The system automatically detects and classifies incidents—such as crashes, wrong-way drivers, stopped vehicles, and pedestrian hazards—and sends real-time alerts to traffic management and emergency responders.

TECHNOLOGY USED



AI-POWERED ANALYTICS
Detects and classifies incidents in real time



REAL-TIME ALERTS
Instant notifications to traffic operations and responders



EDGE PROCESSING
On-device intelligence for faster detection and reliability



CITY INTEGRATION
Seamless integration with traffic management systems and 911 dispatch



SECURE CLOUD PLATFORM
Centralized data, video storage, and performance dashboards

HOW IT WAS USED



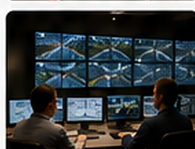
MAJOR INTERSECTIONS
Monitors high-risk intersections to detect and classify incidents in real time.



HIGHWAYS & CORRIDORS
Detects crashes, stopped vehicles, wrong-way drivers and congestion.



TRAFFIC OPERATIONS
Provides live situational awareness to traffic management centers.



EMERGENCY RESPONSE
Automatically alerts the right responders for faster, coordinated action.

THE OUTCOME

4 MINUTES
REDUCTION IN REAL-TIME
EMERGENCY RESPONSE



FASTER RESPONSE
Reduced emergency response time by 4 minutes on average.



SAVED LIVES
Faster response leads to better outcomes and fewer severe incidents.



IMPROVED TRAFFIC FLOW
Fewer delays and smarter traffic management citywide.



DATA-DRIVEN DECISIONS
Actionable insights to improve safety and plan for the future.

“ Automated incident detection and real-time alerts have cut our emergency response time by four minutes. That's the difference between a crisis and a save.

— City Traffic Director

