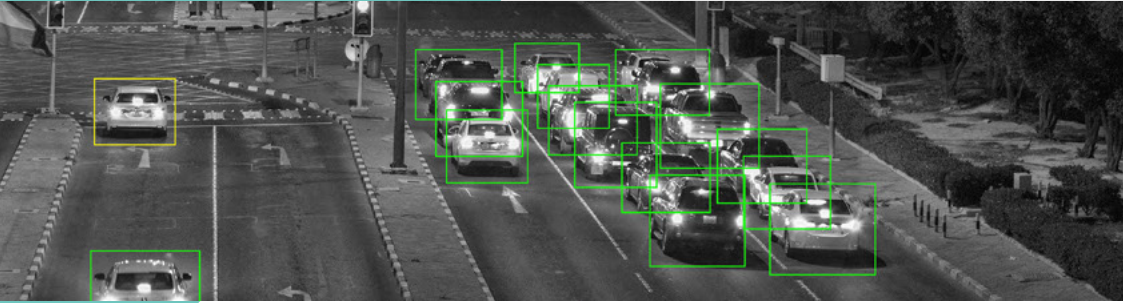# HIGS

HIGS increases highway visibility, accelerates emergency responses, aids highway patrols and supports police work.

Advanced Highway Surveillance

In highway surveillance, tasks such as detecting violations, preventing accidents, and managing incidents are critical, yet traditional surveillance methods often prove insufficient. HIGS was developed to address these challenges head-on. It represents a paradigm shift in highway surveillance through the utilization of extreme high-resolution panoramic cameras with edge AI, and supported by a purpose-designed software environment. HIGS facilitates real-time decision-making, enables remote operations, and provides comprehensive evidence for incident investigations.

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How can you benefit by using HIGS?

- HIGS enhances highway visibility by covering extensive highway sections using only a few 100-320 MP Panorama Cameras.

- It reduces operational costs by providing virtual patrol tours that can be performed remotely, seamlessly navigating among zoom presets of different overlapped camera images.

- The system assists operators in obtaining instant visual information of any covered area by utilizing interactive schematic maps for image navigation.

- The solution provides Real-Time Decision Making Support as it always highlights the most urgent situation on screen.

- It provides reliable visual evidence of any occurred incident or accident.

- HIGS increases situational awareness by providing advanced alert and automatic zoom functions.

- HIGS offers AI-powered, image-based traffic counting.

- Far less operators are needed to manage the highway surveillance system, and also less patrol units are sufficient to be on the road physically.

- Logipix hardware components are capable of self-maintenance, thanks to their built-in self-cleaning and deicing systems.

- Our engineers have developed leading-edge technologies ensuring long-term system durability, avoiding physical and technological obsolescence.

AI-powered highway surveillance

Logipix AI technology revolutionizes highway surveillance, enhancing monitoring and road protection. The HIGS system detects and alerts authorities to suspicious activities, provides evidence of violations or accidents, and deters crime. Logipix Panorama cameras, together with edge AI, detect various unsafe activities, including speeding, lane violations, and wrong-way driving, enabling real-time tracking and rapid law enforcement response. As a result, HIGS optimizes traffic flow, reduces congestion, and improves road safety.

Remotely controlled virtual patrol tours

HIGS streamlines highway patrol with virtual tours using 100-320 MP Panorama Cameras. Operators remotely monitor road conditions and perform duties utilizing the overlapped panoramic camera images. The function allows them to move virtually among zoom presets, similar to navigating a street view application. Manual and automatic tour options are available. The extreme high resolution enables detailed observation for preventive and reactive maintenance. The interactive schematic map facilitates navigation among highway points, synchronized with camera zoom positions. The Logipix virtual patrol is a game changer, significantly enhancing efficiency and cost-effectiveness, while ensuring road safety.

VIRTUAL PATROL TOUR

INCIDENT DETECTION

LOCALIZATION

TRAFFIC COUNTING

CLASSIFICATION

INTERACTIVE MAP

OBJECT HISTORY

OBJECT TRACKING

INCIDENT DETECTION

ABOUT LOGIPIX

Logipix is among the most innovative technological companies in the world, developing and manufacturing smart video monitoring solutions specifically for large-scale projects and wide areas. Our company is deeply engaged with the constant research and development to provide complete, intelligent systems using the latest microelectronic and computer technology available, while considering the specific characteristics of different application areas. With many years of experience at related fields and diverse industries, Logipix can be your trusted company, who contributes to create safer, sustainable and more efficient environments on highways.