



TOLLVISION Vehicle Identification System

Real-time vehicle identification in non-stop, high-speed traffic



The TollVision system identifies vehicles in heavy, high-speed traffic for violation enforcement, video tolling, AMBER Alerts and other applications

Toll roads and highways can be a non-stop blur of heavy, high-speed traffic. SAIC's TollVision system can help sort it all out by identifying vehicles in real time. With license plate numbers and vehicle images from the TollVision system, toll and traffic authorities can:

- ◆ Collect tolls on the open road with or without RFID
- ◆ Recover revenue from toll violators at toll plazas and ORT sites
- ◆ React quickly to repeat toll violators, AMBER Alerts™ and other wanted vehicles
- ◆ Encourage safety and compliance through round-the-clock surveillance

Combining SAIC's Exact Reader real-time OCR, Exact Exposure® camera technology, and efficient LED lighting, the TollVision system can quickly identify vehicles traveling up to 100 mph (160 km/h) to support real-time processing in the lanes or centralized batch processes.

TollVision systems are operating in more than 1,000 lanes at some of the largest tolling facilities in North America.



TollVision technology: innovative cameras, lighting and OCR for efficient, reliable vehicle identification

Highlights

- Recover revenues from violators at toll plazas and ORT sites
- Support open-road video tolling with or without RFID
- React quickly to repeat toll violators, AMBER Alerts and other wanted vehicles
- Capture reliable visual evidence to support legal prosecution
- Now operating in more than 1,000 lanes across North America; backed by SAIC's commitment to the industry

TollVision vehicle identification technology: a fast, versatile solution

SAIC's TollVision system is a high-speed vehicle identification system for toll violation enforcement, video tolling, AMBER Alerts, and other traffic applications. The TollVision system features the following technologies:

- ◆ **Exact Reader OCR.** SAIC's OCR technology can read license plate numbers in seconds for real-time operations, or in efficient batch mode for economical overnight processing. Featuring custom tuning for local plates, the TollVision system typically achieves OCR accuracy of 90 percent or more. Real-time OCR capability can be easily added to existing SAIC TollVision systems.
- ◆ **Exact Exposure® cameras.** SAIC's proprietary Exact Exposure technology optimizes the exposure for every shot, providing superior image quality for OCR and visual identification. SAIC offers Exact Exposure cameras in color or monochrome, visible light or infrared, and progressive scan or interlaced.
- ◆ **LED lighting.** LED lighting provides clear visible or infrared illumination for consistent image quality regardless of natural light conditions. And its efficiency, reliability and long life make it ideal for real-world traffic operations.

Working with local traffic authorities

The TollVision system communicates with the traffic authority's lane controllers and host system through SAIC's field-proven interface. The TollVision system creates a record of every transaction of interest, including vehicle images, OCR results, and data from the host system — helping authorities accurately identify violators and provide reliable visual evidence to support legal prosecution.

Support at every turn

To help implement the TollVision system and keep it running, SAIC offers services for system design, installation, performance tuning, and 24/7 tech support and maintenance.

SAIC and TollVision: leaders in the field

SAIC's TollVision systems are operating in more than 1,000 lanes at some of the largest tolling facilities in North America. Backed by SAIC's significant investments in technology, production and implementation, the TollVision system brings a unique combination of performance and economy to legacy and next-generation traffic applications.

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