



## TOLLVISION LED illuminators

Efficient, reliable lighting for vehicle-imaging systems



SAIC's LED lighting enables the TollVision system to capture clear images in high-speed traffic — economically and reliably

New LED technology is revolutionizing lighting applications of every kind. Now SAIC's TollVision system is bringing the LED revolution to traffic imaging.

The TollVision system offers a pair of LED illuminators for license plate and vehicle imaging:

- ◆ **Integrated.** The integrated illuminator (above left), built into the camera housing, provides "on-retro" lighting, aligned with the camera, for clear, bright plate images for OCR or manual review.
- ◆ **Stand-alone.** The stand-alone illuminator (above right) can be used on-retro for bright license plate images, or off-retro for images of the entire vehicle.

Both LED illuminators provide bright, even lighting for clear images of vehicles traveling up to 100 mph (160 km/h). Both illuminators are exceptionally power-efficient; the integrated illuminator consumes just 14 watts, compared to 1,000 watts for equivalent incandescent lighting. And to help reduce costly lane closures and dangerous maintenance work, both illuminators have a very low failure rate and a lifespan of 40,000 hours.



**Integrated LED lighting provides excellent license plate images and efficient installation**

### Key Features

- High-speed image capture in heavy traffic at 100 mph (160 km/h)
- Integrated into the camera housing, or a stand-alone unit
- Visible spectrum or infrared
- Highly power-efficient: uses as little as 14 watts
- High reliability and long life to reduce lane down-time
- NEMA 4X enclosures

### The perfect partner for TollVision Exact Exposure® cameras

The TollVision system's LED lighting and Exact Exposure cameras work together to capture clear images, even in heavy, high-speed traffic. Both LED illuminators provide an even, precise lighting pattern in a brief, synchronized strobe for optimal imaging. And both are available in visible light for OCR and manual review, or infrared for OCR without distracting the driver. The table below provides specifications for both illuminators.

For added practicality, installing the integrated illuminator can be simpler since it uses the same mounting and power supply as the camera. And the slide mechanism built into the housing provides easy access to the camera, LEDs and other internal components for fast service without disturbing the alignment of the housing on its mount.

### 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.

|                              |   |
|------------------------------|---|
| <b>Field of illumination</b> | Integrated: 7 ft W x 5 ft H at 40 ft (2.1 m x 1.5 m at 12 m)<br>Stand-alone: 9 ft W x 7 ft H at 40 ft (2.7 m x 2.1 m at 12 m) |
| <b>Power</b>                 | Integrated: 12–24V DC, 14 W<br>Stand-alone: 12–24V DC, 35 W   |
| <b>Operating temperature</b> | –40° to 165° F (–40° to 70° C)  |
| <b>LED lifespan</b>          | 40,000 hours  |
| <b>Maximum duty cycle</b>    | 6.2%  |
| <b>Maximum beam-on time</b>  | 1 ms  |
| <b>Video formats</b>         | NTSC, PAL or progressive at 7–60 frames per second  |
| <b>Enclosure</b>             | NEMA 4X weather-resistant   |
| <b>Cable</b>                 | 12 ft (3.6 m) cable for power, data and sync  |

### SAIC Security and Transportation Technology

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