

DriveSafe™ Automated Enforcement

The DriveSafe camera system combines industry leading technology and advanced vehicle detection to reduce aggressive driver behavior, making our streets safer without an increase in workforce.

Traffic Safety Solutions

DriveSafe is a photo enforcement solution used to track moving violations. While its primary use involves red light running and speed enforcement, it is capable of handling more unique challenges like pedestrian tracking or rail-crossing applications. Our solution is uniquely flexible: mobile or fixed installation, in-ground or virtual detection, wired or video-based phase detection. DriveSafe can be tailored according your needs. It adapts to you—not the other way around.

The system is a fully-integrated, purpose-built force multiplier; it focuses on traffic infractions, enabling your agency to focus on more egregious crimes. We designed DriveSafe to be compact and aesthetically non-intrusive, to fit within your existing cityscape.

Capture more violations with DriveSafe

Concurrent violations, adverse weather conditions, or inadequate lighting conditions all impact system reliability. DriveSafe is equipped with a multi-core processor and motion-blur technology to handle difficult to enforce scenarios such as vehicles in parallel, in a line or multiple vehicle movement, and multi-phase violations. Adverse weather conditions and inadequate lighting conditions are managed by adjusting the camera settings, enabling the system to capture violation images in various environments.



DriveSafe™ Automated Enforcement

DriveSafe Highlights

- High megapixel digital cameras
- Wide Dynamic Range, High-Definition video
- Real-time video analytics
- Archival video storage
- Wide selection of vehicle detection options
- Encrypted and secure violation data
- Remote pan / tilt capability

Ensuring a Secure Chain of Custody

Using a 22 megapixel digital camera and advanced 24GHz tracking radar technology, the system records clear violation images at speeds ranging from stop-and-go to 186 mph. DriveSafe captures up to four violation photographs and a 12-second video clip illustrating before and after the violation imagery. Configurable event information is superimposed simultaneously at the moment of violation capture on the images, creating hardened evidence.

We use encryption software to secure violation data from evidence tampering. Our encryption and security standards

meet the Advanced Encryption Standard (AES) established by the U.S. National Institute of Standards and Technology (NIST).

Flexible and Reliable

We designed the system with three different types of vehicle detection to meet specific intersection requirements. Utilizing wireless in-ground vehicle detection or tracking radar provides the most flexibility to achieve maximum enforcement.

To ensure years of reliability, the DriveSafe system is built as an integrated design. All of the system components have been integrated at the board level and covered with a conformal coating to protect them from humidity, dirt, chemicals and extreme temperatures. This allows all of the components to survive a temperature range of (-22° to 158°F) with the only exception being the 22MP camera imager that is heated and cooled by a thermo-electric heater/cooler to maintain the CCD within optimal range for image quality. The integrated design minimizes system components and wiring which contribute to increasing reliability.

System Dashboard and Analytics

DriveSafe integrates with Xerox® Police Business Intelligence (PBI) platform for real-time analytics via the dashboard with drill-down data discovery tools and performance indicator driven alerts.

The dashboard is tailored to the user. Based on their system profile, PBI will present data visualizations that are available in tabular, graphical or geocoded views. The user can also drill down on refinement criteria based on geo-spatial, chronological, and/or operational data. Furthermore, users can schedule performance indicator alerts to keep them informed. Alerts can be displayed on any browser-based system, or received via mobile device, email or SMS. For example, users can schedule an alert to notify them when an egregious violation above a certain speed threshold occurs.

Want to know more about our public safety solutions? Give us a call at 855-331-4572.

The screenshot displays the PBI System Status dashboard. At the top, there are navigation tabs for System Status, System Performance, Traffic Volume, and Traffic Violations. The main content area is titled "System Status Overall system status report". On the left, there is a map of Chicago with a red location pin. On the right, a video feed window titled "2400 West Chicago Ave" shows a white bus at an intersection. Below the video feed is a table with the following data:

Type	Asset	Approach	Last Response Time	IP Address	History	Feed
DS.RL	1943		04/30/14 14:07	10.40.167.9		

Advanced Operations Dashboard

DriveSafe™ Red Light Camera and DriveSafe™ Speed Camera

Camera System

Format

- JPEG (Encrypted)

Video Details

- Wide Dynamic Range (WDR)
- HD Format
- 10 – 60 FPS

Still Image Capture Rate

- Up to 10 FPS

Still Image Resolution

- 22.1 megapixels

Camera System Housing

Dimensions

- Height: 32"
- Width: 15"
- Length: 20"

Weight

- 70 lb.

Construction

- Aluminum

Night Flash

Input Voltage

- 115 – 140 VAC

Recycle Time

- .22 – 1.0 s

Flash Duration

- Up to 1/3300 s

Flash Power

- 18 – 1800 Ws

Dimensions

- Height: 11.0"
- Width: 7.0"
- Length: 7.0"

Weight

- 2.9 lb.

System

Violation Types

- Red Light
- No turn on red
- Speed on Green
- Mid-Block Speed
- Crosswalk
- Block the Box
- Rail Crossing

Detection

- Wireless in-ground vehicle detection
- Optical Vehicle Detection
- Micro Dynamics Radar (lane specific)

Max Lanes Monitored

- 6

Max Signal Phases Monitored

- 3

Input Voltage

- 90 – 240 VAC
- 10 – 14 VDC

Video Clips Length

- 6 – 14 s (WDR / HD quality) – Ultra low light capable, crisp clear video evidence

Surveillance Video Storage Length

- 30 – 60 days

Surveillance Video Format

- FLV
- AVI
- H264

Ethernet Requirements

- Integrated Cellular (4G)
- Broadband

Remote System Connectivity

- Web-based
- Mobile Device Friendly
- Remote System Testing

Troubleshooting

- System fault emailing service to administrator.

Heating and Cooling

- Thermoelectric Unit
- Electronically Controlled
- Operating Range of (-30°C - +70°C)

Options

- Solar Power
- Lithium Battery Backup
- Acoustic Gun Shot Detection
- GPS
- Motorized Pan Tilt Head

Contact

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