



# REDFLEX<sup>®</sup> rail

## Railroad Crossing Monitoring System

**REDFLEX** rail is a red light violation monitoring system that can predict whether or not a vehicle will stop for the flashing red light at railroad crossings. It detects vehicles that drive around the lowered boom. It provides gridlock enforcement capabilities that capture images of all vehicles that stop within the violation area after a configurable time period. And it is able to capture high-resolution plate images of multiple vehicles in the event that more than one vehicle is stopped within the violation area.

The industry-leading system features fully configurable, time-into-red time detection and vehicle photograph sequence and timing. It also offers fully configurable, independent speed limit and detection threshold settings. Inductive, magnetic, and video loops are available. An audio microphone system is also available to record the bells or whistles from approaching trains.

**REDFLEX** rail provides outstanding situational awareness and applications that manage the most challenging detection circumstances. The high-quality data it yields has consistently proven legible in judicial systems across the country.

Redflex Traffic Systems, Inc. is the industry leader in vehicle monitoring and enforcement services for government, police, and traffic departments across the United States. Our photo enforcement systems feature multiple integrated and synchronized high-resolution digital cameras to provide maximum flexibility for your unique needs.



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## Railroad Crossing Monitoring System

- Can monitor up to six lanes of traffic simultaneously
- Offers isolated connectivity to railroad traffic control system
- Can monitor red light violations, driving around boom gates, and gridlock-causing offenses
- Provides remote system access for adjustments, maintenance, and transfer of incident data and statistics
- Utilizes all broadband methods of communication, including cable, DSL, ISDN, wireless broadband (EVDO), point-to-point, and fiber networks
- Cisco VPN hardware, managed by trained staff to ensure high security
- Secure onsite storage and continuous operation during communication outages
- A variety of vehicle detection systems available, including inductive loop, piezo, LIDAR, infrared, and video loop technologies
- CA vehicle code-compliant, ultra-fast visible strobe for full-color imaging. IR capabilities also available
- SMARTcam™ software, industry-leading functionality, stability and flexibility. Provides multiple auxiliary camera capabilities to gain multiple fields of view (rear, front, multi-front photography)
- SMARTscene™ subsystem for full-motion video before and after incident, providing situational awareness. Patent-pending combination of high-resolution digital stills with full-motion video produces irrefutable evidence



- SMARTscene Audio™ gives the system the capability to record what the offending driver might have heard
- SMARTscene Live!™ provides live streaming video to browsers, using high-performance compression algorithms and multiple simultaneous camera views. Also provides video recording capabilities
- Dynamic Pixel Utilization – more pixels are used in areas where they are more effective through the use of multiple cameras and multiple fields of view
- Health monitoring system ensures proactive maintenance to resolve potential field operation issues
- Multiple digital still camera options are available to suit multiple applications, including 2M, 6M, 10M, 11M and 12M pixels with wide dynamic range, fully automatic iris/aperture, gain and light-metered override functions
- Traffic data packages provide all the types of vehicle count statistics that can be obtained online



### Data Storage, Security, Effectiveness

All systems are username and password protected, and equipment features tamper-proof locks. Incident data is digitally signed, and information and remote connectivity are encrypted. Clear digital images and motion video show the status of the traffic signal and the location of the violating vehicle inside the intersection before and after the incident. The SMARTops™ back-office data processing center provides turnkey solutions for data, violation, court evidence, and violation notice processing. Wireless or hardwired Internet capabilities are provided.

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