



REDFLEX[®] rail

Product Overview

REDFLEXrail is a level crossing violation monitoring system that detects and enforces offending vehicles at railway crossings. The system detects vehicles that disobey red lights, vehicles that drive around boom gates, and provides gridlock enforcement capabilities that capture images of all vehicles that stop within the violation area after a configurable time period (regardless of the signal or boom gates). The system also enforces speed at the level crossing site.

The system combines high resolution images with video of all offences to ensure enforcement and understanding of driver behaviour at the level crossing.

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

REDFLEXrail 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 throughout the world.

Redflex Traffic Systems Pty. Ltd. is the industry leader in vehicle monitoring and enforcement services for government, police, and traffic departments globally.

Redflex has maintained its market leader position by providing customers worldwide with a significant degree of competency, knowledge and subject matter expertise to ensure enforcement program success.

REDFLEXrail

- Monitors red light violations, driving around boom gates, and gridlock-causing offenses
- Monitors Speed offences
- Can monitor up to six lanes of traffic simultaneously
- Offers isolated connectivity to railroad traffic control system
- Provides remote system access for configuration, 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
- 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 fullcolor imaging. Infrared 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™ Video capability 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 including warning bells and train whistles
- 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

Specific Redflex services are:

Full Vertical Integration Solutions: Redflex provides customers with the flexibility to create an automated enforcement solution that meets the unique needs and requirements of the contracted agency.

Full Vertical Integration Solutions includes:

- In-house manufacturing of each camera unit
- In-house technicians and maintenance teams
- In-house research & development department
- In-house customer service department

Complete Program

Redflex can provide all of the required infrastructure, support, hardware, software and services to ensure successful operation throughout the lifetime of the photo enforcement program.

Product Overview

- Back Office Enforcement Processing Software
- Fixed Location Motor Vehicle Speed Cameras
- Red Light/Speed Cameras
- Bus Transit Lane Camera Systems
- Toll Camera Enforcement Solutions
- Mobile Motor Vehicle Speed Cameras
- Point-to-Point Average Speed Solutions
- Weigh-In-Motion Solutions
- Rail Crossing Enforcement Solutions

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Typical REDFLEXrail installation

