



# REDFLEX<sup>®</sup> point-to-point

## Product Overview

Redflex's Point-to-Point solution provides speed enforcement and statistical information for vehicles traveling from one point to another. The system works by knowing the distance between the two points and the time it would take to travel that distance legally. Vehicle details (including image and time) are recorded at each point, and are later correlated at a central server to determine the average vehicle speed. Incident files are created for both local and point-to-point speeding vehicles. Optical character recognition (OCR) is used to automate the vehicle correlation process. The central server utilizes a relational database to store summary information, from which statistical information is extracted.

Redflex Point-to-Point digitally photographs every vehicle as it crosses the first point-to-point station utilising either inductive or non-intrusive technologies. It uses a high-repetition industrial technology to ensure a sharp image of fast moving vehicles. A non-intrusive infrared flash is used to illuminate the vehicle and number plate when the ambient light is insufficient. Monochrome cameras are typically employed as they are generally more sensitive than colour cameras, and infrared photography results in monochrome images anyway. There is one dedicated camera and flash per lane.



**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.**

### OCR Technology

Captured image and details are temporarily stored on the camera computer hard drive, and placed into a queue for further processing. There is one queue for each camera.

OCR technology is used to process the image and details. The output of the OCR process is text data identifying the vehicle details and number plate. This summary data is downloaded by the central server and loaded into a database.

### High Resolution Camera System

Redflex's high-resolution camera system enables the positive identification of an offending vehicle from a single close-up photograph.

Configurations of 6 or 11 megapixel camera resolution gives up to four times the viewing area of standard photo enforcement cameras.

### Vandal Resistant/ Wide Environmental Tolerance

Redflex's Photo Enforcement (fixed speed) systems use a closed-system enclosure that does not ingest outside air. This makes the system resistant to fire bombing, and

chemical attack and enables its use in harsh environmental conditions (i.e. salt environments, pollution, smog etc.). REDFLEXspeed is installed and operating in a wide range of climatic extremes from summer in the Middle East and the Arizona desert to the harsh winter conditions in Toledo, Ohio.

### Six-Lane Operation

REDFLEXspeed is able to enforce across a full six lanes of traffic from a standard single camera enclosure and speed measurement detection device.

### Illumination

Redflex high resolution camera systems work with a wide range of white light or invisible infrared illumination systems for optimum imaging performance.

Redflex has developed its own proprietary flash system specifically for traffic enforcement and imaging of vehicles

### 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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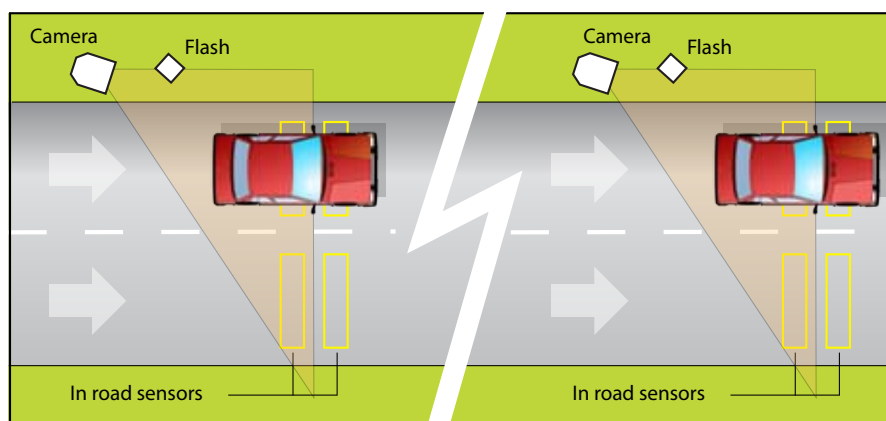
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### Typical point-to-point installation



Point-to-Point (P2P) works on the principle of average vehicle speed, and lane usage over a fixed distance. To do this the vehicle must be identified at two or more P2P Stations.

STATION 1

STATION 2