Statement of Technology
REDFLEXred Rear Only Camera System with Video

The REDFLEXred camera system monitors the traffic signal red phase and approaching vehicles. The system triggers a sequence of images and video, should the vehicle progress into the intersection during the red phase.

The REDFLEXred system may record:

- 3 Still Images
- 1 Video Sequence
- Location description, date, time, frame, speed limit, lane, vehicle speed, and elapsed time. The camera system imprints this data at the top of all full size still images.

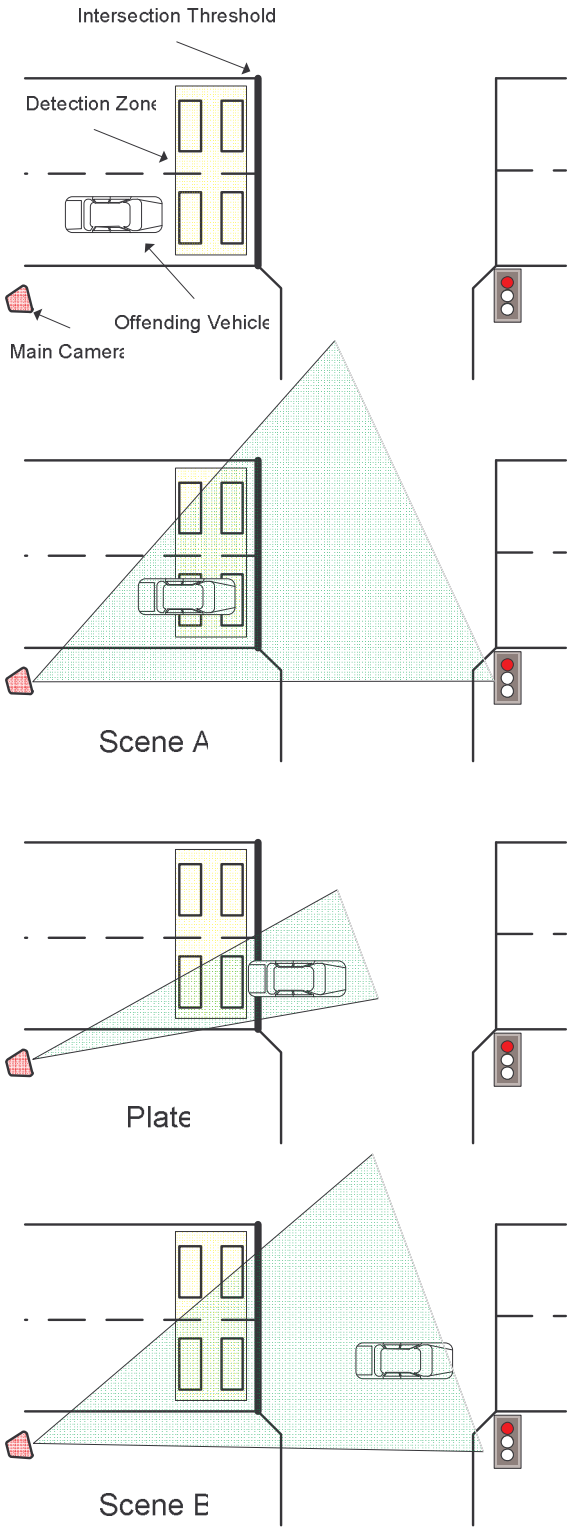
Each REDFLEXred system consists of one main camera enclosure to provide rear scene images, a zoomed image of the license plate, and a video sequence of offending vehicle.

The Main camera is connected to the traffic signal controller and inroad sensors within the detection zone. During the green and amber signal phases, the system is not active. It ONLY becomes active AFTER a delay period from the start of the red phase.

When a vehicle is detected, the main camera captures three images as illustrated to the right. The “Scene A” image shows the vehicle just behind the stop bar, or at the intersection threshold with the traffic signal already red. The “Plate” image is a zoomed view showing the rear of the vehicle and the license plate. The “Scene B” image shows the vehicle in the intersection during the red phase.

A Video Sequence is captured from the main camera enclosure at a predetermined amount of time before and after the violation.

The System uses encryption and a proprietary format to safeguard the image evidence against alteration. The system gives each still image and its data a unique signature to confirm its authenticity. Public key cryptography and additional encryption processes secure the transmission process.



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