

Digital SMARTCAMred Camera Systems **ONLY trigger during the red light signal phase**. All system thresholds are set based on contractual requirements of the city.

The Camera Systems record:

- **Four separate images** for each red light violation, and
- The date, time, time into the red cycle, location, detected vehicle speed and posted speed limit for each violation. The Camera System imprints this data onto the **Databar** which is displayed at the top of all four images.

Each **Camera System** consists of two main components, the **Main Camera** and the **Face Camera**.

The **Main Camera**, is comprised of three main elements:

- the **Main Camera** that captures Scene A and Scene B images of the vehicle,
- the **Plate Camera** that provides a zoomed image of the vehicle's rear license plate, and
- a **Video Camera** that provides video images of the scene.

The **Face Camera** captures images of the driver's face.

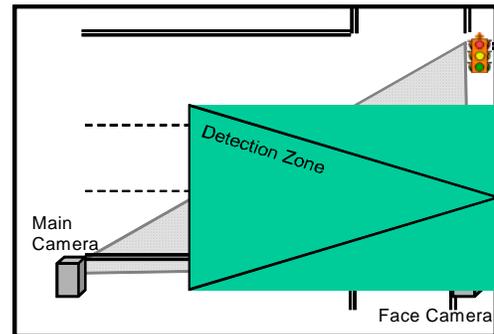
The **Camera System** is connected to the traffic signal controller and detection **RADAR**. During the green and amber signal phases the camera is not active. It **ONLY** becomes active **AFTER** a delay period from the start of the red signal phase.

When the **RADAR** detects a vehicle's speed above a pre-determined threshold, the **Main Camera** triggers. The **Scene A Image** (top right) shows the vehicle behind the violation line with the traffic signal red phase visible. The **Plate** and **Scene B Image** is activated when the vehicle has proceeded through the detection zone. The **Face Camera**, placed across the intersection, is triggered by the **Main Camera** based on the vehicle's detected speed.

Continuous live video, not recorded, is captured by the **Main Camera**, and fed through a memory buffer. At completion of the image capture sequence described above, the **Main Camera** records the information in the memory buffer plus an additional customer specified period. This results in up to a 12 second video recording.

The **Camera System** has **safeguards** to protect the image evidence from alteration. At the scene, the **Camera System** gives each image and its data a **unique signature** to confirm its authentic status. **Public key cryptography** and additional encryption processes secure the data transmission process.

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FACE CAMERA

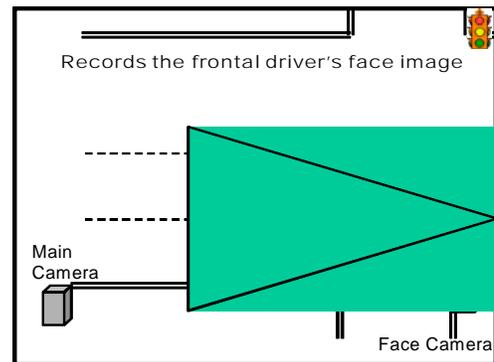
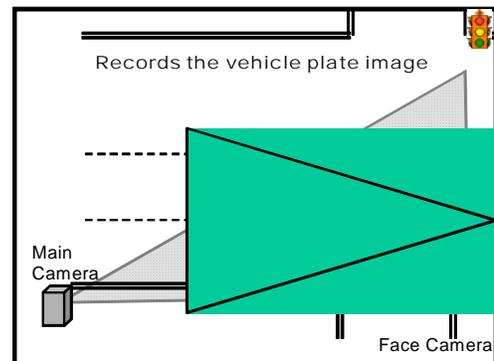
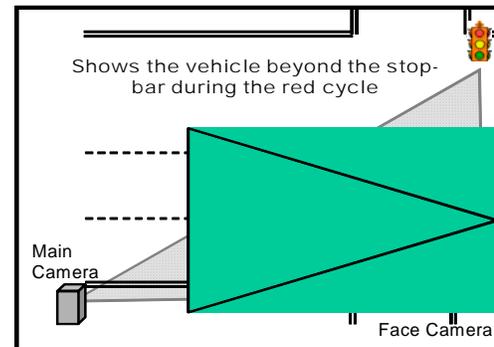


PLATE CAMERA



SCENE B IMAGE



For technical questions, please contact Tony Parrino, Director Systems Support, 623-207-2510