Safety Camera Use for Speed Enforcement

ASE Technology Brief

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History

- From wet film to digital cameras
- Integrated photo and data evidence

1980 - Moving In-vehicle







1988 – First speed and redlight camera

1966 – First red-light camera



Basic process concept

- Event measurement and trigger
- Collect photo and data evidence
- Transfer evidence
- Store evidence
- Process evidence into violation notification with fine
- Send and receive violation notification
- Monitor fine payment status



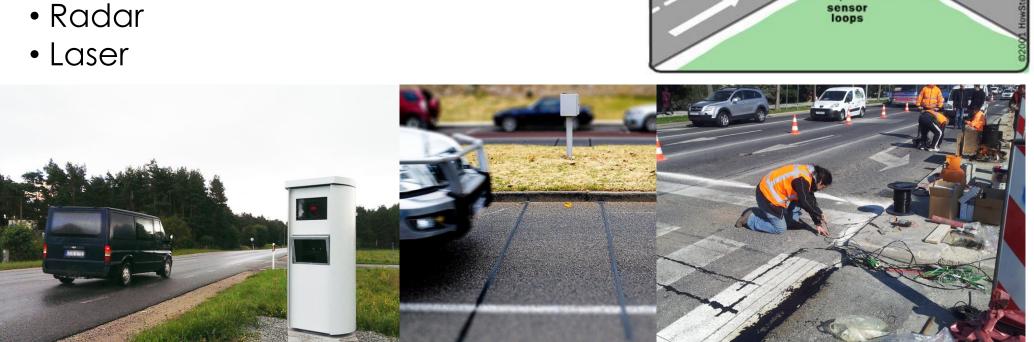


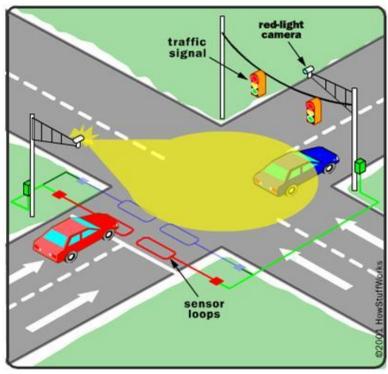
Detectors - types

Invasive

- Piezo
- Inductive loops in asphalt

Non-invasive















Detectors – advantages & disadvantages

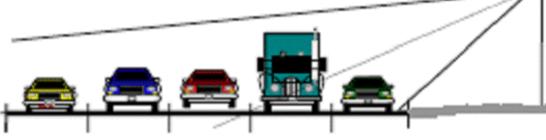
- Vandalism
- Soiling
- Radar detectors
- Occlusion
- Road works
- Maintenance
- Installation height

















Fixed enforcement cameras



- Red-light enforcement
- Spot speed enforcement
- Combined red-light / speed





Red light camera videos

Red light camera videos



Red light camera videos



Semi-fixed speed cameras

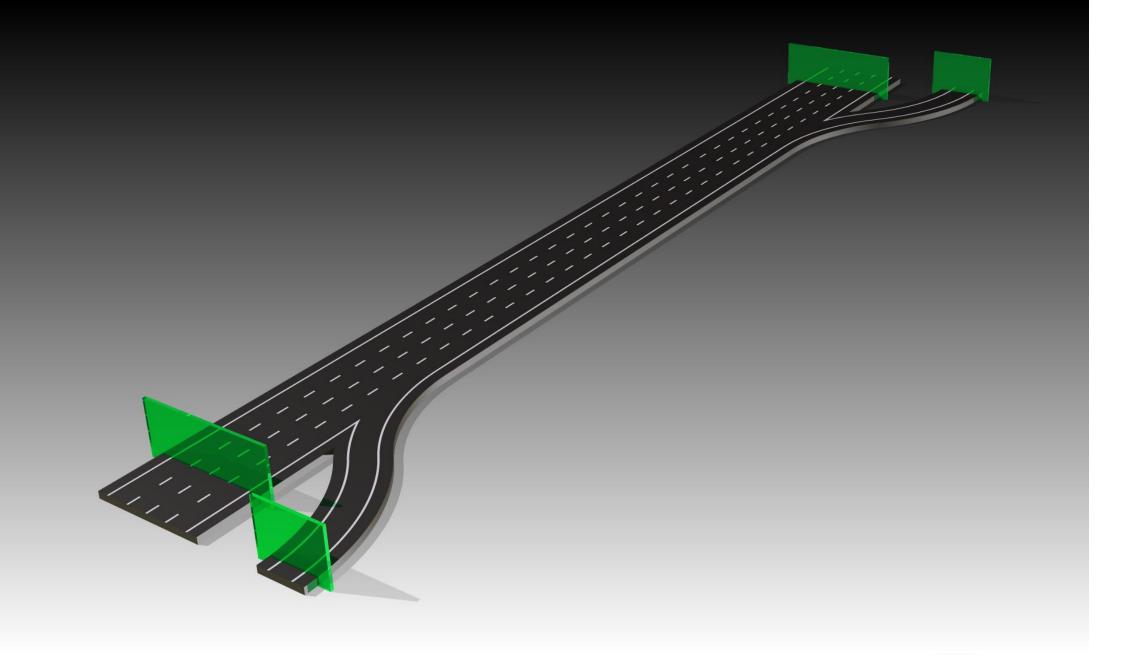
• Temporary spot speed enforcement













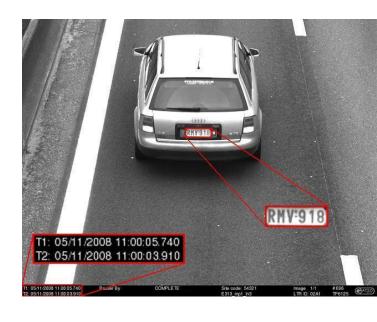


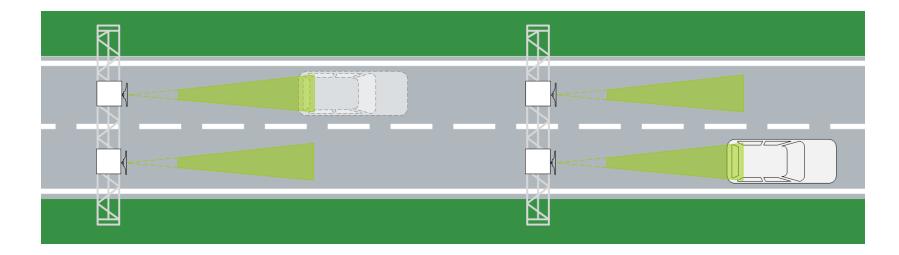




Average speed cameras

- Principle entry exit, time over distance
- No speed is measured
- Highly effective



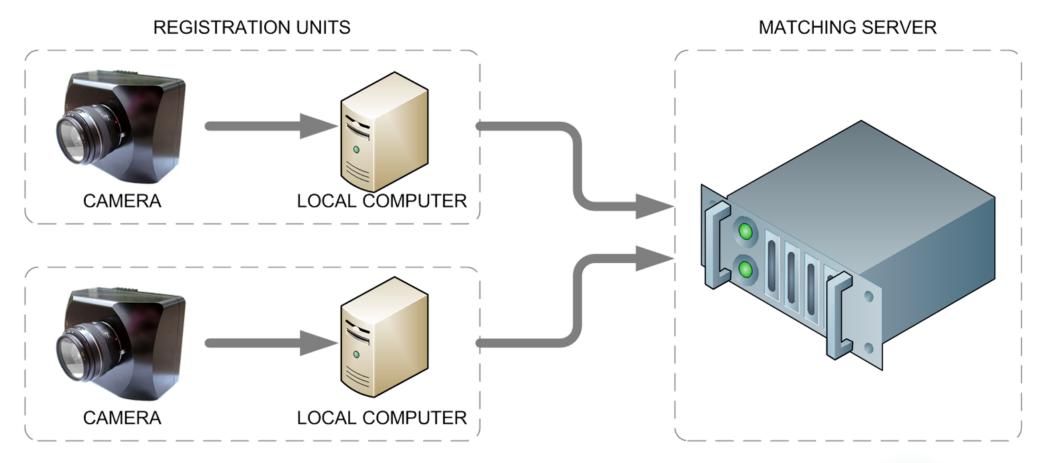








Average speed enforcement









Mobile speed cameras

Spot speed enforcement by police





In-vehicle system

mobile and stationary speed enforcement by police



In-vehicle enforcement video









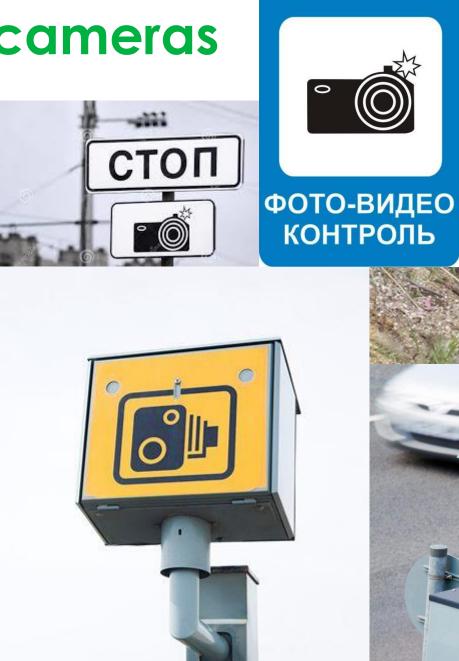




Enforcement cameras

- Overt or covert?
- Different opinions







Preparations and implementation

- Strategic approach
- Long preparation time due to regulatory and procedural changes
- Timely involve all stakeholders also for PR
- Strategy also defines hardware types
- Don't rush front-end hardware roll-out
- Start hardware roll-out on a limited scale
- Scalability back-office
- Multiple camera communication protocols for back-office
- Homologation and/or second measurement method









Emerging enforcement technologies by RSS







