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 red-light 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
- Radar
- Laser
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 enforcement

Average speed safety cameras
Average 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
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