

Automated Speed Enforcement Cameras



Automated Speed Enforcement (ASE) cameras are systems that detect speeding vehicles and capture photographic evidence to support consistent, automated speed limit enforcement.

Implementation Strategy

How and Where to Apply

- ASE cameras are used where speeding is frequent and traditional enforcement is challenging.
- Ideal for school zones, work zones, high-crash corridors, and urban arterials.
- Can be deployed as fixed, mobile, or Point-to-Point systems based on site needs.
- Effective in both visible and covert operations to maximize speed compliance.

Use in a Safe System Approach

ASE cameras support the Safe System by ensuring speed limits are followed through consistent, automated enforcement following SSA safe speeds element. By deterring speeding, these cameras help reduce crash risk and severity, especially in high-risk locations.

Key Stakeholders

Traffic engineering departments, law enforcement agencies.

Proactive Implementation

ASE cameras can be implemented proactively in areas with documented speeding issues. Agencies may select locations using speed studies, crash data analysis, or community-reported concerns. A systemic approach can also be used to identify corridors with risk factors such as high pedestrian activity, limited enforcement visibility, or a history of speed-related crashes.

Countermeasure Overview

Objective: Improve efficiency and effectiveness of speed enforcement efforts

Strategy: Implement automated speed enforcement

Targeted Solution



CONTRIBUTING FACTORS

- Unsafe speed
- Aggressive driving behaviors



TARGET CRASH TYPE

- Speeding



ROAD FACILITY TYPE

- Principal Arterial



AREA TYPE

- Urban
- Suburban

Safety Linkage



NCHRP 500 Series

Speeding

SAFE SYSTEM APPROACH

Safer Speeds

SAFE SYSTEM ROADWAY DESIGN

TIER 1
TIER 2
TIER 3
TIER 4

Tier 2



AASHTO'S TOWARD ZERO DEATHS

Safer Infrastructure

Selected Related Countermeasures

- CM1** Dynamic speed feedback signs
- CM2** Enhanced police enforcement operations
- CM3** Speed limit reduction campaigns

Cost: \$ (Moderate to High)

Service Life: > 5 years

Benefit-Cost Ratio: 4:1

ASE cameras. Source: [NCSL](#)

Safety Benefits

37%

Reduce crashes on freeways and arterials¹

54%

Reduce total crashes on urban principal arterials²

¹ CMF ID: 7718

² CMF ID: 2915

Resources

- [FHWA Speed Safety Camera Program Guide](#)
- [FHWA Speed Safety Cameras](#)

