

Install Automated Speed Camera at Signalized Intersection



Automated speed cameras installed at signalized intersections improve safety and help enforce speed limits.

Implementation Strategy

How and Where to Apply

- Install automated speed enforcement cameras at signalized intersections with a documented history of speeding-related crashes.
- These systems detect speeding vehicles and issue citations by mail, providing continuous and unbiased enforcement.
- Ideal for multilane approaches to intersections with high pedestrian activity or crash clusters.

Use in a Safe System Approach

By automatically enforcing speed compliance, speed cameras address the root behavioral cause of many urban crashes unsafe speed and do so proactively and equitably. Their ability to operate continuously at high-risk locations advances SSA goals by reducing the frequency and severity of crashes due to excess speed.

Key Stakeholders

Traffic Engineering Departments,
Law Enforcement Agencies

Proactive Implementation

Use crash and speed data to identify intersections with excessive speeds or repeated violations. Prioritize locations with vulnerable road users (e.g., near schools or transit hubs) or high crash severity. Combine deployment with visible signage and community education campaigns to increase compliance and public support.

Countermeasure Overview

Objective: Improve efficiency and effectiveness of speed enforcement efforts

Strategy: Implement automated speed enforcement

Selected Related Countermeasures

- CM1** Red-light running cameras
- CM2** High-visibility signal heads and backplates
- CM3** Leading pedestrian intervals

Cost: \$ (Moderate to High)

Service Life: 10 years

Benefit-Cost Ratio:

Targeted Solution



CONTRIBUTING FACTORS

- Drivers disregard traffic signals



TARGET CRASH TYPE

- Speeding



ROAD FACILITY TYPE

- Not specified



AREA TYPE

- Urban
- Suburban

Safety Linkage



NCHRP 500 Series

Speeding-related Crashes



AASHTO'S TOWARD ZERO DEATHS

Improved Safety management

SAFE SYSTEM APPROACH

Safer Speeds

SAFE SYSTEM ROADWAY DESIGN

TIER 1

TIER 2

TIER 3

TIER 4

Tier 4

ASE cameras. Source: NCSL

Safety Benefits

32%

Automated speed cameras reduce all crash types in urban and suburban areas¹

31%

Angle crashes of all severity levels reduced in urban and suburban areas²

¹ CMF ID: 6882

² CMF ID: 6883

Resources

- [Evaluating the Effectiveness of Urban Speed Cameras on Traffic Safety in a Period of Dramatic Change](#)
- [Improving Guidance for Speed Safety Camera](#)

