NCHRP 17-113 COUNTERMEASURES

Install Automated Section Speed Enforcement System

SPEEDING

ASE cameras detect vehicles exceeding speed limits and automatically record images as evidence to ensure consistent and impartial enforcement.

Implementation Strategy

How and Where to Apply

- ASE cameras are effective in areas with persistent speeding issues or where traditional enforcement is limited or impractical.
- Common applications include school zones, construction areas, high-crash corridors, and urban arterials.3. Deployment options include fixed units, mobile systems, or point-to-point configurations, depending on site-specific requirements."

Use in a Safe System Approach

ASE cameras support the Safe System Approach by reinforcing safe speed management. They enhance engineering and education efforts through consistent, automated enforcement that discourages speeding and lowers crash severity—particularly in high-risk locations.

Key Stakeholders

Traffic engineering departments, law enforcement agencies

Proactive Implementation

ASE cameras can be proactively deployed in areas with known speeding problems. Agencies may identify sites through speed studies, crash data, or community input. A systemic approach may also target corridors with risk indicators such as high pedestrian volumes, low enforcement visibility, or a history of speed-related crashes.

Countermeasure Overview

Objective: Improve efficiency and effectiveness of speed enforcement efforts

Strategy: Increase penalties for repeat and excessive speeding offenders

Targeted Solution

CONTRIBUTING FACTORS	▪ Unsafe speed ▪ Aggressive driving behaviors
TARGET CRASH TYPE	▪ Speeding
ROAD FACILITY TYPE	▪ Principal Arterial Other ▪ Freeways ▪ Expressways
AREA TYPE	▪ All

Safety Linkage

NCHRP 500 Series	SAFE SYSTEM APPROACH
Speeding-related Crashes	Safe Speeds
AASHTO'S TOWARD ZERO DEATHS	SAFE SYSTEM ROADWAY DESIGN TIER 1 TIER 2 TIER 3 TIER 4
Improved Safety Management	Tier 4

Selected Related Countermeasures

- CM1 Real-time driver speed display systems
- CM2 Targeted high-visibility speed enforcement
- CM3 Speed limit re-evaluation and public awareness initiatives

Cost: $ (Moderate to High)

Service Life: 10 years

Benefit-Cost Ratio: 4.66:1

Safety Benefits

57% Reduce crashes on freeways and arterials[1]

38% Reduce total crashes on urban principal arterials[2]

[1] CMF ID: 7720
[2] CMF ID: 4137

Resources

- FHWA Speed Safety Camera Program Guide
- FHWA Speed Safety Cameras

ASE cameras. Source: NCSL