Emergency Vehicle Preemption

“Extending Our Reach”

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EMERGENCY VEHICLE PREEMPTION
HOW IT WORKS

1. Opticom™ GPS vehicle equipment transmits vehicle speed, direction and turn signal status to GPS intersection equipment.

2. As vehicle enters radio range, Opticom™ GPS intersection equipment relays the request to Opticom™ phase selector.

3. Opticom™ Multimode phase selector validates request from IR detector or GPS receiver, and alerts the traffic control system which requests a green traffic signal.

Use Central Management Software (CMS) to update system configuration, collect data and generate reports.
Why we need emergency vehicle preemption?

INCIDENT RESPONSE: Respiratory Distress

Timer Starts...
NHTSA Study: Fairfax emergency vehicle preemption

Benefits of EVP:

+ Help reduce the risk of accidents at intersections
  - Improved safety and reduced liability

+ Better response times
  - Reducing response times anywhere between 14–23%

*Approx. 70 seconds on a route with 3 to 6 signalized intersection
Implementing Preemption Technology

+ **Strategic Initiative to Expand Emergency Vehicle Preemption (EVP)**
  - Cooperative Partnership with Stakeholders
    - VDOT, FCDOT, WMATA
  - Fostering Interoperability
    - Prince William County, Loudoun County, Fairfax City, Town of Herndon, Town of Vienna

+ **Pursuing Various Funding Sources**
  - Grant Funding
    - Assistance to Firefighters, Northern Virginia Transportation Authority, DOT Grants (TIGER)
  - CIP Funding
  - Development Proffers
Summary of Benefits

Reduce intersection crash rates by up to 70%

Improve response times by up to 25%

Opticom® Benefits

Prevent injuries and related costs

Offer quick payback on your investment

Decrease liability for crashes with other motorists

Opticom® Solutions

Global Traffic Technologies

*Independent studies available upon request"