

## Opticom™ Infrared and GPS Systems Emergency Vehicle Preemption (EVP) Systems

### Benefits of Using Opticom™ Systems:

- ✓ Emergency vehicle preemption (EVP) and transit signal priority (TSP) systems are compatible and can be integrated in your community - one investment benefits multiple agencies
- ✓ Opticom systems for EVP and TSP can be deployed easily within 90-120 days
- ✓ Over 35 years of proven industry and product performance – GTT was formed from 3M's pioneering intelligent transportation systems
- ✓ 1 Job-year creation for every 5 intersections installed (350,000 intersections in the US)

### Benefits of Using Emergency Vehicle Preemption:

- ✓ Improve health and well being of emergency personnel - reduce driver stress, lowers accident potential and cost of injured personnel
- ✓ Reduce liability exposure and improve safety of emergency personnel – safer passage through intersections, lower accident potential (up to 70% crash reduction)
- ✓ Increase mobility & accessibility – interoperability between jurisdictions by supporting mutual aid response, improve response efficiency by expanding coverage
- ✓ Improve public safety – reduce incident response times for Police, Fire & Ambulance
- ✓ Improve travel time to meet NFPA 1710 Standard in Fire Operations - reduce response time by an average of 20%, reduce total idle/stop time during incident response
- ✓ Reduce cost in fire/rescue and EMS planning –investment of additional vehicles, stations and personnel
- ✓ Reduce maintenance and impact on vehicle systems – less braking and less stops
- ✓ Reduce cost of fuel consumption – less braking and idling during incident response
- ✓ Increase environmental stability - reduce “emissions” via shortened travel time and reduced number of stops and idle time
- ✓ Reduce cost of insurance premiums – lower incident rate (crash rates) with safer passage through intersections.

### References:

“Desktop Reference for Crash Reduction Factors” USDOT/FHWA (Report No. FHWA-SA-07-015) Sept 2007

“Traffic Signal Preemption for Emergency Vehicles: A Cross Cutting Study” FHWA, January 2006

“Intersection Traffic Preemption System Expansion Proposal” City of Surrey, October 2003