



Global Traffic  
Technologies

# Opticom™ Infrared System

## Opticom™ Models 711, 721 and 722 Detectors

Opticom™ Infrared System Matched Component Products

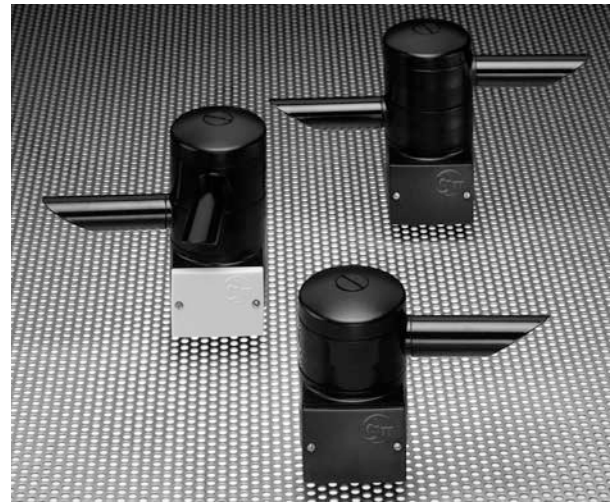
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### Description

The Opticom™ 700 Series Detectors transform the optical energy detected from an approaching, vehicle-mounted Opticom™ Emitter to an electrical signal. The electrical signal is transmitted along a cable to the Opticom™ Phase Selector or Opticom™ Discriminator for processing.

Opticom 700 series detectors are mounted at or near the intersection that permits a direct, unobstructed line-of-sight to vehicle approaches. Opticom detectors may be mounted on span wire, mast arm or other appropriate structures.

Opticom™ Models 711, 721 and 722 Detectors offer significant advances and flexibility for specific intersection applications. The Opticom detectors are designed for common applications in three configurations: one direction—the single channel Opticom model 711; the single channel, dual detection Opticom model 721; and two direction, two output detection—the dual channel Opticom model 722. All Opticom 700 series detectors greatly reduce installation and life cycle costs through their modular design, adjustable tubes, and compatibility with existing Opticom™ Infrared System intersection and vehicle equipment.



Opticom™ Models 722, 721 (back) and 711 Detectors

### Features

- Advanced electrical transient immunity
- Modular design
- Adjustable turret configuration: accommodates skewed approaches
- Lightweight, durable, high-impact polycarbonate enclosure
- Simplified installation: span wire or mast arm
- Gray door identification of Opticom model 722



Opticom™ Span Wire Clamp



Opticom™ Model  
138 Detector Cable

## Accessories

- Opticom™ Span Wire Clamp
- Opticom™ Model 138 Detector Cable

## Operating Parameters

- **Reception Range:** 200 ft. (60 m) adjustable up to 2,500 ft. (760 m)
- **Electrical:** 24 to 28 VDC, 50 MA minimum
- **Temperature Range:** -30° F (-34° C) to 165° F (74° C)
- **Humidity:** 5% to 95% relative

## Physical Dimensions

### Opticom™ Model 711 Detector

**Length:** 12.0 in. (30.5 cm)

**Width:** 4.75 in. (12.1 cm)

**Height:** 5.63 in. (14.3 cm)

**Weight:** 0.88 lbs. (400 g)

### Opticom™ Models 721 and 722 Detectors

**Length:** 12.0 in. (30.5 cm)

**Width:** 4.75 in. (12.1 cm)

**Height:** 7.13 in. (18.1 cm)

**Weight:** 1.12 lbs. (508 g)

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### Important Notice to Purchaser:

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GTT will, at its sole option, repair, replace or refund any amounts paid for any Opticom™ Infrared System component found to be defective in materials or manufacture within five (5) years from the date of shipment from GTT. See "Warranty and Extended Coverage" for details and limitations of the coverage plan. GTT will provide a functioning replacement component at a standard charge per unit for an additional five (5) years.

GTT warrants future system operability coverage as described herein. The warranties set forth in this document shall not apply to (A) incandescent lamps (confirmation lights) or (B) any Opticom infrared system components which have been (1) repaired or modified by persons not authorized by GTT; (2) subjected to incorrect installation, misuse, neglect or accident; (3) damaged by extreme atmospheric or weather-related conditions; or (4) subjected to events or use outside the normal or anticipated course.

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Sale and use of the Opticom infrared system is expressly restricted to authorized agencies of government customers, within their specific jurisdictions. However, because the infrared signal generated by the Opticom infrared system is not exclusive, GTT does not warrant exclusive activation by purchaser. Authorized users who desire to use or coordinate use of the Opticom infrared system with that of other jurisdictions must first obtain the prior written approval of each authorized user in the jurisdiction where use is sought.

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