

Opticom[™] Infrared System Opticom[™] Model 492 Emitter

An Opticom™ Infrared System Matched Component Product

October 2007

Description

The Opticom™ Model 492 Emitter is a compact, lightweight, weather-resistant encoded signal device intended for use on priority vehicles. The Opticom model 492 is comprised of a flash-tube/reflector and housing assembly with an integral power supply and the required cables. The Opticom model 492 converts 12 VDC vehicle battery power to the high voltage required for operation of the unit. Accessory switch devices are also available.

The encoded signal pattern (composed of the individual vehicle class code) generated by the Opticom model 492 is established prior to ordering the emitter and is specified at the time of procurement. Vehicle class selection is customized during the manufacturing process.

The Opticom model 492 generates precisely timed pulses of high intensity light in the infrared and visible wavelengths at the base flash rate of approximately 14 Hz. It also interleaves programmed encoded pulses that carry the vehicle class information. These energy pulses are sensed and processed by other Opticom infrared system components to cause activation of the system.



Opticom™ Model 492 Emitter

Description of Models

Opticom™ Model 492H Emitter: a high-priority emitter

Opticom[™] **Model 492HF Emitter:** a high-priority emitter with filter

An Opticom™ Infrared System Matched Component Product

Opticom™ Model 492 Emitter

Features

- Discrete, penetrating infrared communication
 - -Directional
 - -Consistent, day and night transmission
 - —All-weather performance
- Compact, single source system
- High-priority operation
- Encoded signal transmission
 - —High priority (10 classes of vehicles)
- Low power consumption
- Improved installation flexibility
 - -Mounts directly on vehicle
 - Incorporates into many lightbars
- Automatic emitter disable, indicated by slow flashing of the emitter switch indicator light
- Self-diagnostic with visual feedback through the switch's indicator light
- Configured with a grating for precise directionality control
- Available with an optional light-blocking filter

Accessories



Opticom™ Model 793B Switch (left) and Opticom™ Model 793S Switch (right)

- Switches
 - Rocker-type switch for knockout/panel mounting (with simple mounting bracket) (model 793B)
 - Fully enclosed push-button switch (with dashboard mounting bracket) for on/off operation (model 793S)

	Model 793S Switch	Model 793B Switch	Customer-Supplied Switch
Opticom™ Model 492H Emitter	High Priority/Off	High Priority/Off	High Priority/Off
Opticom™ Model 492HF Emitter	High Priority/Off	High Priority/Off	High Priority/Off

Operating Parameters

- High-priority operation selected by model
- Isolated power supply and emitter for positive or negative ground vehicle power system
- Less than 5 amps peak current drawn
- Self-diagnostic
- Precisely controlled high-priority flash rate of 14 Hz
- Transmission range up to 2,500 feet (762 m) with clear lens and up to 1,800 feet (549 m) with visible light filter
- Electrical
 - —Input voltage: 10 to 16 VDC
 - -Current: less than 5 amps
- Environmental
 - -Temperature: -30° F (-34° C) to

+165° F (+74° C)

-Relative humidity: 5% to 95%

Physical Dimensions

Opticom™ Model 492 Emitter

• **Depth:** 3.5 in. (8 cm)

• Width: 5.8 in. (14 cm)

• **Height:** 3.7 in. (9 cm)

• Weight: 1.9 lb. (.8 kg)

Important Notice to Purchaser:

EXCEPT FOR THE LIMITED WARRANTIES SET FORTH IN THIS DOCUMENT, GLOBAL TRAFFIC TECHNOLOGIES (GTT) MAKES NO OTHER WARRANTIES AND EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

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.

IN NO EVENT SHALL GTT BE LIABLE FOR ANY INJURY (INCLUDING, WITHOUT LIMITATION, PERSONAL INJURY), DEATH, LOSS, OR DAMAGE (INCLUDING, WITHOUT LIMITATION, PROPERTY DAMAGE), WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR OTHERWISE, ARISING OUT OF THE USE OR INABILITY TO USE, REPAIR OR FAILURE TO REPAIR, ANY GTT PRODUCT, REGARDLESS OF THE LEGAL THEORY ASSERTED. THE REMEDIES SET FORTH IN THIS DOCUMENT ARE EXCLUSIVE.

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.



Global Traffic Technologies, LLC 7800 Third Street North St. Paul, Minnesota 55128-5441 1-800-258-4610 651-789-7333 www.gtt.com

Global Traffic Technologies Canada, Inc. 157 Adelaide Street West Suite 448 Toronto, ON M5H 4E7 Canada 1-800-258-4610 Opticom is a trademark of Global Traffic Technologies, LLC.
Used under license in Canada.
Please recycle. Printed in U.S.A.
© Global Traffic Technologies, LLC 2007
All rights reserved.
75-0500-2989-3 (A)