



THE O'GARA GROUP

SENSOR SYSTEMS DIVISION



STAR

THERMAL IFF BEACON

HIGH OUTPUT THERMAL BEACON TECHNOLOGY

- Covertly identifies blue force personnel and vehicles
- Undetectable by conventional image intensifier-based night vision equipment
- 1 - 10 km visibility
- Helmet, MOLLE, and vehicle mounts
- Wirelessly synchronize with other Star beacons



(ACTUAL SIZE)



OPERATIONAL CAPABILITIES

The Star Beacon is a thermal combat ID beacon for covertly marking blue force personnel and vehicles. It emits no visible signature and is undetectable by conventional image intensifier-based night vision equipment. The Star beacon has an optical output of approximately 2300 mW in the mid-wave IR band (3 to 5 micron) and/or 400 mW in the long-wave IR band (8 to 12 microns). The beacon emits in a full hemispherical pattern for high visibility by air or ground mounted thermal imaging systems. The emitter head, battery pack, and mount system can be easily configured for use on a helmet, vehicle, MOLLE vest, or pack.

- Positive ID of blue force assets from both ground and airborne thermal imaging systems
- 1 km visibility to cooled LWIR imagers – 10 km visibility in MWIR with common imagers
- Invisible to Gen I, II, and III image intensifiers
- Neodymium magnets for attachment to vehicles and integral bracket for various attachment options to a helmet, vest, or pack
- Multiple Star Beacons can be wirelessly synchronized to flash in unison.
- Battery pack with (6) 123 batteries provides 5 hours of continuous run time.
- Also runs on external power, 12 to 32 VDC.
- Full hemispherical emission from the horizon to zenith

PHYSICAL FEATURES

Internal Power:

(6) 123 lithium batteries

Run Time:

5 hours

External Power:

12-32 VDC

Dimensions (Beacon):

2.8in x 2.0in x 0.8in

Dimensions (Battery Pack):

3.7in x 2.6in x 1.0in

Weight (with Batteries):

160g (5.6 ounces)

OPTICAL PERFORMANCE

Wavelength:

3 to 5 μ m and/or 8 to 12 μ m

In-Band Optical Power - 3 to 5 μ m:

2300mW

In-Band Optical Power - 8 to 12 μ m:

400mW

Optical Divergence:

full hemisphere: 360° azimuth x
90° elevation

Detectable Range

(MWIR - InSb, See Spot): 10km

Detectable Range

(LWIR - TIMS 1500): 1km

ENVIRONMENTAL SPECS

Operating Temperature Range:

-30°C (-22°F) to 50°C (122°F)

Storage Temperature Range:

-40°C (-40°F) to 80°C (176°F)

Environmental:

waterproof to 66ft

Main Office

2794 Indian Ripple Road
Beavercreek, OH 45440
Tel: (937) 426-2341 / Fax: (937) 426-4820
Sensors@OgaraGroup.com

International Sales Office

Unit 11 Jubilee Enterprise Centre
Weymouth, Dorset DT4 7BS England
Tel: 44(0)1 305 772211
Sensors@OgaraGroup.com

ITAR Statement: The O'Gara Group, Sensor Systems Division's products are commodities covered by the United States Munitions List (USML), the use of which is restricted by the U.S. Arms Export Control Act (AECA) and the International Traffic in Arms Regulations (ITAR) (22 CFR Parts 120-130). These commodities shall not be transferred to any foreign person in the United States or abroad, except as authorized by the U.S. Department of State, Directorate of Defense Trade Controls (DDTC).