



THE O'GARA GROUP

SENSOR SYSTEMS DIVISION

OCTOPUS

NIR & THERMAL TTL BEACONS



ULTRA-COMPACT TAGGING, TRACKING, AND LOCATING TECHNOLOGY

- Covertly mark blue force personnel, vehicles, DZs, LZs, etc.
- Tag and track red force personnel, vehicles, etc.
- Excellent long range visibility, day & night
- Miniature packages with tie down tabs and rare earth magnets
- Programming of custom flash patterns
- Transmission of optically encoded data



(ACTUAL SIZE)

OPERATIONAL CAPABILITIES

The Octopus beacons are externally powered miniature NIR, Thermal, or dual band NIR/Thermal beacons. They are specifically designed to outfit a vehicle or fixed asset with 360° coverage for covert blue & red force tracking. The output in the NIR band is 200 mW for the dual band beacons & 400 mW for the NIR only beacons making them visible directly for over 40 km and indirectly reflected off the ground for over 5 km. The thermal beacons use high efficiency emitters and microprocessor controlled drive circuits to produce the highest available in-band MWIR & LWIR optical output for their size.

- IFF & DZ/LZ – Covertly mark blue force personnel, vehicles, DZs, LZs, etc.
- TTL – Tag and track red force personnel, vehicles, etc. in rural and urban environments.
- High optical output & synchronous flashing ensure excellent long range visibility, day & night.
- Miniature packages with tie down tabs and rare earth magnets are easily concealed.
- Bright enough to be viewed at long ranges solely from their reflection off the ground.
- On-board microprocessor allows for the programming of custom flash patterns and enables the transmission of optically encoded data.



PHYSICAL FEATURES

External Battery Pack:

(4) 123 lithium batteries

External Power:

12 - 18 VDC

Run Time (4 emitter heads):

dual band - 7 hours

NIR - 13 hours

Dimensions:

49mm (1.6in) x 22mm (1.1in) x

12.5mm (0.5in)

Weight:

beacon - 87g (3.0 ounces)

4 beacons, 4 cables, 1 battery pack -

454g (16 ounces)

OPTICAL PERFORMANCE

Wavelength:

860nm, 3 - 5 μ m, and 8 - 12 μ m

In-Band Optical per Beacon:

860nm - 200 or 400mW

3 to 5 μ m - 125 or 250mW

8 to 12 μ m - 22 or 45mW

Optical Divergence:

860 nm - 80° FWHM

thermal - 100° FWHM

Detectable Range:

NIR - ~40km

MWIR (SeeSpot™) - ~5km

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 20 meters (66ft)

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