

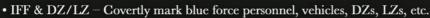
NIR & THERMAL TTL BEACONS





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.



- 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 - 5μm, and 8 - 12μm

In-Band Optical per Beacon:

860nm - 200 or 400mW

3 to 5µm - 125 or 250mW

8 to 12μm - 22 or 45mW

Optical Divergence:

860 nm - 80° FWHM

thermal - 100° FWHM

Detectable Range:

NIR - ~40km

MWIR (SeeSpotTM) - ~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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