

Star Beacon

Thermal IFF Beacon



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. Multiple Star Beacons can be wirelessly synchronized to flash in unison.



Star Beacon Features



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PHYSICAL FEATURES

Battery Power
(6) CR123; can also be wired
12 - 32 VDC

Battery Life
5+ hours of continuous use

External Power
12 - 32 volts DC

Number of Emitters
14

Emitter Dimensions
7.4 x 6.1 x 2.5 cm
(2.9 x 2.4 x 1.0 in.)

Weight
124 g (4.37 oz.)

ENVIRONMENTAL FEATURES

Operating Temperature
-30°C to +60C
(-22°F to +140°F)

Waterproof
20 m (65 ft.) immersion for 30 minutes

SPECIAL FEATURES

- Low-profile easily mounts to helmets and vehicles
- Positive ID of blue force assets from air and ground thermal imaging systems
- Full hemispherical divergence for visibility from horizon to zenith

OPERATIONAL AND OPTICAL PERFORMANCE

Wavelength
MWIR (3 - 5 μ m)

In-Band Optical Power
3 - 5 μ m (2,400 mW approx.)

Detection Distance/Range
15 km (8 nautical miles) with
MWIR litening targeting pod

Available Spectral Modes
MWIR

Programmability
Programmable

Thermal Detection Direction
Fully hemispherical

Synchronization
Multiple Star beacons can be
synchronized



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