

Nova Beacon

Multi-Spectral Combat Identification Beacon



The Nova beacon is a multi-spectral combat ID beacon for covertly marking blue force personnel and vehicles. Six emitters includes broadband thermal, NIR, SWIR, and/or white LED emitters can be populated with any combination of emitters. When operated in thermal or SWIR modes, it emits no visible signature and is undetectable by conventional night vision equipment.

The Nova beacon has an optical output of approximately 350 mW in the MWIR band (3 - 5 μm), 320 mW in the NIR band (880 nm), 150 mW in the SWIR band (1550 nm), and 70 lumens in the visible spectrum.

Multiple Nova beacons can be synchronized to flash in unison. Positively ID blue force personnel and vehicles from ground based and airborne thermal imagers, targeting systems, short wave infrared cameras, and NVGs. Completely self-contained, Nova beacons can be configured for use on a helmet, MOLLE vest, pack, or vehicle.



Nova Beacon Features



Nova Beacon

PHYSICAL FEATURES

Battery Power
(2) CR123

Battery Life (approximately)

- NIR: 24 hours
- Thermal: 10 - 12 hours
- NIR and Thermal: 8 hours
- White Light: 4 hours

Dimensions
6.4 x 6.2 x 2.5 cm
(2.5 x 2.43 x 1.0 in.)

Weight
116 g (4.1 oz.)

Mount

- MOLLE Clip
- Tie down slots

ENVIRONMENTAL FEATURES

Operating Temperature
-30°C to +52°C
(-22°F to +126°F)

Storage Temperature
-40°C to +65°C
(-40°F to +149°F)

Waterproof
3 m (9.8 ft.) immersion for 30 minutes

SPECIAL FEATURES

- Completely self-contained
- Can be used on a helmet, MOLLE vest, pack or vehicle
- Six emitter locations can be equipped with any combination of emitters

OPERATIONAL AND OPTICAL PERFORMANCE

Wavelength

- 880 nm
- 3 - 5 μ m

Maximum Optical Power

- 880 nm (320 mW)
- 3 - 5 μ m (350 mW)

Maximum Luminous Flux
880 nm (80 lumens)

Optical Divergence

- NIR: 132° FWHM
- Visible: 115° FWHM
- Thermal: 100° FWHM (horizontal and vertical)

Available Spectral Modes

- Visible, NIR, MWIR Thermal; or
- NIR, MWIR Thermal, SWIR

Programmability
Programmable

Thermal Detection Direction

- Horizontal
- Vertical

Synchronization
Unison flashing with custom patterns



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