



THE O'GARA GROUP

SENSOR SYSTEMS DIVISION



NOVA

MULTI-SPECTRAL COMBAT
IDENTIFICATION BEACON

MINIATURE HIGH POWER & HIGH EFFICIENCY EMITTER TECHNOLOGY

- Positive ID of blue force personnel and vehicles
- When operated in thermal mode, the Nova is undetectable by all visible and NIR cameras and image intensified night vision devices.
- Six emitter locations can be populated with any combination of emitters.
- Configured for use on a helmet, MOLLE vest, pack, or vehicle



OPERATIONAL CAPABILITIES

The Nova is a multi-spectral combat ID beacon for covertly marking blue force personnel and vehicles. It includes broadband thermal, NIR, and/or white LED emitters.

When operated in thermal mode, it emits no visible signature and is undetectable by conventional night vision equipment. The Nova has an optical output of approximately 250 mW in the MWIR band (3 - 5 μm), 45 mW in the LWIR band (8 - 12 μm), 400 mW in NIR band (860 nm), and 70 lumens in the visible spectrum.

- Positive ID of blue force personnel and vehicles from ground based and airborne thermal imagers, targeting systems, and NVGs
- Covert - When operated in thermal mode, the Nova is undetectable by all visible and NIR cameras and image intensified night vision devices.
- Six emitter locations can be populated with any combination of emitters.
- Multiple Nova beacons can be synchronized to flash in unison.
- Completely self-contained: configured for use on a helmet, MOLLE vest, pack, or vehicle



PHYSICAL FEATURES

Internal Power:

(2) 123 lithium batteries

Run Time:

NIR - ~18 hours

thermal (2 emitters) - ~16 hours

NIR + thermal - ~10 hours

Dimensions:

71mm (2.8in) x 58mm (2.3in) x 24mm (1in)

Weight (with Batteries):

90g (3.2 ounces)

OPTICAL PERFORMANCE

Wavelength:

860nm, 3 - 5 μm , and 8 - 12 μm

Maximum Optical Power:

860nm - 400mW, 3 to 5 μm - 250mW,

8 to 12 μm - 45mW

Maximum Luminous Flux (white):

70 lumens

Optical Divergence:

100° FWHM

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 3 meters

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