



THE O'GARA GROUP

SENSOR SYSTEMS DIVISION



SIRIUS

MINIATURE LASER MODULES

COMPACT LASER TECHNOLOGY

- Ready for integration into UAVs, ball turrets, driver vision enhancement systems, NVGs, weapon systems, reconnaissance imagers, etc
- Covert night vision in total darkness
- Extends the ID range of night vision devices
- See into shadows



OPERATIONAL CAPABILITIES

The Sirius products are a family of precision OEM laser pointer and illuminator modules. They are available in several wavelengths including 852 and 1064 nm. Single and dual laser modules are available and can be configured to produce a collimated spot or circularized flood illumination pattern. For the flood illuminator versions, divergence can be fixed, manually adjustable, or motorized adjustable.

- Miniature precision modules are ready for integration into UAVs, ball turrets, driver vision enhancement systems, night vision goggles, weapon systems, reconnaissance imagers, etc.
- High efficiency and high power illumination enables covert night vision in total darkness – useful for caves, buildings, or other very low light conditions.
- High power, uniform, circular beam extends the ID range of night vision devices.
- See into shadows – Laser illuminators light up targets hidden in shadows or vegetation that would be difficult to detect with a passive night vision device.

PHYSICAL FEATURES

External Power:

9 - 32 VDC

Dimensions:

single - 0.5in x 0.8in

dual - 0.8in x 1.25in x 0.62in

Weight:

single - 6.8g

dual - 30g

OPTICAL PERFORMANCE

Wavelength:

852nm, 1064nm, or other

Maximum Optical Power:

852nm (single laser diode) - 500mW

852nm (dual laser diodes) - 1000mW

Spot Divergence:

0.25 MRAD

Available Flood Divergence:

0.25 MRAD to 80° FWHM

Laser Power Adjustment Range:

~30mW to maximum power

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)

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