

**ALFALIGHT™**

**ERIS**

**Extended-Range  
Infrared Source**

**Up to 10W infrared  
illumination**



**Usable range  
from 20 to 1000 meters**

**High-power 975 nm laser**

**1 mrad collimation (1 meter spot at 1 km)**

**Dynamic power control**

**Constant irradiance to 650 meters**

**Rangefinder-enforced eye safety**

**20 ounces, hand-held or weapon-mounted**

**Battery powered**



**Reliability.**

**Performance.**

**Innovation.**

# ERIS

## Extended-Range Infrared Source

# PRODUCT SPECIFICATION

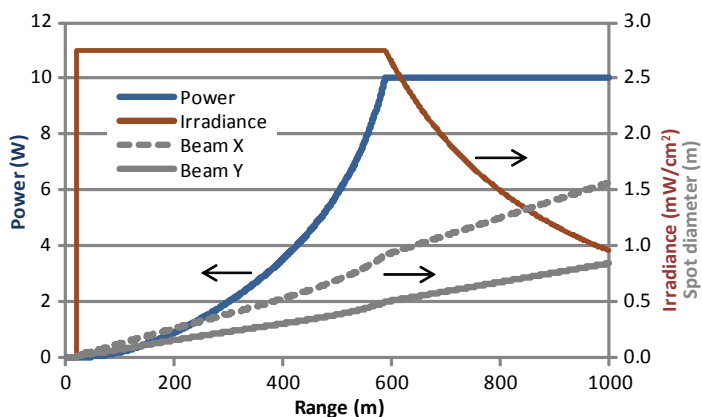
## Alfalight ERIS

### Key Features

- 10 watts of IR optical power
- Operating range of -20C to +55C
- > 200 10-watt, 5-second pulses per battery set
- Rugged, sealed housing
- Designed to MIL-STD-810G requirements



### Performance



### Key specifications

<b>Power</b>	10 mW to 10 W (dynamically controlled)
<b>Wavelength</b>	975 nm
<b>Operating temp</b>	-20 to +55 C (-4 to 131 F)
<b>Operating mode</b>	CW (continuous-on), fast pulse (6 Hz)
<b>Size</b>	136 × 81 × 39 mm (5.4 × 3.2 × 1.5 in)
<b>Weight</b>	625 g (22 oz) including rail mount, batteries, cover

### Optical beam

<b>Beam divergence</b>	1 mrad (1/e) nominal; elliptical beam with aspect < 3
<b>Unconditional NOHD*</b>	700 meters (10 sec exposure / 3.06 mW/cm² AEL)
<b>Conditional NOHD</b>	0 meter (laser rangefinder protected)
<b>Beam diameter</b>	2 × 10 mm (at exit)
<b>Useful range</b>	Up to 1000 meters (irradiance of >0.5 mW/cm²)
<b>Safety</b>	CDRH Class 4 device (10 W) Power control via LRF; 40 millisecond response time
<b>Rangefinder</b>	1550 nm laser diode 40 ms response time (~25 Hz rep rate) Class 1M eye safe 0.9 mrad divergence Collinear to R beam within 0.15 mrad typ
<b>Boresighting</b>	External az-el accessory with 0.25 mil resolution and 45 mil range

### Package

<b>Housing</b>	Aluminum, black Fully environmentally sealed
<b>Mode/safety switch</b>	Rotary switch: enable/disable and mode selection
<b>Actuation</b>	Momentary fingertip dome switch Remote tapeswitch jack; long tapeswitch included
<b>Indicator</b>	Two LEDs (green and red)
<b>Protective cap</b>	Integrated bikini-style protective cover
<b>Mounting</b>	Dual lever-actuated quick-release Picatinny (ML-STD-1913) rail clamp

### Power

<b>Power Source</b>	6 × CR123A batteries (3 volt lithium)
<b>Battery life</b>	Worst-case 200 5-second pulses (25 C, >650 meters, 10 W) Typical 1000 pulses (25 C, 200 meters, 1W)
<b>Warm-up time</b>	None
<b>Turn-on/rise time</b>	~40 milliseconds after actuation
<b>Dissipation</b>	4 W typical (200 meters); 19 W max (>650 meters)

### Other

<b>Storage temperature</b>	-20 to +55 C
<b>Ruggedness</b>	<ul style="list-style-type: none"> <li>• Designed to meet MIL-STD-810G requirements</li> <li>• Fully environmentally sealed</li> </ul>
<b>Included accessories</b>	<ul style="list-style-type: none"> <li>• Long-gun remote tape switch</li> <li>• Azimuth-elevation mount</li> <li>• Batteries</li> <li>• Manual, test data</li> </ul>

\*Nominal Optical Hazard Distance



v 2.1



ALFALIGHT™

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