

# ALFALIGHT™

# NLOD

## Non-Lethal Ocular Disruptor

**330 mW green  
laser light**



**Full power from -20 to 45°C**

**Visual suppression of targets  
from 20-700 m**

**Hailing and warning to 2 km**

**Eye safe from 20 m (NOHD)**

**Consistent impact over full  
temperature range**

**Ruggedized to MIL-STD-810G**

*Vehicle checkpoints* ✦

*Convoy protection* ✦

*Maritime security* ✦

*Visual suppression* ✦

*Distance hailing/warning* ✦

*Crowd control* ✦



**Reliability.**

**Performance.**

**Innovation.**

# NLOD

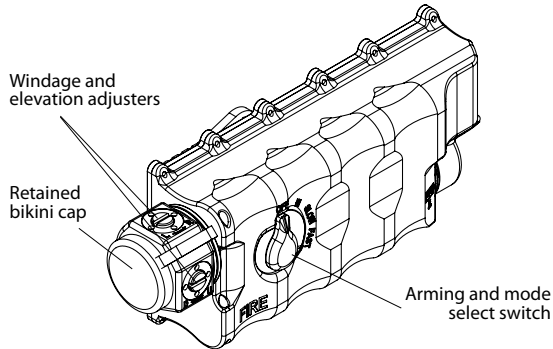
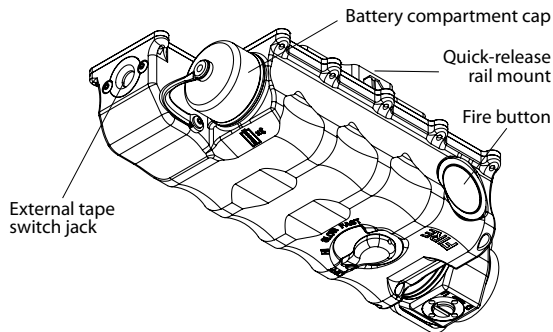
## Non-Lethal Ocular Disruptor

# PRODUCT SPECIFICATION

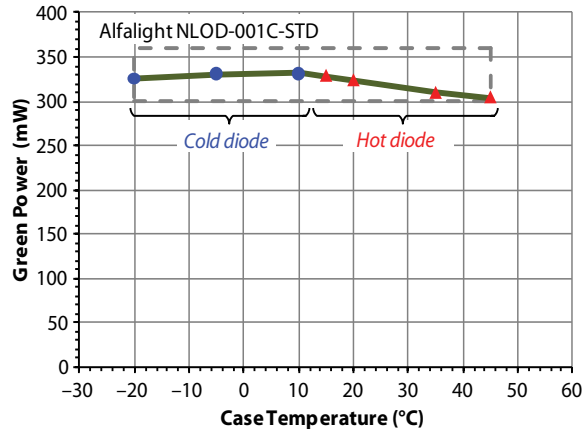
## Alfalight NLOD-001C-STD

### Key Features

- >300 mW of green laser power
- Stable power over -20 to +45°C
- Long battery life
- Rugged, sealed housing
- Meets MIL-STD-810G



### Laser Power over Temperature



### Key

<b>Power</b>	330 mW (nominal)
<b>Power stability</b>	10% all-inclusive conditions
<b>Wavelength</b>	532 nm
<b>Operating temp</b>	-20 to +50°C (-4 to +122°F)
<b>Operating modes</b>	HIGH (continuous on), SLOW (2 Hz), FAST (6 Hz)
<b>Size</b>	160 x 64 x 40 mm (6.2 x 2.5 x 1.6 in)
<b>Weight</b>	385 g (13.6 oz) including rail mount, batteries, cap, az-el adjusters

### Optical Beam

<b>Beam divergence</b>	9 mrad (1/e)
<b>NOHD*</b>	20 meters
<b>Beam quality</b>	$M^2 < 2$
<b>Beam diameter</b>	~4 mm at exit
<b>Useful range</b>	20 to > 2000 meters
<b>Safety</b>	IEC Class 3B device (< 500 mW) Meets ANSI Z136.1 when used as indicated
<b>Beam steering</b>	Fully integrated, compact windage-elevation adjusters 1 mil bore adjustment accuracy, 1 adjustment range

### Package

<b>Housing</b>	Aluminum, Type III hard anodized, finger swelts
<b>Mode/safety switch</b>	Rotary switch: enable/disable and mode selection
<b>Actuation</b>	Momentary fingertip dome switch; remote tapeswitch jack
<b>Protective cap</b>	Integrated bikini-style cover
<b>Mounting</b>	Lever-actuated, fast-action (< 5 sec) quick-release MIL-STD-1913 Picatinny rail clamp

### Power

<b>Power Source</b>	3 × CR-123A batteries (3 volt lithium)
<b>Battery life</b>	2 hours nominal (25°C) > 1 hour extreme (-20 / 45°C)
<b>Battery life, standby</b>	> 1 year (enabled / ON) Unlimited (disabled / OFF)
<b>Warm-up time</b>	None required (0 seconds)
<b>Turn-on time</b>	Instant (< 5 milliseconds)

### Other

<b>Audible noise</b>	None (0 dba SPL @ 0 meters)
<b>Ruggedness</b>	Meets MIL-STD-810G requirements Fully sealed: immersion to 3 meters (10 feet); salt spray Shock: mechanical, thermal, drop Vibration: transport & gunfire

\*NOHD = Nominal Optical Hazard Distance



**ALFALIGHT™**

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