

ALFALIGHT™

NLOD-2

Non-Lethal Ocular Disruptor

**Consistent operation
from -4 to +122°F**



**330 mW green
laser light**

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

Hailing and warning to 2 km

Eye safe from 20 meters (NOHD)

Always instant-on

Weights just 7 ounces

Vehicle checkpoints ⊕

Convoy protection ⊕

Maritime security ⊕

Visual suppression ⊕

Distance hailing/warning ⊕

Crowd control ⊕



Reliability.

Performance.

Innovation.

NLOD-2

Non-Lethal Ocular Disruptor II

PRODUCT SPECIFICATION

Alfalight NLOD-002A-STD

Key Features

- 330 mW of optical power
- Operating range of -20°C to $+50^{\circ}\text{C}$
- 2 hour battery life
- Rugged, sealed housing
- Meets MIL-STD-810G

Windage and elevation adjusters



Quick-release rail mount

Retained bikini cap

Battery compartment cap



External tape switch jack

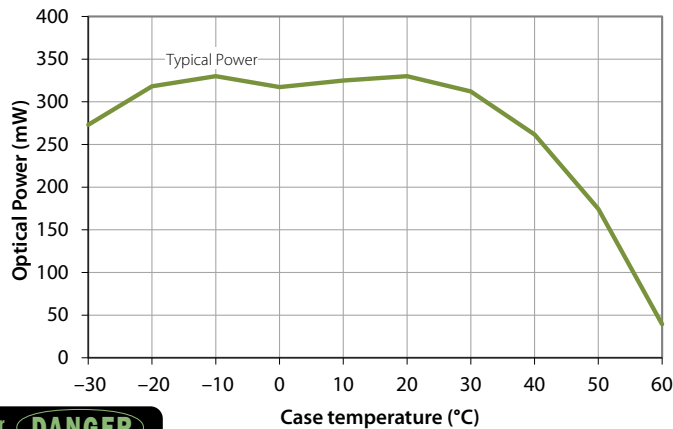
Firing and battery indicator

Arming and mode select switch

Fire button

Lanyard eyelet

Thermal Performance



Key specifications

Power	330 mW (nominal)
Wavelength	532 nm
Operating temp	-20 to $+50^{\circ}\text{C}$ (-4 to 122°F)
Operating mode	CW (continuous), slow pulse (2 Hz), fast pulse (8 Hz)
Size	$95 \times 65 \times 33$ mm ($3.7 \times 2.6 \times 1.3$ in)
Weight	7 oz (200 g) with batteries, rail mount, az-el, caps 5.8 oz (165 g) without batteries

Optical beam

Beam divergence	8 mrad via integrated telescope (1/e)
NOHD*	< 20 meters (0.25 sec exposure / 2.55 mW/cm^2 AEL)
Beam diameter	~ 0.6 mm (at exit, 1/e)
Useful range	beyond 2000 meters (irradiance of $> 0.2 \mu\text{W/cm}^2$)
Safety	CDRH Class 3B device (< 360 mW) Training mode (< 5 mW) via attenuator
Boresighting	Integrated windage-elevation adjusters 1 mil bore adjustment accuracy, $\pm 1^{\circ}$ (± 18 mil) range

Package

Housing	Aluminum, desert tan color, fully sealed
Mode/safety switch	Rotary switch: enable/disable and mode selection
Actuation	Momentary fingertip dome switch; double-tap for persistent output Remote tapeswitch jack; short tapeswitch included
Indicator	Recessed multi-color LED: green = standby, red = firing, amber = low battery
Protective cap	Integrated bikini-style protective cover Has integrated training mode filter
Mounting	Thumbscrew-actuated, integrated Picatinny (MIL-STD-1913) rail clamp

Power

Power Source	$2 \times$ CR-123A batteries (3 volt lithium)
Battery life	> 2 hours operating ON time (25°C) (high mode, 30 s ON / 150 s OFF cycle)
Turn-on/rise time	Instantaneous output upon firing Full power < 1 second after firing
Standby warm-up**	0 seconds for case temperature 5 to 50°C 2 - 45 seconds for case temperature -20 to 5°C
Battery life, standby	> 5 years (OFF) 6 months (enabled, 5 to 55°C) 2 - 12 hours (enabled, -20 to 5°C)

Other

Storage	-35 to $+65^{\circ}\text{C}$
Ruggedness	<ul style="list-style-type: none"> Meets MIL-STD-810G standards Fully sealed: 2 meters (6.6 feet) immersion, salt spray Shock: mechanical, thermal, drop Vibration: transport & gunfire
Included accessories	<ul style="list-style-type: none"> Long-gun remote tape switch Vertical pistol grip Batteries, carry case Manual, test data
Options	Holographic day sight
Lifetime	5,000 h MTBF

* Nominal Optical Hazard Distance

** Time from mode switch rotated from OFF to enabled setting (HI / SLOW / FAST)

v 3.4



ALFALIGHTTM

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