

ELOP SERPENT

Portable Lightweight Designator / Rangefinder
For Laser-Guided Munitions



Main Advantages & Features

- Very compact and lightweight system based on state-of-the-art, diode pumped technology
- Built-in electronic compass GPS and tactical computer for target location
- "Single soldier" portable system
- Increased designation range
- Reduced lifecycle costs, increased system uptime
- Passive cooling for high reliability and silent operation
- Reduced battery consumption
- Data link to the thermal sight, remote data transmission and test equipment
- Ruggedized, to meet and exceed harsh environmental conditions IAW MIL-STD-810
- Standard external rails for add-on devices

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Applications

- Close Air Support (CAS) designation and ranging missions
- Forward Observers (FO) operation
- Forward Air Control (FAC) missions

Main Modules

- Designator head
- Pan & tilt head
- Tripod
- Battery
- Remote firing switch



Technical Data

Designation range			
- Tank target	> 8 Km	Basic designator head	
- Large target	> 11 Km	- Weight	10.2 lbs / 4.63 kg
Rangefinder performance		- Dimensions	12.52 x 9.86 x 5.77 in. / 318 x 250 x 146 mm
- Minimum range	200 m	Targeting location	
- Maximum range	20,000 m	- Built-in GPS	
Range accuracy	5 m	- Built-in electronic compass	
Range logic	First, last, range gate	- Built-in tactical computer	
Laser characteristics		Options	
- Wavelength	1.064 μ m (option for 1.57 μ m)	Embedded 1.57 μ m wavelength for:	
- Beam divergence	0.20 mRad(typical)	• Eyesafe training	
Sighting system		• Other capabilities	
- Objective diameter	45 mm	Embedded pointer for target hand-off	
- Direct view mag.	x 8	Built-in laser spot camera	
Field of View (FOV)	5.6°	Embedded video display (second eyepiece)	
Diopter range	-4D to + 5D	Add-on thermal sight	
		Remote tactical computer	
		Test equipment	



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