

Thermal Imager + See-Spot Laser Designator/ Range-Finder, Direct View Optics Assembly



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PRODUCT OVERVIEW

ALST's Scarab is a state of the art diode-pumped Nd:Yag laser target designator capable of true terminal guidance missions with energies greater than *80 mJ. Direct view optics and optional thermal imager + see-spot capability enables the user with real-time feedback of laser-to-target illumination and eliminates the need for complex or time-consuming boresighting procedures.

At 12 kilograms total system carry weight, including backpack, tripod, batteries and remote control, Scarab-TILD-A is ideal for users demanding a compact and portable solution for 24/7 long-range standoff laser target designation and range finding. The thermal + see-spot option provides exceptional detection and recognition capabilities and is well matched with the Elite-LDR laser designator-range-finder. This compact ruggedized design enables covert target detection, identification and terminal guidance in the most demanding environments.

FEATURES

- *Diode Pumped Nd:Yag 80 - 120 mJ @ 1064 nm
- Mid-wave IR thermal imager + see-spot with mission data display
- Lightweight single man portable: <12 kg, <26 lb total carry weight
- PRF: 8-20 Hz (NATO Band I/Band II STANAG 3733 Compliant)
- External (12-32 VDC) and battery powered
- Up to 60 minutes of continuous designation from a single battery
- >7X magnification day scope with mission data display
- Integrated display and keypad user interface



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SYSTEM SPECIFICATIONS

Size:	24.2L x 26.6W x 6.6H cm 9.5"L x 10.4"W x 2.6"H
Weight:	<4.5 kg, <9 lbs
Operating Temperature:	-32°C to +49°C
Mechanical Interface:	Three point fixed mount or rail
User Interface:	Manual rear panel and remote control firing
Environmental:	MIL-STD 810G
EMI/EMC:	MIL-STD 461F

LASER MODULE PERFORMANCE

Laser Type:	Nd:Yag
Wavelength:	1064 nm
*Pulse Energy:	80-120 mJ
Beam Divergence:	200 (±50) µRad
Designation Range:	>5 km
Range Gate:	100 m – > 5 km
Range Logic:	First/Last

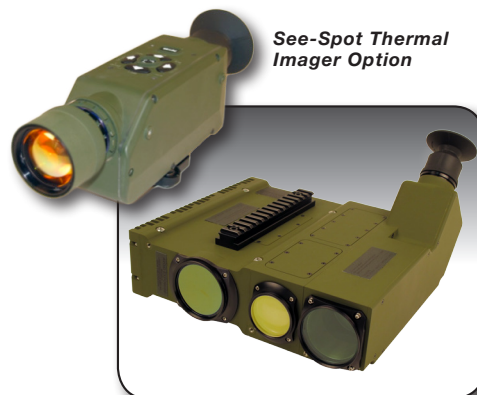
THERMAL IMAGER PERFORMANCE

Type:	640 x 480, 12 micron, cooled mid-wave infrared with see-spot
Display:	White hot/black hot, 2X/4X e-zoom, internal reticle
Detection Range:	>5 km (2.3 x 2.3 m target)
Recognition Range:	>3 km (2.3 x 2.3 m target)
Weight:	<1 kg, <1.8 lbs
Dimensions:	22.9L x 7.6W x 6.3H cm 8.98"L x 2.98"W x 2.48"H
Power:	External or CR-123 internal battery powered
Features:	On-screen mission data display

DAY SCOPE PERFORMANCE

Magnification:	>7x
Field of View:	>5°
Features:	On-screen mission data display

* Subject to export restrictions



*Laser Designator/Range-Finder,
Direct View-Optics Module*



L-3 ALST's products are listed under category XII(b) of the United States Munitions List. International Traffic In Arms Regulations (ITAR) requires a valid export license prior to technical or hardware shipments or transmissions of information.



Warrior Systems

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