

Optronics and Missile Electronics

SOPHIE LITE

Lightweight Multifunction Surveillance & Target Locator



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Day & Night Observation Capability

- Sophie Lite is a hand held, lightweight, fully integrated multifunction system which allows the user to detect, recognise, identify & locate targets. It can be used stand alone to provide all necessary target location data or easily integrated into a separate battlefield management system
- The state-of-the-art design and low power processing architecture adopted by Sophie Lite has resulted in the product weight being a class leading 1.6kg for the Monocular variant and 1.7kg for the Bi-Ocular variant

Applications

- Indirect Fire Control (Mortar, Artillery, Air)
- Reconnaissance
- Surveillance
- Force protection
- Homeland security

Features & Benefits

- Monocular or Bi-Ocular versions available
- High Resolution Thermal Imager (8-12µm) & TV sensors (NIR performance is an option) delivering high performance & image quality for day & night observation
- Lightweight for hand held use
- Bluetooth interface option
- Eyesafe laser pointer option
- Advanced Target Management, Classification & Image Storage which can be exported via communication channels
- Video recording & image storage within an intuitive user friendly interface maximising operator effectiveness in battlefield situations
- Silent operation & fast start up time facilitating high tempo & covert operations
- ITAR free
- Accessories: Soft tactical bags, hard logistics containers, external cables, remote control unit & tripod with pan & tilt head

Technical Specification

Thermal Imager (Uncooled)

Sensor Type	640 x 480
Spectral Band	8-12µm
Field of View	7°
Image Stabilisation	Yes
Autofocus	Yes
E Zoom	x3
Image Fusion	With TV sensor

TV Sensor (And NIR Option)

Field of View	6° and 3°
Image Stabilisation	Yes
Autofocus	Yes
E Zoom	Yes

Laser Rangefinder

Laser type	Diode laser
Wavelength	1550nm
Range	Up to 4km
Accuracy	<5m
Eye Safety	Class 1

GPS

Internal:	Internal is C/A code, with optional P(Y)code
External:	Supports DAGR/PLGR Performance

Digital Magnetic Compass

DMC Type:	Gyrocompass 0.5° (1σ)
Inclinometer Type:	Gravity Sensor 0.1° (1σ)

Physical

Dimensions	181 x 190 x 87 mm
Weight	1.6kg (Monocular) 1.7kg (Bi-Ocular)

Power / Life

Input Range	7v to 20v
Internal	Lithium AAs >6 hours (TV mode) >4hrs (TI mode)
External Battery	>24hrs BB2590

Outputs

Display	800x600 OLED
External Video	SVGA (PAL/HDMI/Ethernet options)
Image/video	100 images, record to USB
External interfaces	PWR, RS422, Ethernet, USB, Bluetooth (option)

Environmental

Operating Temp.	-32°C to +52°C
Qualification	MIL STD 810G MIL STD 461F

Acoustic Noise

Aural Non Detectable	10m
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Range Performance

