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.
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

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
- External Video
- 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

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.

SOPHIE LITE
Lightweight Multifunction Surveillance & Target Locator

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