

## 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

OPTRONICS AND MISSILE ELECTRONICS

## SOPHIE LITE

Lightweight Multifunction Surveillance & Target Locator





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# SOPHIE LITE

## Lightweight Multifunction Surveillance & Target Locator

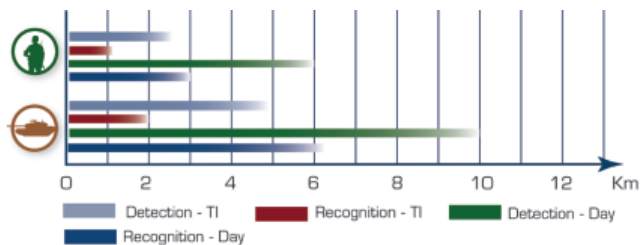
### APPLICATIONS

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

### FEATURES & BENEFITS

- > Monocular or Bi-Ocular versions available
- > High Resolution Thermal Imager (8-12 $\mu$ m) & 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

### RANGE PERFORMANCE



### TECHNICAL SPECIFICATION

#### THERMAL IMAGER (UNCOOLED)

- > Sensor Type 640 x 480
- > Spectral Band 8-12 $\mu$ m
- > 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° (1 $\sigma$ )
- > Inclinator Type: Gravity Sensor 0.1° (1 $\sigma$ )

#### 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)  
>24hrs BB2590
- > External Battery

#### 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