SOPHIE LITE
Lightweight Multifunction Surveillance & Target Locator

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. Sophie Lite utilises a Visual TV camera and TI camera that provide a 24 hour capability and target discrimination, combined with GPS, LRF and orientation sensors to provide a multifunction capability. NIR performance is an option on the TV camera. An eyesafe laser pointer option is also available.
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: 1.6 kg

POWER / LIFE

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

OUTPUTS

- Display: 800x600 OLED
- External Video: SVGA(PAL/HDMI options)
- Image/video: 100 images, 1hr record save
- 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

- High Resolution Thermal Imager (8-12μm) & TV sensors (NIR performance is an option) delivering high performance & image quality for day & night observation.
- Lightweight (1.6kg) 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.

OPTRONICS

SOPHIE LITE
Lightweight Multifunction Surveillance & Target Locator

THALES UK – 1 Linthouse Road, Glasgow, G51 4BZ – Tel: +44 (0)141 440 4000 - Fax: +44 (0)141 440 4001 – E-mail: sales.optronics@uk.thalesgroup.com

THALES HAS A POLICY OF CONTINUOUS DEVELOPMENT AND IMPROVEMENT AND CONSEQUENTLY THE EQUIPMENT MAY VARY FROM THE DESCRIPTION AND SPECIFICATION IN THIS DOCUMENT. THIS DOCUMENT MAY NOT BE CONSIDERED AS A CONTRACT SPECIFICATION. GRAPHICS DO NOT INDICATE USE OR ENDORSEMENT OF THE FEATURED EQUIPMENT OR SERVICES.

© Thales 2012

Ref: SophieLite_Civil_02_14

Range Performance

- Detection - Ti
- Recognition - Ti
- Detection - Day
- Recognition - Day

km