



## SOPHIE UF

Multifunction Surveillance & Target Locator



### Integrated Multi-function Solution

#### APPLICATIONS

- Infantry Fire Control (MFC, FOO, JTAC)
- Target Detection and Recognition
- Reconnaissance
- Surveillance
- Force Protection
- Homeland Security

#### FEATURES

- High Resolution Uncooled Thermal Imager (8-12 $\mu$ m)
- High Performance Optical Day Sight (x6)
- Miniature Eye-safe Laser Rangefinder
- Internal P(Y) code or C/A code GPS
- Digital Magnetic Compass
- Advanced Target Management (including Fall of Shot and Target Cueing)
- Advanced intuitive user-friendly interface



The Eyes of the Modern Soldier

# SOPHIE UF

## Multifunction Surveillance & Target Locator

### Overview

Sophie UF revolutionises Surveillance, Reconnaissance and Target location operations.

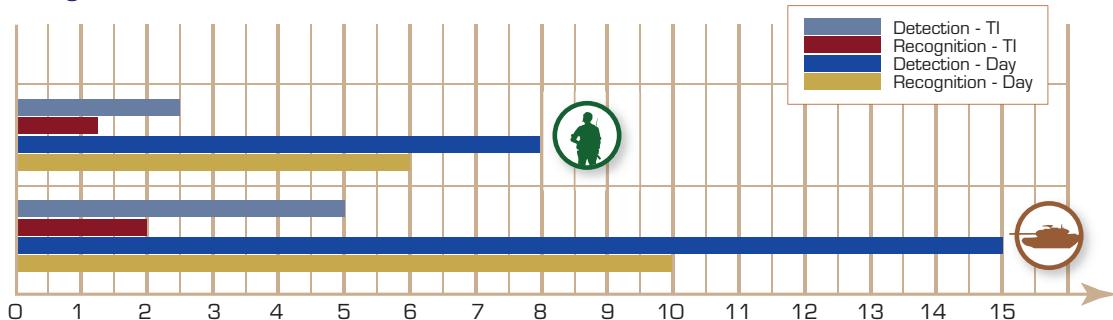
Sophie UF is a hand-held, lightweight, fully integrated multi function system, which allows the user to detect, recognise, identify and locate targets. The system provides silent operation, advanced target management and storage capability and battle winning functionality including "fall of shot correction" and "target cueing". This combined with its intuitive user-friendly interface and leading edge technology makes Sophie UF the preferred in-service hand-held Target Locating system for the UK Army.



### Features and Benefits

- High Resolution Thermal Imager (8-12  $\mu\text{m}$ ) & Optical Day Sight delivering unmatched range performance and image quality.
- Lightweight & hand-held, reducing fatigue & enabling users the freedom to utilise safe observation positions & move rapidly between tasks.
- Advanced Target Management, Classification and Image Storage which can be exported via communications
- Target cueing function allowing rapid re-acquisition of previous targets, improving situational awareness.
- Silent operation & fast into action (start-up) time facilitating high tempo & covert operations.
- Intuitive user-friendly interface maximising operator effectiveness in battlefield situations.
- Provided with an optional set of operational accessories eg soft tactical bags, hard logistic containers, external cables, tripod & pan & tilt head.

### Range Performance



### Technical Specifications

#### Thermal Imager

Sensor Type	640 x 480 (VOx or Amorphous Silicon)
Spectral Band	8-12 $\mu\text{m}$
Field of View	7°
E Zoom	3 x
Autofocus	

#### Optical Day Sight

Magnification	6 x
Field of View	7°

#### Laser Rangefinder

Laser type	ErYb:Glass
Wavelength	1535nm
Range	20m - 19995m

#### GPS

Internal:	P(Y) code or C/A code.
External:	Supports DAGR/PLGR plug-in.

#### Digital Magnetic Compass/Inclinometer

DMC Type:	Magnetoresistive 0.5° (1 $\sigma$ )
Inclinometer Type:	Gravity Sensor 0.1° (1 $\sigma$ )

#### Physical

Dimensions	205 x 280 x 115 mm
Weight	3.4 kg
Mounting	Quick release mount

#### Power / Life

Internal	LI AAs > 8 hours usage
External Battery	BA5590 or similar >24hrs usage
Vehicle/Generator	AC/DC or DC/DC converter

#### Outputs

Imaging & Data display	Projected into eyepiece
External Video	PAL or NTSC
Connectors	External Power, RS232/422 communications, Video

#### Environmental

Operating Temp.	-31°C to +55°C
Qualification Standard	MIL-STD 810 / DEFSTAN 00-35

#### Acoustic Noise

Aural Non Detectable 5m



## Thales

Land & Joint Systems

1 Linthouse Road, Glasgow G51 4BZ

Tel: +44 (0)141 440 4000 Fax: +44 (0)141 440 4001

sales.optronics@uk.thalesgroup.com