

Sophie Optima The 4-in-1 Target Locator in 2.5kg for Contact Platoon Leaders

Sophie, The experience
for superiority since 1996



Sophie Optima

The 4-in-1 Target Locator in 2.5kg for Contact Platoon Leaders



TACTICAL SUPERIORITY NIGHT AND DAY

Detect sooner, identify further, engage faster. 4-in-1 solution in only 2.5kg with the advantages of uncooled technology & day capability. Sophie Optima opens up the universe of collaborative combat and portable GNSS denied geolocation with unbeatable disruptions. You can rely on it!

APPLICATIONS

- | Contact platoon leaders
- | Homeland Security
- | Integration in land systems
- | Contribution to the collaborative airland bubble

FEATURES AND BENEFITS

- | 4 functions in 1 cyber secured solution < 2.5kg:
 - Day & Night observation
 - Day & Night Target location
 - Smart digital options
- | Uncooled technology advantages at the long range cooled performances (reliability, Stealth, Quick start)
- | **Detect sooner** at a glance with larger IR field of view (22°).
- | **Detect & Identify further by day** with unique glass day channel 7x35 associated with IR image fusion for decamouflage.
- | **Enable Collaborative Combat:** with digital enablers
 - STANAG 4609 video
 - Augmented reality
 - HMI co-designed with users.
- | **Lower through-life costs, be reliable & resilient**
 - Family including shared training, accessories & maintenance.
 - HUMS (maintenance on alert, no scheduled maintenance).
 - High reliability, MTBF > 10 000h
 - Back-up mode, no batteries.

TECHNICAL CHARACTERISTICS

High Definition IR Channel (LWIR)

- | Dual FoV 10°-22°
- | Electronic zoom
- | Resolution: HD

Day Channel

- | Glass day channel 7x35, field of view Ø6°
- | IR image fusion for decamouflage
- | Colour TV channel for recording & transmission
- | Backup mode: stadimetric reticule

Target location

- | Laser Range Finder (eye-safe): 5 km (NATO Tank, visibility 10 km)
- | Digital Magnetic Compass
- | Embedded C/A GPS + external NMEA connection

NIR laser pointer (option)

Seespot & seepointer (options)

- | Laser pointers and designator display

Advanced features

- | MMI optimised for users & configurable
- | Image stabilisation, autofocus, super-resolution
- | Multimode Image Fusion
- | Image & video recording on extractible µSD card
- | Safety features

Power management (*)

- | Rechargeable COTS batteries
- | Battery life:
 - Infinite for observation by day
 - ~8hrs (full functions) according using profile

(*) Integrated battery charger 9-32V

Interfaces

- | USB2 (image & video download)
- | Wi-Fi - Bluetooth
- | Ethernet 1000 Base T: C2, STANAG 4609 video, remote C2
- | Maintenance RS232
- | GPS P/Y friendly (GPSDAGR/PLGR)

Physical characteristics

- | Weight: < 2.5 kg (including battery)
- | Airborne operations friendly
- | Environment: MIL STD 810 & MIL STD 461

Range performance in IR 3°



Range performance in DVO 6°



THALES LAS FRANCE SAS – 2, avenue Gay-Lussac – CS 90502 – 78995 Elancourt Cedex – France

Tel: +33 (0)1 30 96 70 00 – Fax: + 33 (0)1 30 96 75 50 > www.thalesgroup.com <