

Sophie Ultima

The Target Locator dividing
the optronics burden by 3

Sophie, The experience for operational
superiority since 1996

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Ultimate Superiority Night and Day

Detect sooner, identify further, engage faster.

A solution dividing by 3 the tactical leaders' optronics burden they need today to fight with unsurpassed cooled technology and day capability for special and specialized tactical leaders. Sophie Ultima opens up the universe of collaborative combat and portable GNSS denied geolocation with unbeatable disruptions. You can rely on it!

Applications

- Special and specialized tactical leaders
- Homeland Security
- Integration in land systems
- Contribution to the collaborative airland bubble

Features and Benefits

- 4 functions in 1 cyber-secure solution
 - Day & Night observation
 - Day & Night Target location
- Smart digital options
- Detect sooner at a glance with larger IR field of view (20°)
- Identify further, engage sooner and not only recognise
 - Very narrow IR field of view (2.1°) for longer range and positive ID
 - Continuous optical zoom (IR channel): never lose sight of the target
- Detect & Identify further by day with unique glass day channel 7 x 35 associated with IR image fusion for decamouflage
- Designed for the air-land Collaborative Combat, thanks to a state-of-the-art connectivity and ad hoc NATO standards
- High accuracy geolocation capability (TLE1 CE 90)
- GNSS denied resilience
- Cyber-secure by design: secured access, integrity check, user data protection
- Scalability
 - eXtension concept for mission/function package and future capability upgrades
 - Open, modular architecture for easy customisation
- Reliability and lower through-life costs
 - Family including shared training, accessories & maintenance
 - High reliability, MTBF > 10,000 h
 - Back-up mode, no batteries



Technical Characteristics

IR Channel (MWIR)

- IR Field of View:
 - Optical continuous zoom 20°-3°
 - Optical boost 2.1°
- Sensor resolution: 640 x 512, 15 µm

Day Channel

- Glass day channel 7 x 35, 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): 7.5 km on NATO tank (option 10 km)
- Digital Magnetic Compass
- Embedded C/A multi-constellation GNSS + external NMEA connection

NIR laser pointer (option)

Easy customisation through add-on concept for plug & play added features and scalability

Advanced features

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

Power management

- Rechargeable COTS battery with capacity adapted to all missions
- Battery life:
 - Infinite for day observation
 - >4 h (full functions) depending on user profile
- Integrated battery charger 9-32 V

Interfaces

- USB 2 (image & video download)
- Bluetooth, Wi-Fi
- Ethernet 1000 Base T (C2, remote maintenance)
- HD-SDI
- DAGR/PLGR RS232

Physical characteristics

- Weight: 2.7 kg (with 4 h battery)
- Airborne operations friendly
- Environment: MIL STD 810 & MIL STD 461

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