CONNECTED TARGETING

> Acquire and locate targets in one click, day and night, even on the move
> Outstanding range performance thanks to a high resolution VGA (640x512) detector and a smart zoom (2°-20°)
> MWIR (3-5μm) spectral band for ultimate range in small sizes
> User friendly: autofocus, image stabilisation, intuitive Man-Machine interface…
> Ready to use high level functions: fall of shot correction, quick memory erase…
> Ready for System integration: USB, Ethernet, RS-422, analogue and Digital HDMI video output
> Mission reporting and evidence: 2Go of images with metadata and video capture
> Safe storage mode (protected by PIN Code)
SOPHIE-XF/VGA  
Hand-Held MWIR Long Range Target Locator

OVERVIEW

SOPHIE-XF/VGA is a long range Day/Night Target Locator with outstanding image quality associated to autofocus continuous optical zoom and image stabilisation allowing continuous target observation and accurate target location in one click, even on the move.

APPLICATIONS

- Platoon leaders
- Special Forces
- Fire Support (FAC/JTAC & FOB)
- Search & Rescue
- Integration in systems such as ATGM, LTD, Surveillance or Target Acquisition Systems on tripod, gunshot detection systems, mast mounted on-board vehicles etc.
- Homeland Security

FEATURES AND BENEFITS

- VGA (640x512) sensor allows outstanding image quality and 3x more surface observed for increased situational awareness
- EasyLoc: on the move observation and target location thanks to high performance image stabilisation and high power single pulse Laser allowing Laser Range Finding even in stabilisation mode.
- Smart zoom allowing field of view optimisation from 20° (short distance for urban operation) to 2° (for long range operation), and continuous target observation without blanking.
- Ready for system integration and image/data transmission thanks to “open world” interfacing (USB, Ethernet ...) such as video transmission through Rover 5i (hand-held transceiver from L3COM) and ST@R MILLE (advanced radio for soldier from Thales), and data/images on Mobile Phone Network (ISTAR-G PDA).

TECHNICAL CHARACTERISTICS

IR channel
- Spectral band: MWIR (3-5 μm)
- Field of view:
  - Continuous optical zoom:
    - WFoV: 20° x 15° (magnification 1.6x)
    - NFoV: 3° x 2.2° (magnification 10.7x)
  - Built-in optical booster: 2° x 1.5° (mag. 16x)
  - Electronic zoom: 2x & 4x
- Turn-on time (cool-down): 5 min 30 typical

Colour TV channel
- Field of view: 3.7° x 2.8°

Eye-safe Laser range-finder:
- True Laser, single pulse, range > 10 km

Digital Magnetic Compass:
- Azimuth accuracy: 1°
- Elevation accuracy: 0.2°

GPS receiver: Integrated C/A GPS+ external NMEA connection

Mission reporting:
- Images and video capture: 1000 pictures, 2gb
- Direct memory download on USB stick

Video outputs:
- CCIR analogue video, HDMI digital video

Remote control:
- RS-422 serial data link, Ethernet, USB

Battery life: > 5.5h

Weight: 3.2 kg

Size: 335 x 310 x 105 mm

Temperature range
- Operating: -32 °C to +55 °C

Smart maintenance
- Internet remote maintenance

Range performance in NFOV with actual targets

Detection
Recognition
Identification

Range performance in NFOV with actual targets

2 4 6 8 10 12 14 16 18 km