

# SOPHIE-XF/VGA Hand-Held MWIR Long Range Target Locator

Sophie, the experience  
for superiority since 1996



# SOPHIE-XF/VGA

## Hand-Held MWIR

### Long Range

### Target Locator



#### THE ULTIMATE TARGET LOCATOR

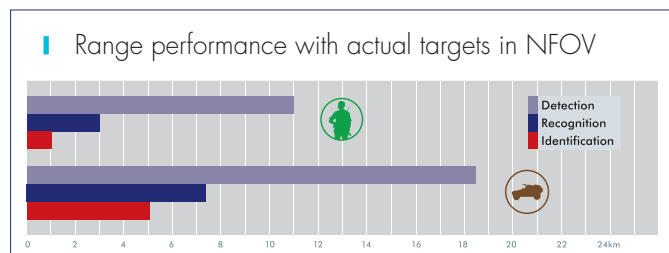
Because night vision is spreading Sophie-XF/VGA with its unique image quality, ultimate range and better situational awareness offers you the tactical advantage. Design around wide aperture continuous optical zoom and high performance LRF, Sophie-XF/VGA offers robustness in all conditions and harsh environments.

#### 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 3° (magnification 8.6x 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 (ISTARG PDA).



#### TECHNICAL CHARACTERISTICS

##### IR channel (MWIR)

- Spectral band: MWIR (3–5  $\mu\text{m}$ )
- 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° (magnification 8.6x)

##### 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

##### Laser Pointer (option)

##### Mission reporting:

- Images and video capture: 1000 pictures, 2 Go
- 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 (without battery)

**Size:** 340 / 260 / 130 mm (with eye cup)

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

**Smart maintenance:** Internet remote maintenance.