

# SOPHIE-MF Hand-Held LWIR Long Range Target Locator

Sophie, the experience  
for superiority since 1996



# SOPHIE-MF

## Hand-Held LWIR

## Long Range Target

## Locator



### COMPLETE HAND-HELD SURVEILLANCE & TARGET LOCATION SYSTEM

Seeing in all conditions is your priority ? Thanks to its LWIR technology Sophie-MF gives you the advantage to go through "obscured battlefield" such as fog, oil smoke and dust penetration but also against the sun target detection and improved daytime target recognition. Associated with a high performance Laser Range Finder, Sophie-MF is the Long Range Target Locator for the battlefield.

### 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

- LWIR cooled technology** for the "obscured battlefield": insensitive to battlefield obscurants, solar dazzle etc.
- 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.

### ACCESSORIES

- Tripods, displays
- Rechargeable batteries
- Battery chargers
- AC or DC converters

- Narrow FoV (2°) tele-converter
- Wide FoV (20°) tele-converter for operation in urban area
- Transmission and tele-operation
- Integrated Hand-Held Display / remote control box (POP6)

### TECHNICAL CHARACTERISTICS

#### IR Channel (LWIR)

- Spectral band: LWIR (8-12  $\mu$ m)
- Field of view:
  - WFoV: 8° x 6°
  - NFoV: 3.2° x 2.4°
  - Electronic zoom (2x): 1.6°x1.2°
- Turn-on time (cool-down): 5 min

#### Colour TV channel:

- Field of view: 3.7° x 2.8° (magnification 8.6x)

#### Eye-safe Laser range-finder:

- High performance single shot
- Range out to 10 km

#### Magnetic Compass:

- Azimuth accuracy: 0.5°
- Elevation accuracy: 0.2°

**GPS receiver:** Integrated + external connection (PLGR)

**Laser Pointer 830 nm (option):** eye safe

**Weight:** 3.5 kg (without battery)

**Size:** 330 / 260 / 120 mm (with eye cup)

**Video output:** 625 lines or 525 lines (SMPTE 170M)

**Power supply:** Battery or external power supply

**Battery life:** > 4h with rechargeable battery

**Remote control:** RS-422 serial data link

**Temperature range:** Operating: -40 °C to +55 °C

**Environmental conditions:** Fully ruggedised / MIL-STD-461 and MIL-STD-810 - Military wheeled vehicles

