

FULL HAND-HELD SURVEILLANCE & TARGET LOCALISATION SYSTEM

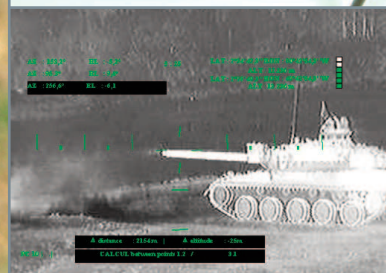
- ▷ Day & night, passive operation
- ▷ High resolution, 754 x 576 stabilised image
- ▷ Multi-function
 - Thermal Imager
 - Magnetic compass
 - Colour daylight camera
 - Laser Range Finder (Eye-Safe)
 - Internal GPS (+ external connection)
 - Laser pointer (Eye-Safe)
- ▷ Image capture, mission reporting
- ▷ Detection of camouflaged targets
- ▷ 8-12 μm spectral band, insensitive to solar dazzle and battlefield obscurants



LONG RANGE MULTI-FUNCTION BINOCULARS
THERMAL IMAGER

SOPHIE-MF

DEFENCE
HOMELAND





LAND DEFENCE

SOPHIE-MF

Long Range Multi-Function Binoculars/Thermal Imager

CHARACTERISTICS

Thermal imager

Spectral band: 8-12 μm

Field of view (FoV)

- Wide FoV: $8^\circ \times 6^\circ$
- Narrow FoV: $3.2^\circ \times 2.4^\circ$
- Electronic zoom (x2): $1.6^\circ \times 1.2^\circ$

Image resolution: 754 x 576

Thermal sensitivity (NETp): < 50 mK

Axis stability: < 0.6 mrad

Eye safe laser range-finder

- Range out to 10 km
- High performance single shot

Magnetic compass

- Elevation: 0.2°
- Azimuth: 0.5°

GPS receiver

- Integrated + external connection (PLGR)

Colour daylight camera (option)

- FoV: $3.7^\circ \times 2.8^\circ$

Laser pointer 830 nm (option)

- Eye safe

GENERAL CHARACTERISTICS

Weight: < 3.5 kg

Size: 310 x 250 x 110 mm

Video output

- 625 lines or 525 lines (SMPTE 170 m)

Power supply

- Battery or external power supply

Battery Life

- > 4 hours with rechargeable battery

Remote control

- RS 422 serial datalink

Cooling

- Integrated micro-cooler, rotative Stirling type

Cooling down time

- < 5 min

Internal display

- OLED

Temperature range

- Operating: -40°C to $+55^\circ\text{C}$

Environmental conditions

- Fully ruggedised / MIL STD 461 and MIL STD 810 - Military wheeled vehicles

ACCESSORIES

- Tripods, displays
- Rechargeable batteries
- Battery chargers
- AC or DC converters
- Narrow FoV (2°) tele-converter
- Wide FoV (20°) teleconverter for operation in urban area
- Transmission and tele-operation
- Integrated Hand-Held Display/remote control box (POP6)

