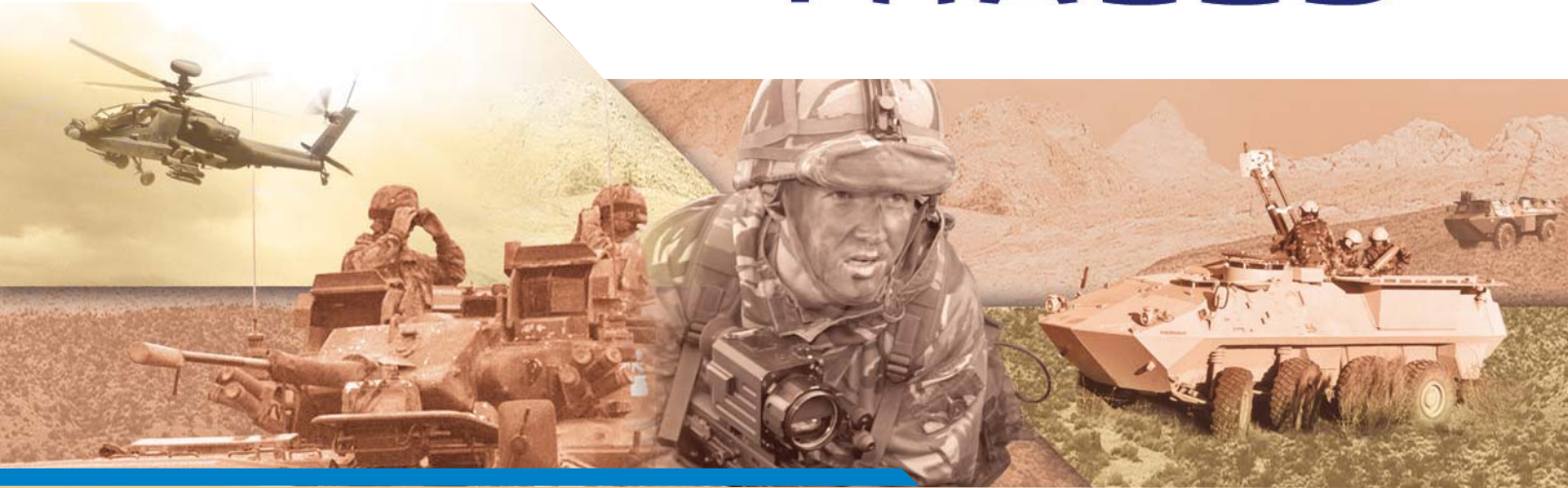


THALES



SOPHIE MF

Long Range Multi-Function Binoculars/Thermal Imager



Full Hand-Held Surveillance & Target Localisation System

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

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

MAGNETIC COMPASS

- Elevation : 0.2°
- Azimuth : 0.5°

GPS RECEIVER:

- Integrated + external connection (PLGR)

COLOUR DAYLIGHT CAMERA

- FOV = $3.7^\circ \times 2.8^\circ$

LASER POINTER 830 nm

- Eye safe

GENERAL CHARACTERISTICS

Weight:

- < 3.5 kg

Size:

- 31 x 25 x 11 cm

Video output:

- 625 lines or 525 lines (SMPE 170 m)

Power supply:

- 15 VDC

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:

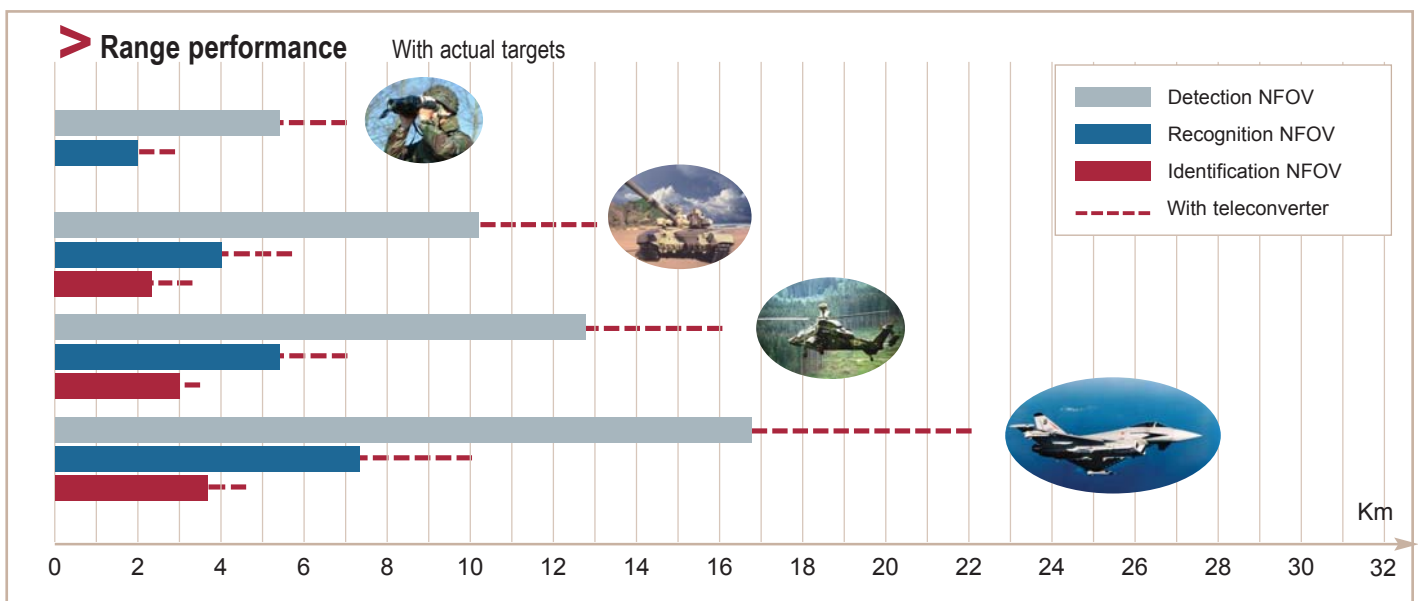
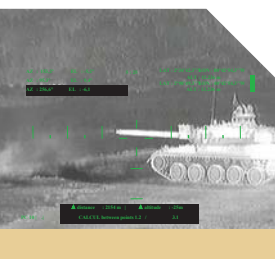
- Operating : -40°C to $+55^\circ\text{C}$

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
- Optical tele-converters
- Transmission and tele-operation
- Integrated HH display/remote control box



Thales

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