SOPHIE-MF
Long Range Multi-Function Thermal Imaging Binoculars

COMPLETE HAND-HELD SURVEILLANCE & TARGET LOCATION SYSTEM

Sophie MF uses advanced LWIR technology to see in every situation. Effective in fog and rain and even in the dust and oil smoke of the dirty battlefield, this long-range multi-function thermal imager also delivers outstanding detection performance "against the sun" for improved daytime target recognition. Associated with a high performance laser rangefinder, Sophie-MF is the ideal long-range target locator for tactical manoeuvres in all conditions.
SOPHIE-MF
Long Range Multi-Function Thermal Imaging Binoculars

CHARACTERISTICS

Thermal imager
Spectral band: 8-12 μm
Field of view (FoV):
- Wide FoV: 8° x 6°
- Narrow FoV: 3.2° x 2.4°
- Electronic zoom (2x): 1.6° x 1.2°

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° x 2.8°
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 170M)
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
Cooldown time: < 5 min
Internal display: OLED
Temperature range: Operating: -40 °C to +55 °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 aera
Transmission and tele-operation
Integrated Hand-Held Display/remote control box (POP6)

With actual targets
Range performance

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 km
Detection NFoV
Recognition NFoV
Identification NFoV
With NFoV teleconverter

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