FULL HAND-HELD SURVEILLANCE & TARGET LOCALISATION SYSTEM

- Day & night, passive operation
- High 754 x 576 resolution, 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
SOPHIE-MF
Long Range Multi-Functions
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 area
• Transmission and tele-operation
• Integrated Hand-Held Display/remote control box (POP6)

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