CATHERINE-XP
Compact High Performance Thermal Imager

Latest QWIP IR FPA technology

- Full TV resolution
- Compact and readily integrated, compatible with most sighting systems
- Precise boresighting, high axis stability
- Rugged (wheeled or tracked vehicles)
- Day & night, passive operation
- Good detection of camouflaged target
- 8-12 µm spectral band, the proven solution for the battlefield

www.thalesgroup.com/land-joint
Catherine-XP
Compact High Performance Thermal Imager

Main Features:
- 8-12 µm: unaffected by battlefield obscurants and solar dazzle
- Small size allows easy integration in most sights, including light armoured vehicles
- Benefits of the latest technology of Quantum Well Infra-red Photo-detection (QWIP)
  - Available in configuration:
    - 4°/10°
    - 3°/9°

Characteristics:
Spectral Band:
- 8-12 µm

Field of view (FOV):
- 3°/9° configuration
  - Wide FOV: 9° x 6.7°
  - Narrow FOV: 3° x 2.2°
  - Electronic zoom (x2): 1.5° x 1.1°
- 4°/10° configuration
  - Wide FOV: 10° x 7.5°
  - Narrow FOV: 4° x 3°
  - Electronic zoom (x2): 2° x 1.5°

Image resolution:
- 768 x 576

Thermal sensitivity:
- NETp < 20 mK

Boresighting:
- Axis stability < 0.1 mrad

Weight:
- < 3 kg

Size:
- 258 x 172 x 100 mm

Video output:
- 625 lines, 50 Hz

Power supply:
- 20 - 30 VDC, < 30 W, MIL-1275 B

Remote control:
- RS 422 serial datalink or CANBUS
- RS 232 serial datalink (maintenance)

Cooling:
- Integrated Stirling rotary micro-cooler

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

Environment condition:
- Fully ruggedised / MIL STD 461 and MIL STD 810 - Military wheeled or tracked vehicles

Range performance with actual targets:

- Detection NFOV 3°
- Recognition NFOV 3°
- Detection WFOV 9°
- Identification NFOV 3°

Km