CATHERINE-QW
Compact high performance thermal imager

- 24 hour operation
- Passive operation
- Good detection of camouflaged target
- Rugged
- Easy integration in all types of sights
- 8-12 μm, the proven solution for the battlefield
CATHERINE-QW
Compact high performance thermal imager

Main features
- 8-12 µm: unaffected by battlefield obstructions 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
- Available in 4°/10°, 3°/9° configuration and 2°/5° with teleconverter for extended range

Characteristics
Spectral Band:
- 8-12 µm
Field of view (FOV)-CCIR:
- 4°/10° configuration
  - Wide FOV: 10° x 7.5°
  - Narrow FOV: 4° x 3°
  - Electronic zoom [x2]: 2° x 1.5°
Thermal sensitivity:
- NETp < 20 mK
Boresighting:
- Axis stability < 0.1 mrad
Weight:
- 2.5kg

Size:
- 217 x 172 x 100 mm
Video output:
- CCIR (525 lines, 50 Hz)
  or SMPTE 170M (525 lines, 60 Hz)
Power supply:
- 20 - 30 VDC, 30 W
Remote control:
- 1 serial port RS 422
- 1 serial port RS 232 (maintenance)
Cooling:
- Integrated Stirling rotary micro-cooler
Temperature range:
- Operating: -40°C to +55°C
Mechanical environment:
- Military wheeled or tracked vehicles
Electromagnetic environment:
- IEM/CEM tested to NATO standards
Reliability:
- MTBF > 2500 h

> RANGE PERFORMANCE  With actual targets

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

With teleconverter