

WHEN UNCOOLED TECHNOLOGY IS NOT ENOUGH

- ▷ Sensor Pack: MWIR + TV + LRF + Laser pointers
- ▷ Long range
 - ▷ Tank ID > 3.3 km
 - ▷ Soldier ID > 1.5 km
- ▷ Smart zoom 1.4°-22°
- ▷ 22° WFoV for Local Situational Awareness and urban operations
- ▷ MIL-SPEC



LONG RANGE THERMAL IMAGER FOR WEAPON STATIONS AND TURRETS

KATE-LR





KATE-LR

Long Range Thermal Imager for Weapon Stations and Turrets

OVERVIEW

Kate-LR is a full multifunction version of Catherine-WS thanks to an add-on pack including an eye-safe Laser Range Finder, TV channels, laser pointers and a GPS.

APPLICATIONS

- Remote Controlled Weapon Stations (RCWS)
- Above armour gunner sights
- Land Recce

FEATURES AND BENEFITS

- **"All-in-one" fully integrated sensor pack** for easy vehicle integration and maintenance offering:
 - MWIR high performance sensor
 - High resolution colour and NIR TV
 - Eye-safe Laser Range Finder
 - Laser pointers
 - GPS
- **Cooled IR technology** allows to increase the range over what is accessible to uncooled technology while maintaining small optics to avoid breakages and repair costs. Moreover, better sensitivity of cooled technology will offer better range performance under adverse atmospheric conditions.
- **Continuous optical zoom** allows optimized resolution to optimize resolution on the observed scene, reducing target acquisition time.

TECHNICAL CHARACTERISTICS

IR channel

- Spectral band: MWIR (3-5 μm)
- Built-in optical booster: 22.5°
- Continuous optical zoom: 15° to 2.5°
- Built-in optical booster: 1.4°
- Electronic zoom: 2x

TV Channel

- High resolution (HD) colour sensor: 1600 x 1200
- High resolution (HD) NIR sensor (option): 1280 x 1024
- Continuous optical zoom 22°-2.5° + electronic zoom

Laser Range Finder

- Eye-safe
- Range 3 km (option 10 km)

Laser Pointer (options)

- 850 nm eye-safe class 1 / IEC 60825
- Second Laser Pointer (option)

Boresighting: Axis stability < 0.25 mrad

Autofocus, image stabilisation

Mission reporting: 2 Gb storage capacity

Video output:

- CCIR analogue video output
- SDI digital video
- Streamed video on Ethernet link

Power supply:

20-30 VDC, < 25 W, MIL-STD-1275B

Command and control: RS-422 serial datalink

Weight: < 10 kg

Size: 260 x 180 x 240 mm

ENVIRONMENTAL CONDITIONS

Operating temperature: -32 °C to +55 °C

MIL-SPEC

