WHEN UNCOOLED TECHNOLOGY IS NOT ENOUGH

▷ 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
▷ Autofocus
▷ Precise boresighting, high axis stability
▷ MIL-SPEC

LONG RANGE THERMAL IMAGER FOR WEAPON STATIONS AND TURRETS

CATHERINE-WS
OVERVIEW
Catherine-WS has been designed to propose an alternative solution between uncooled TI and traditional cooled TI for Weapon Stations and Turrets.

APPLICATIONS
- Remote controlled Weapon Stations (RCWS)
- Commander’s Sights
- Land Recce

FEATURES AND BENEFITS
- **Cooled 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 to optimize resolution of the observed scene, reducing target acquisition time.
- **Large aperture** F/3 allows to take full benefit from latest gen. 15 μm pitch detector and maintain high performance even in cold climates.

TECHNICAL CHARACTERISTICS
- **Spectral Band:** MWIR (3-5 μm)
- **Field of view (FoV):**
  - Built-in Optical Booster 22.5°
  - Continuous optical zoom 15°-2.5°
  - Built-in Optical Booster 1.4°
  - Electronic zoom 2x
- **Thermal sensitivity:** NETD < 50 mK
- **Boresighting:** Axis stability < 0.25 mrad
- **Autofocus:** Automatic focusing after zooming or upon request
- **Image stabilization mode**
- **Mission reporting**
  - Image and video acquisition: 1000 images / 2 GB

PHYSICAL SPECIFICATION
- **Video output:**
  - CCIR analog video output
  - HDMI or 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:** < 5 kg
- **Size:** 250 x 180 x 120 mm

ENVIRONMENTAL CONDITIONS
- **Operating temp.:** -40 °C to +55 °C
- **Environment condition:** MIL-SPEC