ALL-IN-ONE SENSOR PACK FOR EASY INTEGRATION AND MAINTENANCE

Sensor Pack: LWIR + TV + LRF + Laser pointers + GPS

Tactical range:
- Tank ID > 1.8 km
- Soldier ID > 0.75 km

Dual field of view for urban operations
Analogue or Digital video output
Full MIL-SPEC

KATE-TR
Tactical range sensor pack for RCWS and turrets
KATE-TR
Tactical range sensor pack for RCWS and turrets

Overview
Kate-TR is a Tactical Range Sensor Pack for Remote Controlled Weapon Stations (RCWS) and turrets. Designed around the well-established TIM-TR thermal imager family, Kate-TR offers a high performance, “all in one” easy integration solution to turret manufacturers.

Applications
- Fire Control / Target location / Observation

Features and benefits
- “All in one” Sensor Pack for easy integration and maintenance offering:
  - LWIR uncooled high performance sensor
  - High resolution colour TV sensor
  - Eyesafe Laser Range Finder
  - Laser pointers (option)
  - - GPS (option)
- Uncooled technology for short turn-on time, high reliability and low whole life cost.
- VGA (640x480) latest uncooled technology with 17 µm pitch for 3x more resolution than current 384x288 products at reduced cost, size and weight.
- Dual field of view:
  - 4.2° for range performance
  - 12.7° for local situational awareness and urban operations
- Analogue or Digital video:
  - Analogue video output for legacy
  - Digital video output for ultimate performance and networking
- Full MIL-Spec. design for military wheeled or tracked vehicle

Technical Characteristics
- IR channel
  - VGA (640x480) latest uncooled technology
  - Spectral band: LWIR (8-12 µm)
  - Dual Field of view:
    - Wide FoV: 12.7° x 9.5°
    - Narrow FoV: 4.2° x 3.1°
- TV Channel
  - High resolution (HD) colour sensor: 1600 x 1200
  - Field of view as IR channel + e-zoom
- Laser Range Finder
  - Eyesafe
  - Range 10 m - 5 km (option 10 km)
- Laser Pointer (options)
  - 850 nm eyesafe class 1 / IEC 60825
  - Second Laser Pointer (option - 650 nm or other)
- Boresighting: Axis stability < 0.25 mrad
- Autofocus, image stabilisation
- Mission reporting: 2 Gb storage capacity
- Video output:
  - IR and TV video output in parallel
  - Analogue video: CCIR
  - Digital video: SD-SDI (IR) and HD-SDI (TV)
  - Streamed video on Ethernet link
- Power supply:
  - 20-30 VDC, < 20 W, MIL-STD-1275
- Command and control: RS-422 serial datalink
- Weight: < 10 kg
- Size: 266 (L) x 176 (W) x 214 (H) mm

Environmental conditions
- Operating temperature: -32 °C to +55 °C
- MIL-SPEC: Fully ruggedised / MIL-STD-461 and MIL-STD-810, Military wheeled or tracked vehicles