CORAL-CR
Advanced Hand-Held 3-5μm Lightweight Thermal Imaging Camera with Continuous Optical Zoom and Target Acquisition Capabilities

Selected by Several NATO Countries

Main Advantages & Features
- Continuous IR optical and digital zoom
- Long-range performance
- Advanced high resolution detector
- Integral eyesafe LRF, day CCD cameras, digital magnetic compass, integral GPS
- Real-time target acquisition and target coordinate calculation
- Real-time target data transmission of coordinates to external device
- Target image and data storage memory
- Advanced high resolution color OLED display
- Adjustable binocular viewer
- Low acoustic noise

Applications
- Infantry, scouts and special units
- Security and perimeter defense
- Target acquisition systems for infantry commanders
- Night sight and target acquisition for Future Soldier
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Options

- Add-on x2 telescope
- Integral laser pointer
- Clip-on laser pointer

Technical Data

**Thermal Imager:**
- Spectral band: 3-5µm
- Entrance aperture: 40 mm
- Fields of view (continuous zoom):
  - Narrowest: 2.5° x 2.0° (CCIR)
  - Widest: 12.5° x 10.0° (CCIR)
- Digital zoom (E-zoom): up to x4
- Detector:
  - Type: InSb FPA
  - No. of elements: 640 x 512
- Cooler: Stirling closed cycle
- Video signal: CCIR or RS170
- Display:
  - Miniature, high resolution color OLED
- Viewer: Adjustable binocular

**LRF:**
- Type: Erbium Glass
- Wavelength: 1.54µm
- Laser safety: Eyesafe (Class 1)
- Output energy: 2 mJ
- Max. pulse rate: 6 ppm

**GPS:**
- Integral (external GPS optional)

**Digital Magnetic Compass (DCM):**
- Azimuth accuracy: 0.7°
- Elevation accuracy: 0.7°
- Displayed angle format: Deg/Mil (User Selectable)

**Power source options:**
- Disposable, Rechargeable, External AC/DC or DC/DC
- Weight: 3.4 kg (incl. battery)

**Environmental conditions:**
- IAW MIL-STD-810F
- Operating temperature: -30 °C - +55 °C

**Range Performance:**

- Recognition in NFOV
- Detection in NFOV

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