FALCONEYE
ELECTRO-OPTICAL SENSOR SYSTEM

THERMAL CAMERA
DAYLIGHT CAMERA
EYE-SAFE LASER RANGE FINDER
LASER TARGET POINTER
DIGITAL COMPASS AND GPS
**FALCONEYE**

Electro-Optical Sensor System

**Applications**
- Land Applications
- Long Range Surveillance and Reconnaissance
- Operations Demanding Accurate Positioning
- Upon Tripod Use
- Artillery and Fire Command Posts

**Main Features**
- High sensitivity and accuracy
- Rugged and Compact Structure
- Easy Mount and Dismount
- High Resolution Image
- Freeze Frame Feature
- Electronic Zoom Capability
- Electronic Symbology or Reticle on Image
- Built in Test Capability
- External Video Output
- Meets Environmental Requirements per MIL-STD-810

**Technical specifications**

**Thermal Imaging system**
- Spectral Band: Long Wave IR
- Narrow FOV: 2° x 1.5° ±10%
- Wide FOV: 6° x 4.5 ° ±10%
- Detector: 288 x 4 HgCdTe (MCT) Focal Plane Array

**Day TV Sensor**
- Wide FOV: >10°
- Narrow FOV: < 1°
- Video Output: CCIR, 50 Hz

**Eye Safe Laser Range Finder**
- Laser Type: Erbium-Glass
- Laser Wavelength: 1.54 μm
- Measurement Range: Up to 20 km
- Measurement Accuracy: 5m (1 sigma)

**Laser Pointer**
- Wavelength: 830 nm
- Power: > 10 mW
- Operation Modes: Pulse / Continuous

**Digital Magnetic Compass**
- Azimuth Accuracy: 23 mils (RMS)
- Elevation Accuracy: 5 mils (RMS)
- This unit sets it’s own position by utilizing GPS satellite network with a positioning accuracy of 10m.

**Environmental Conditions**
- Operating Temperature: -30°C , +50°C
- Storage Temperature: -40°C , +60°C
- Standard: MIL-STD-810