

**aselsan**

# 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 Reticule on Image
- Built in Test Capability
- External Video Output
- Meets Environmental Requirements per MIL-STD-810

### Standard Accessories

- Operator Control Unit
- Pan and Tilt Unit
- Tripod
- Battery and Charger
- Cable Sets
- Operator's Manual
- Soft Carrying Case
- Shipping / Storage Case

### Technical specifications

#### Thermal Imaging system

- Spectral Band : Long Wave IR
- Narrow FOV :  $2^\circ \times 1.5^\circ \pm \%10$
- Wide FOV :  $6^\circ \times 4.5^\circ \pm \%10$
- Detector : 288 x 4 HgCdTe (MCT)  
: Focal Plane Array

#### Day TV Sensor

- Wide FOV :  $>10^\circ$
- Narrow FOV :  $< 1^\circ$
- Video Output : CCIR, 50 Hz

#### Eye Safe Laser Range Finder

- Laser Type : Erbium-Glass
- Laser Wavelength : 1.54  $\mu\text{m}$
- Measurement Range : Up to 20 km
- Measurement Accuracy : 5m (1 sigma)

#### Laser Pointer

- Wavelength : 830 nm
- Power :  $> 10 \text{ mW}$
- 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 :  $-30^\circ\text{C}$  ,  $+50^\circ\text{C}$
- Storage Temperature :  $-40^\circ\text{C}$  ,  $+60^\circ\text{C}$
- Standard : MIL-STD-810

