

FALCONEYE IRST

HIGH RESOLUTION
ELECTRO-OPTICAL SENSOR SUITE

LONG RANGE DETECTION/RECOGNITION/IDENTIFICATION/DESIGNATION

HIGH DEFINITION (HD) THERMAL/TV VIDEO OUTPUT

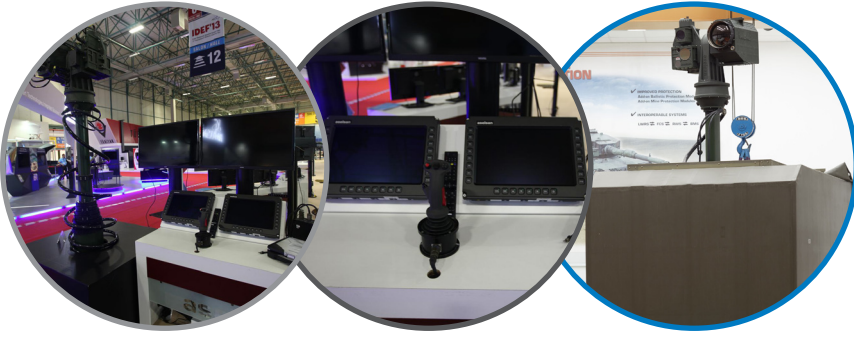
RANGE FINDING AND OPTIONAL DESIGNATION

LOW LATENCY HD-SDI VIDEO OUTPUT

MODULAR, DURABLE AND COMPACT

360° SURVEILLANCE





FALCONEYE IRST

HIGH RESOLUTION ELECTRO-OPTICAL SENSOR SUITE

Applications

- Border Surveillance
- Coastal Surveillance
- Reconnaissance
- Fixed and Mobile Security
- Situational Awareness
- Long Range Surveillance
- Law Enforcement

Main Features

- High Definition (HD) Thermal Camera
- High Definition (HD) Daylight Camera
- Lazer Range Finder
- High Stabilization Accuracy
- High Pointing Accuracy
- Surveillance over a deployable MAST
- 8 - 12 um IR Thermal Detector
- Daylight Camera (with NIR sensitivity)
- Automatic & Manual Image Processing Algorithms
- Target Acquisition and Designation (optional)
- Infra Red Search and Track Function (IRST)
- 360° and Region of Interest Surveillance
- 2m /3m /5 m MAST options
- Compatible with Mobile applications (Reconnaissance)
- Compatible with Stationary applications (Surveillance)
- Built In Test of the System
- Inertial Navigation System (optional)
- Remote Command and Control
- Military Grade Environmental & Electromagnetic Compatibility
- Maintains Regulated Power for External Camera/Laser Range Finders
- Suitable for 365/7/24 usage (with external UPS)
- Built specifically for Commercial and Military Surveillance and Reconnaissance

Environmental Conditions

- Operating Temperature : -32°C, +55°C
- Storage Temperature : -45°C, +65°C
- Standard : MIL-STD-810 G

Technical Specifications

Thermal Camera Specifications

- FOV : (Wide) 12.0° x 7.6°
: (Narrow) 3.6° x 2.3°
- Digital Zoom : 2x/4x @ all FOVs
- Cooler Type : Linear
- Scanner : 25 scan per second
- Resolution (active pixels) : 1920x1080 (1690x576)
- IR Sensor : 7 x 576
- IR Band : 8-12µm

Daylight Camera Specifications

- Resolution : 1280x720 / 1920x1080
- FOV (w 2x extender)(opt.) : 1.0° - 10.0° Cont. (720p)
: 1.3° - 5.0° Cont. (1080p)
- FOV (w/o extender) : 2.0° - 30.0° Cont. (720p)
: 2.9° - 40.0° Cont. (1080p)
- Digital Zoom : Continuous Zoom + 8x
- Sensor Typer : 1/2.8" CMOS

Laser Range Finder Specifications

- Type : Class 1, Eye safe
- Range : 100m-20,000m ± 5m
- Pulse per Minute : 20 ppm
- Type : 1064 nm
- Range : 100m-20,000m ± 5m
- Pulse per second : 20 pps

Pan & Tilt Director Unit Specifications

- Stabilization Accuracy : < 0.1 mrad
- Pointing Accuracy : < 0.05 mrad
- Horizontal DOF : nx360°
- Vertical DOF : +70° / -20°

MAST Specifications

- Height : 2 m - 3 m -5 m
- Mechanism Electrical Drive (Cont.)

System Specifications

- Positioning : GPS aided INS (optional)
- Video Output : 2 x HD-SDI / 1 x Analog
- Remote Command/Control : RS 422
- Feed Voltage : 18 VDC - 32 VDC

