



DRAGONEYE

Electro-Optic Sensor System

The DRAGONEYE Electro-Optical Sensor System uses advanced technologies and offers different sensors into one compact and modern design for surveillance and reconnaissance applications. It includes a high-performance thermal camera and day/night camera which can acquire targets at extensive ranges thanks to high sensitivity sensors and image enhancement algorithms. Once a target is acquired, the DRAGONEYE can pin point the target location using a highly accurate GPS, digital magnetic compass, and laser range finding system. The remote control unit with touchscreen can operate the motorized pan and tilt unit at user defined sensitivity levels and enable automatic tracking of motion detection.

Capabilities

- Mid-wave sensor
- HD color TV
- Continuous zoom (IR and day)
- Integrated LFR, DMC, and GPS network-enabled
- Auto target-tracker
- Still image capture/video record



Contact our engineers to discuss your application

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Applications

- Border surveillance
- Coastal surveillance
- Reconnaissance
- Situational awareness
- Long range surveillance
- Law enforcement

Main Features

- Continuous optical zoom
- Digital video outputs
- Automatic motion detection
- Automatic image optimization and image enhancement
- Coordinates of target are calculated in real time
- Advanced user interface

Environmental Conditions

Operating temperature	-32°C to +55°C
Storage temperature	-40°C to +65°C
Environmental spec	MIL-STD-810 G

Standard Accessories

- Motorized pan & tilt
- Tripod
- Tough book
- LCD monitor
- External battery and battery charger



Technical Specifications

Thermal Imager	
Sensor	Cooled, 640 x 512 15µm
Spectral band	MWIR (3-5 µm)
Cool-down time	< 7 min [(Q)23°C)
E-zoom	x2
Gain/brightness control	Automatic or manual
Focus	Manual
Different lens versions	x1, x2

		X1	X2
Field of view	NFOV	1.8°x1.44°	0.9°x0.7°
	MFOV	10°x8°	5°x4°
	WFOV	30°x24°	15°x12°
	Continuous Zoom Lens	OK	OK

Laser Range Finder	
Class 1, Eye safe	MIL-STD-810 G
Range	MIL-STD-810 G
Accuracy	MIL-STD-810 G
HD-Color TV	
Sensor	CCD
Field of View	3 Preset FOV
	Continuous from NFOV to WFOV
E-zoom	x12
Digital Magnetic Compass	
Accuracy	3° rms
GPS	
Accuracy	15 rms
Power Interface	
Power Input	18V-33V
Video Interface	
Digital	Ethernet, HD-SDI
Communication Interface	RS-422, 1000 Ethernet

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