

# ELIOS OS Series



**ELIOS Series OS** Eldor short/mid/long range observation systems provide an innovative solution for Homeland Security applications. The system is designed for 24/7 surveillance and reconnaissance tasks such as:

- ▶ Border Control
- ▶ Airports
- ▶ Coastal Surveillance
- ▶ Critical Mission Vehicles & Vessels
- ▶ Perimeter Security

**ELIOS Series OS** is a modular and scalable observation system equipped with dual sensors Thermal & CCD cameras, Laser Range Finder (LRF) mounted on remote controlled and highly precise Pan Tilt Unit.

**Pan Tilt Unit** is designed for continuous use in harsh environments conditions:

- ▶ Stabilized module for vehicle / marine vessel applications.
- ▶ 360° full rotation using Slip Ring mechanism
- ▶ Proportional motor speed according to camera zoom position
- ▶ Manual or automatic control for target tracking following given radar or map coordinates.

**Thermal Camera:**

- ▶ High sensitivity, cooled / un-cooled, long wave thermal imager sensor

- ▶ Single field of view lens, Dual or cont. zoom
- ▶ Automatic focus capability
- ▶ Day or night use

**CCD Camera:**

- ▶ Color and black / white CCD camera
- ▶ Built in optical zoom X36 / X55
- ▶ Digital zoom X12
- ▶ Video image electronic stabilization

**LRF – Laser Range Finder (optional)**

- ▶ Range to target measurements
- ▶ Eye safe, invisible to human eye
- ▶ Measurement range up to 12 km

**Our end-to-end solutions line includes:**

- ▶ Integrated perimeter intrusion detection systems such as Radars, Sensors, Video Analysis and more.
- ▶ Mobile Observer – turn-key border patrol vehicle
- ▶ Mobile Command Post – Front Command, Event Management vehicle
- ▶ Quick deployment kit – observation system, wireless communication, battery operated
- ▶ Command & Control application

**Eldor Communication Technologies Ltd** is a leading provider of diverse solutions for Defense & Security systems. **Eldor** is an Integrator specialized in implementation of turn-key projects or as a supplier of subsystems components.

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# ELIOS os Series



Elios SR-250

## **Thermal Channel, Detection & Recognition Distances:**

**Elios SR250**, short range system, Detection of Human target 3,500 meter, FOV 4.6° Detection of NATO target 7,000 meter.

**Elios MR225**, Mid range system, patrol Detection of Human target 6,000 meter, FOV 2.8° Detection of NATO target 10,000 meter.

**Elios LR2SRF**, Long range system, coastal surveillance and border control. Detection of Human target 13,000 meter, FOV 1.3° Detection of NATO target 22,000 meter.



Elios MR-225

### **Thermal Imager**

**Sensor format:** VOX or Asi microbolometer, 3-5 / 8-14  $\mu\text{m}$  Spectral band ▶ 640X480 ▶ Spectral band: 8-14  $\mu\text{m}$  ▶ NETD: <50° mK (f#1 optics) ▶ Focus control: Automatic ▶ Electronic zoom: 2X, 4X ▶ Black hot / white hot control

### **Day Camera (color/BW)**

#### **Sensor type:**

1/4" / 1/2" type Ex view HAD CCD ▶ Approx 440,000 Pixels (PAL)

#### **Lens:**

Zoom: 36X / x55 Optical / 12X Digital ▶ Angle of view: 57.8° to 0.2° ▶ Focus control: Auto/manual ▶ S/N ratio: better then 50 dB



Elios LR-2S

### **PAN / TILT unit**

**PTU type:** Zero Backlash, Slip Ring ▶ Azimuth range: 360° continuous ▶ Elevation range: -90° to +40° ▶ Minimum Pan speed: 0.05° sec ▶ Maximum Pan speed: 60° Second ▶ Preset accuracy: 0.0075° ▶ Maximum load: 25 Kg.

### **General**

Power: 24VDC ▶ Environment: IP65 ▶ Operating temp: -10°/+50° Ext range -20°/+55° ▶ Interface: RS485 / 422 / Pelco D ▶ Weight: 10Kg ▶ Single / Dual video output

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