ELiOS ES-250

ELiOS ES-250 **Eldor** Integrated Observation system is designed for 24/7 surveillance and reconnaissance tasks such as:
▷ Border control
▷ Air / Sea Ports
▷ Critical Assets
▷ Perimeter Security

ELiOS ES-250 is a mid range, remote controlled dual sensor electro optic system consisting of Pan/Tilt Unit, Thermal and CCD cameras and optional Laser Range Finder.

Pan Tilt Unit is designed for continuous use in harsh environment conditions
▷ Proportional motor speed according to camera zoom position.
▷ Manual or automatic control for target tracking following given radar or map coordinates parameters.
▷ Optional inertial stabilization module for vehicle / marine vessel application.

Thermal Camera:
▷ High sensitivity, un-cooled, long wave thermal imager sensor
▷ Dual field of view lens (Wide or Tele view)
▷ Automatic focus capability
▷ Day or night use

CCD Camera:
▷ Color and black / white CCD camera
▷ Built in optical zoom X 36
▷ Digital zoom X 12
▷ Video image stabilization

LRF (optional) Laser Range Finder:
▷ Range to target measurement
▷ Eye safe, invisible to human eye.
▷ Measurement range up to 8 Km.

Eldor Communication Technologies Ltd is a provider of diverse solutions for the Homeland Security and Defense Systems applications.

Eldor specializes in implementation of turn-key projects and as supplier of sub systems and components to security & defense integrators.

Our solution line includes:
▷ Day & Night, short, mid and long range observation & reconnaissance systems,
▷ Integrated perimeter intrusion detection systems such as Radars, Sensors, Video Analysis and more.
▷ Task Vehicle mounted systems, Observation & Surveillance, 360 degrees self protection, Command & Control console, Wireless LAN, Radio communication and more.

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Thermal Channel, Detection & Recognition Distances:

Wide FOV 12°(H) X 9° (V)

Detection of human target   : 800 Meter
Recognition of human target : 250 Meter
Detection of vehicle target   : 2000 Meter
Recognition of vehicle target : 650 Meter

Narrow FOV 4°(H) X 3° (V)

Detection of human target   : 2,400 Meter
Recognition of human target : 800 Meter
Detection of vehicle target   : 6,000 Meter
Recognition of vehicle target : 2,000 Meter

Distances defined above may vary due to atmospherically conditions

Thermal Imager

Sensor format: *VOX or Asi microbolometer, 320X240 ▶ Optional 640X480 ▶ Spectral band: 8-14 µm ▶ NETD: <50° mK (f#1 optics)*
Lens: *2 X FOV: W 45mm – T 135mm ▶ FOV (45mm): 12°(H) X 9° (V) ▶ FOV (135mm): 4°(H) X 3° (V) ▶ Focus control: Automatic ▶ Electronic zoom: 2X, 4X ▶ Black hot / white hot control*

Day Camera (color/BW)

Sensor type:
SONY FCB EX1010 ▶ ¼ " type Ex view HAD CCD ▶ Approx 440,000 Pixels (PAL)
Lens:
Zoom: 36X Optical / 12X Digital ▶ F=3.4 mm to 122.4 mm ▶ F1.6 to F4.5 ▶ Angle of view: 57.8° to 1.7° ▶ Focus control: Auto/manual ▶ S/N ratio: better then 50 dB

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: 9 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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