

Electro-Optical Sensor

PHEBUS-250



Phebus-250 is a dual sensor, dual field of view, mid-range observation system providing real time awareness and reconnaissance for accurate target acquisition.

High sensitivity, long wave thermal imager sensor, detects vehicle targets at 6 Km in total darkness, dust and smoke.

Day time color CCD camera with 36X zoom lens, provides quality images as video verification to thermal detection or as main daytime camera.

Accurate Pan & Tilt motor allows very slow to fast proportional motion.

It allows target tracking at long range at low speed or short range at high speed. It also has programmable patrol, auto scan and preset tour capabilities.

Features

	Wide FOV	Narrow FOV
• Detection of human target:	800m	2400m
• Recognition of human target:	250m	800m
• Detection of vehicle target:	2000m	6000m
• Recognition of vehicle target:	650m	2000m

Applications

- Border surveillance and protection
- Coastal surveillance and protection
- Critical infrastructure protection

Specifications

Thermal imager

Sensor format : Opgal Eye R 25, 320X240
 Spectral band: 8-14 μ m
 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

PAN / TILT unit

PTU type: Zero Backlash, Slip Ring
 Azimuth range: 360° continuous
 Elevation range: -90° to +40°
 Minimum Pan speed: 0.1°sec
 Auto Pan, Patrol, Preset tour (250)
 Maximum Pan speed: 100° second
 Preset accuracy: 0.02°
 (Limited speed with large lenses)
 Static /Dynamic torque: 20Nm
 Maximum load: 20kg

Day camera (color/BW)

Sensor type: SONY FCB EX1000
 ¼" type Ex view HAD CCD
 Approx 440,000 Pixels (PAL)
 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 than 50 dB

General

Power: 24VDC
 Environment: IP65
 Operating temp: -20°/+60°
 Interface: RS485 / 422 / Pelco D
 Weight: 18kg
 I/O, Ethernet, serial com.
 Single / Dual video output