

Electro-Optical Sensor

PHEBUS-450HD



Phebus-450HD a dual sensor, high resolution both in day & night, 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 with full High Definition MP camera, optical zoom lens and auto focus, provides vivid and sharp images at various light conditions.

Precise Pan & Tilt motor allows extreme 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: Eye R 25 640X480
Spectral band: 8-14µm
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: X1 –X12 cont.

PAN / TILT unit

PTU type: Zero Backlash, Slip Ring opt.
Azimuth range: 350° continuous
Elevation range: -45° to +45°
MinPan speed: 0.0056°/sec
Maximum Pan speed: 60°/sec
Position accuracy: 0.056°
Static / Dynamic torque: 9Nm
MIL STD 810F Environmental IP67, Torque 9 Nm >15kg load
Operating temp: -30 °/+70°

Day camera (color/BW)

Sensor type: 1\2.5" CMOS 4 MP FHD
Approx 4 Million Pixels
Lens: 6.3–63 mm F1.8-2.5
Electronic zoom X 16
Resolution 1920 X 1080
MinLux 0.1 @ BW mode
Output: H.264 / Composite
Focus control: Auto/manual

General

Power: 24VDC, 200 Watt
Environment: IP66
Operating temp: -20°/+60°
Interface: RS485 / 422 / TCPIP
Weight: 12kg
Single / Dual video output