

Electro-Optical Sensor

PHEBUS-VLR2S



Phebus-VLR2S is a dual sensor, observation system both in day & night, providing real time awareness and reconnaissance for long range surveillance application & accurate target position acquisition.

High sensitivity, long wave 640X480 cooled thermal imager sensor with continuous zoom lens up to 275 mm, detects targets at 15 Km away.

Day time camera, optical zoom X36 lens, provides identification at day light condition.

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

- | | <i>Narrow FOV</i> |
|----------------------------------|-------------------|
| • Detection of human target: | 7600m |
| • Recognition of human target: | 2800m |
| • Detection of vehicle target: | 14800m |
| • Recognition of vehicle target: | 7000m |

Applications

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

Specifications

Thermal imager

Sensor format : Cooled InSb 640X480
Spectral band: 3-5 μ m
NETD: <20° mK / F# 5.5
Lens: 22 – 275mm
Focus control: motorized
Electronic zoom: X2 – X4
Black hot / white hot control

PAN / TILT unit

PTU type: Zero Backlash, Slip Ring optional
Azimuth range: 360°continuous
Elevation range: -90° to +90°
MinPan speed: 0.0075°/sec
Maximum Pan speed: 120°/second
Position accuracy: 0.075°
Patrol, Tour, Scan-VMD and trekker, radar target assessment

Day camera (color/BW)

Sensor type: SONY / HITACHI MODULE
¼ " type Ex view HAD CCD
Approx 440,000 Pixels (PAL)
Zoom: 36X Optical / 12X Digital
F=3.4mm to 122mm
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, 200 Watt
Environment: IP66
Operating temp: -20°/ +60°
Interface: Pelco D
Weight: 20kg
Single / Dual video output
Optional – Laser range finder