

Electro-Optical Sensor

PHEBUS-COMPACT



Phebus-Compact is a dual sensor, short range observation system providing real time awareness and reconnaissance for accurate target acquisition.

High sensitivity, long wave thermal imager sensor, detects vehicle targets at 1.6 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

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|----------------------------------|-----------------|
| | <i>Wide FOV</i> |
| • Detection of human target: | 645m |
| • Recognition of human target: | 200m |
| • Detection of vehicle target: | 1600m |
| • Recognition of vehicle target: | 530m |

Applications

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

Specifications

Thermal imager

Sensor format : Asimicro bolometer,
320X240
Spectral band: 8-14µm
NETD: 80°mK (f#1 optics)
Lens: 35mm
FOV 7.3°(H) X 5°(V)
Focus control: motorized
Electronic zoom: 2X, 4X
Black hot / white hot control

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)
Lens: Zoom: 36X Optical/ 12X Digital
F=3.4mm to 122.4mm
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: IP65
Operating temp: -20°/ +60°
Interface: RS485 / 422 / Ethernet
Weight: 18kg
Single / Dual video output