

ELIOS EO LONG RANGE – LR2SRF-600

Elios LR2SRF Long Range EOIR, high-resolution high performance Mid-wave Cooled thermal Imaging observation system with integrated long range FHD TV camera, both mounted and aligned with laser Range finder on a Gyro stabilized pan tilt positioner. Designed for Long range surveillance applications.



Typical Applications:

BORDER PROTECTION / COASTAL MONITORING

ELIOS EOIR LONG-RANGE, Eldor Integrated Observation System, Dual Sensor, thermal and TV camera mounted on Stabilized pan and tilt pedestal, designed for observation and surveillance application at long range, providing real Time situational awareness and accurate target acquisition.

Thermal camera, Cooled, Optical zoom X 22, 30 – 660 mm, High sensitivity mid wave MWIR thermal imager sensor, Detects NATO size targets at 18+ Km in total darkness.

Day time color TV camera, high-performance 1/1.9 CMOS image sensor achieves superb Full HD 1080P (1920 x 1080) picture quality in lowlight environments, 2.38 Mega Pixel sensor with powerful X33 Optical zoom lens 15 – 500 mm.

Accurate Pan & Tilt pedestal with optional stabilization allows very slow to fast PT motion, proportional to zoom, enable target tracking at long ranges with low speed or fast moving objects at short range with high speed motion.

Thermal Camera, Detection & Recognition Distances:

Wide FOV 18.2°(H) X 14.6° (V) Narrow FOV 0.9°(H) X 0.7° (V)

Detection of human target : 14.5 KM

Recognition of human target : 6.3 KM

Detection of Nato target : 19.0 KM

Recognition of Nato target : 11.2 KM

Target size: Human 1.8m x 0.5m & NATO 2.3m x 2.3m. 1LP Detection / 3LP Recognition

Max Range performance are calculated, may vary due to atmospheric conditions and are for reference only.



| Thermal Imager | Day Camera (color/BW) | PAN / TILT unit | General / LRF |
|--|--|---|---|
| Sensor format : 640X512 15µ Spectral band: 3-5 µm NETD: 35° mK (f#1 optics) Cont. zoom: W 30 mm – T 660 mm FOV (30mm): 18.2°(H) X 14.6° (V) FOV (660mm): 0.9°(H) X 0.7° (V) Focus : AF/motorized Black hot / white hot control | Sensor type: 1/1.9 CMOS 1080P, 2.38 Mpx Lens: 33X Optical, F3 – F32 FOV: 15.2 mm to 500 mm Angle of view: 25.6° to 0.81° Focus control: Auto/ manual | PTU type: L shape series, Slip Ring. Azimuth range: >360° Elevation range : -50° to +30° Min Pan speed : 0.05°/S Max Pan speed : Up to 30°/S Max load: 40 Kg. Gyro Stabilization Accuracy ±0.5° (IMU) | Power: 24VDC Typical 250w Environment: IP66 / IP67 Operating temp: -30° / +50° Interface: Elios / Pelco D / ONVIF Weight: 45Kg ----- LRF Laser Range Finder, Class 1M Eye safe, wavelength 1.5µm. Range >10 Km to NATO target w. 30% reflectivity and 90% POD, Precision ~1m, Target discrimination <30m |

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