

Long Range Observation System

LROS



The LROS system is designed to achieve optimal day and night observation objectives, integrating a cooled thermal imager for night observation in complete darkness, a CCD camera for day observation and a laser marker – for target acquisition.

Both sensors are mounted on a robust and highly precise pan and tilt unit, enabling the user to fully control the system from its control unit.

The open frame system can offer different type of equipment installations such as longer-range thermal or day cameras, laser range finder, GPS, laser illuminator/pointer.

- Suited specially for radar application
- Integrated system – professional and precise
- Complete system control from operator console or dedicated software
- Provides day/night observation solution

Features

- Especially designed for long range visual intelligence gathering
- Variety of operational applications: tripod, tower ...
- Friendly user interface (computerized or hard wired)
- Modular and versatile system
- Remote control via wireless, cable, FO communication

Applications

- Border surveillance and protection
- Critical infrastructure protection
- Harbor surveillance

Specifications

Thermal imager

Optical zoom: X8
 Total pixels: 640x512
 Spectral band: 3-5 μ m(cooled)
 Extender: X2
 Pixel Size: 25 μ m

PAN / TILT unit

Operating Angles: pan: 370°
 Speed (°/sec): pan & tilt: up to 50°
 (min 0.056°/sec)
 Load Capacity: Up to 30 kg
 Accuracy: 0.1° in azimuth and elevation

Various options:

- Laser illuminator
- Power xenon illuminator

Day camera (color/BW)

Image sensor: 1/3" interline transfer CCD
 Sensitivity 0.01 lux
 Field of View: 21.7° to 0.4"
 Lens: Zoom, 10-750 mm
 Extender: X2
 Focus range: 5m- ∞

General

Analog video output: Pal/NTSC
 Interface connector: MIL-C-26482 stdr
 Voltage: 24VDC
 Power consumption: Average 100W
 Peak 190W
 Operating temperatures: -20° to 60° C
 Environmental standards: IP67 compliant
 Weight: 20kg