



SEOM

ELECTRO-OPTICAL OBSERVATION SYSTEM

ADVANCED OBSERVATION
FOR ALL ENVIRONMENTS

The **SEOM system** combines three advanced sensors for superior detection, recognition, and identification of long-range targets. Artificial intelligence assists in detection and recognition tasks, making SEOM a versatile solution for both terrestrial and naval applications.



KEY FEATURES

Versatile integration: Adapts to fixed installations, land vehicles, and naval vessels

All-Weather operation: Equipped with a high-resolution day sensor for situational awareness and surveillance

Thermal Channels: Options for both uncooled and cooled thermal channels for rapid availability and high performance

Precision Positioning: Stabilized platform for precise manual and automatic target tracking

Operator Console: Integrated monitor-computer and joystick control for full system capabilities

SENSOR INTEGRATION

High-resolution Day Sensor

Thermal Imaging:
Cooled and uncooled Thermal Channels

High performance with continuous zoom and detection over 22 km

MECHANICAL PARAMETERS

Azimuth rotation:
360° unlimited rotation

Elevation rotation: $\pm 90^\circ$

Stabilized platform for installation in moving vehicles and vessels

Precise manual and automatic tracking

ELECTRICAL PARAMETERS

Standard power supply:
Compatible with various power configurations for flexible deployment

KINEMATIC PERFORMANCE

High-Speed operation:
Rapid positioning for quick target acquisition

Ultra-Slow movement:
Long range objective tracking

Zero backlash transmission:
Smooth and precise movements

ENVIRONMENTAL CAPABILITIES

System operational in accordance with MIL-STD 810G

TECHNICAL SPECIFICATIONS

LWIR CAMERA

Resolution: 640x480, 12 μ m pixel pitch
Frame Rate: 60Hz
Zoom: 3x Discrete
DRI:
Detection 9.1km
Recognition 3.2km
Identification 2.2km

MWIR CAMERA

Resolution: 640x512, 15 μ m pixel pitch
Cooler: Stirling
Frame Rate: 60Hz
Zoom: 20x Continuous (Optics: 40-200mm)
DRI:
Detection 22.7km
Recognition 9.5km
Identification 7.1km

VISIBLE CHANNEL

Resolution: 1920x1080p, 3.45 μ m pixel pitch
Frame Rate: 60Hz
Zoom: 28x Optical
DRI:
Detection 14km
Recognition 9km
Identification 7km

LRF
Range: ≥ 6500 m
Firing Frequency: 1Hz-10Hz
Visible Laser Pointer