

SeaEye-AHTAPOT-S

ELECTRO-OPTICAL RECONNAISSANCE,
SURVEILLANCE AND TARGETING SYSTEM

HIGH PERFORMANCE THERMAL IMAGER
HIGH PERFORMANCE DAYTV / SWIR CAMERA
EYE SAFE LASER RANGE FINDER
OPTIONAL LASER DESIGNATOR
LOW FAILURE RATE AND HIGH SURVIVABILITY





SeaEye- AHTAPOT-S

ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

Applications

- Big Navy Ships
- Surveillance and Reconnaissance
- Fire Control

Main Features

- High Performance IR Camera
- High Performance Full HD TV Camera
- High Performance SWIR Camera
- Eye Safe Laser Range Finder
- Laser Designator (Optional)
- Laser Illuminator
- Automatic Target Detection
- Target Geolocation
- Slave Mode
- Synch. Of Target Details
- Image Optimization
- Image Polarization
- Image Freezing
- Multi Target Tracking
- BIT Function
- Interface with CMS and SDDS
- Accurate Stabilization
- Laser Blackout Signal
- Laser Masking
- Zoom Slaving

Environmental Conditions

- MIL-STD-810G w/Change 1
- MIL-STD-461F

Technical Specifications

Thermal Camera

- Wavelength : MWIR
- Resolution : 640x512
- Horizontal FOV
 - Wide FOV (H) : 13.5°
 - Middle FOV (H) : 6.4°
 - Narrow FOV (H) : 2°
 - Very Narrow FOV(H) : 1°
- Electronic Zoom : 2x,4x
- Focus : Auto, Manual

TV Camera

- Sensor : CCD or CMOS
- Resolution : 1920x1080
- Horizontal FOV
 - Very Wide FOV (H.) : 30°
 - Wide FOV (H.) : 13.5°
 - Middle FOV (H) : 6.4°
 - Narrow FOV (H) : 2°
 - Very Narrow FOV (H) : 1°
- Electronic Zoom : 2x, 4x
- Odak : Auto, Manual

SWIR Camera

- Wavelength : SWIR
- Resolution : 640x512
- Horizontal FOV
 - Wide FOV (H) : 13.5°
 - Middle FOV (H) : 6.4°
 - Narrow FOV (H) : 2°
 - Very Narrow FOV(H) : 1° (with Digital Zoom)
- Electronic Zoom : 2x,4x
- Focus : Manual

Laser Range Finder

- Wavelength : 1570 nm (± 10 nm)
- Range : 300 m - 20 km
- Max. Repetition Rate : 20 Hz

Laser Designator (Optional)

- Wavelength : 1064 nm (± 2 nm)
- Range : 300 m - 20 km
- Accuracy : ± 5 m (1σ)
- Max. Repetition Rate : 20 Hz

Pan&Tilt Unit

- Angular Velocity : 3.0 rad/s
- Stabilization : 2 axis
- Gimbal FOR
- Elevation : -20°/+105°
- Azimuth : 360°, Continuous

Communication

- Interfaces : Ethernet
- Video : Ethernet, HD-SDI, PAL

Power

- Compatibility : STANAG 1008
: MIL-STD 1399

Mechanical Specs

- Gross Weight (kg)
 - EO Suite & Director : ≤ 280
 - Electronic Unit : ≤ 20
- Dimensions (mm)
 - EO Suite & Director : $< 1100 \times 1000 \times 750$
 - Electronic Unit : $< 315 \times 255 \times 455$

