

SeaEye-AHTAPOT

ELECTRO-OPTICAL RECONNAISSANCE
AND SURVEILLANCE SYSTEM

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





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ELECTRO-OPTICAL RECONNAISSANCE AND SURVEILLANCE SYSTEM

Applications

- Surveillance and Reconnaissance
- Fire Control

Main Features

- High Performance IR Camera
- High Performance HDTV Camera
- High Performance Spotter Camera
- Eye Safe Laser Range Finder
- Laser Designator (Optional)
- Automatic Target Detection
- Target Geolocation
- Slave Mode
- Synch. Of Target Details
- Image Optimization
- Image Polarization
- Image Freezing
- Multi Target Tracking
- BIT Function
- Interface with SYS and GVDS
- Accurate Stabilization
- Laser Blackout Signal
- Laser Masking

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° (with Digital Zoom)
- Electronic Zoom : 2x, 4x
- Odak : Auto, Manual

Spotter Camera

- Sensor : CCD or CMOS
- Resolution : 1280x720
- Horizontal FOV: : 0.5°
- Focus : Manuel

Laser Range Finder

- Wavelength : 1.570 μ m
- Range : 300 m - 20 km
- Accuracy : \pm 5 m (1 σ)
- Divergence : \leq 0.7 mrad
- Max. Repetition Rate : 20 Hz

Laser Designator (Optional)

- Wavelength : 1064 nm (\pm 2 nm)
- Range : 300 m - 20 km
- Accuracy : 5 m (1 σ)
- Divergence : \leq 0.7 mrad
- Max. Repetition Rate : 20 Hz

Pan&Tilt Unit

- Angular Velocity : \geq 3.0 rad/s
- Stabilization : 2 axis

Communication

- Interfaces : RS422, Ethernet
- Video : Ethernet, HD-SDI, PAL

Power

- Compatibility : STANAG 1008
: MIL-STD 1399

Mechanical Specs

- Gross Weight (kg)
 - EO Suite & Director : \leq 250
 - Electronic Unit : \leq 20
- Dimensions (mm)
 - EO Suite & Director : <1100 x 1000 x750
 - Electronic Unit : <315x255x455

