AHTAPOT 100

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ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

#ElectroOptics



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, SURVEILLANCE AND TARGETING SYSTEM

Applications
- Large 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

Laser Range Finder
- Wavelength : 1570 nm
- Range : 300 m - 25 km*
- Accuracy : ± 5m (1σ)
- Max. Repetition Rate : 20 Hz

Laser Designator (Optional)
- Wavelength : 1064 nm
- Range : 300 m - 20 km
- Accuracy : ± 5m (1σ)
- Compliant with NATO STANAG 3733

Pan & Tilt Unit
- Angular Velocity : 3.0 rad/s
- Stabilization : 2 axis
- Gimbal FOR
  - Elevation : -27°/+112°
  - 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 (HxLxW) : <1105x975x735
  - Electronic Unit (HxLxW) : <270x375x330

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

Configurations of AHTAPOT

		Configuration I	Configuration II	Configuration III
MWIR Camera	Wavelength	3-5 µm	3-5 µm	3-5 µm
	Wide HFOV	13.5°	13.5°	13.5°
	Middle HFOV	6.4°	6.4°	6.4°
	Narrow HFOV	2°	2°	2°
	Very Narrow HFOV	1°	1°	1°
	Resolution	640x512	640x512	1024x768
	Electronic Zoom	2x,4x	2x,4x	2x,4x
	Focus	Auto and Manuel	Auto and Manuel	Auto and Manuel
TV Camera	Sensor	CCD	CCD or CMOS	CCD or CMOS
	Very Wide HFOV	30°	30°	30°
	Wide HFOV	13.5°	13.5°	13.5°
	Middle HFOV	6.4°	6.4°	6.4°
	Narrow HFOV	2°	2°	2°
	Very Narrow FOV	1°	1°	1°
	Focus	Auto and Manuel	Auto and Manuel	Auto and Manuel
	Resolution	1920x1080	1920x1080	1920x1080
	Electronic Zoom	2x,4x	2x,4x	2x,4x
Spotter Camera	Sensor	CCD	NA	NA
	FOV	0.5°		
	Focus	Manuel		
SWIR Camera	Wavelength	NA	0.9-1.7 µm	0.9-1.7 µm
	Very Wide HFOV		≥16°	≥16°
	Wide HFOV		13.5°	13.5°
	Middle HFOV		6.4°	6.4°
	Narrow HFOV		2°	2°
	Very Narrow HFOV		1°	1°
	Resolution		1280x1024	1280x1024
	Electronic Zoom		2x,4x	2x,4x
	Focus		Auto and Manuel	Auto and Manuel
Laser Illuminator	Wavelength	NA	976 nm	976 nm
	Max. Ligthing Range		2 km	2 km

Specifications are subject to change without any notice. | All tolerances are within ±10%.

* Range Performance of Laser Range Finder is valid for the situation where visibility is 23 km and the entire laser beam falls on the target.

These are the analytical values obtained under the good weather condition [according to NATO STANAG 4347] in which atmospheric transmission is 0.8107.

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