

DENİZGÖZÜ AHTAPOT

ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE
AND TARGETING SYSTEM

HIGH PERFORMANCE THERMAL IMAGER

HIGH PERFORMANCE DAYTV / SPOTTER CAMERA

EYE SAFE LASER RANGE FINDER

OPTIONAL LASER DESIGNATOR

LOW FAILURE RATE AND HIGH SURVIVABILITY



DENİZGÖZÜ AHTAPOT

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

Laser Range Finder

- Wavelength : 1570 nm
- Range : 300 m - 25 km*
- Max. Repetition Rate : 20 Hz

Laser Designator (Optional)

- Wavelength : 1064 nm
- Range : 300 m - 20 km
- Accuracy : ± 5 m (1 σ)

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 (HxLxW) : <1105x975x735
 - Elektronik Unit (HxLxW) : <270x375x330

Environmental Conditions

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

Options of Denizgözü AHTAPOT

		Denizgözü AHTAPOT	Denizgözü AHTAPOT-S	Denizgözü AHTAPOT-S HD
MWIR Camera	Wavelength	3-5 μ m	3-5 μ m	3-5 μ m
	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	Min. 1024x720
	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° (with digital zoom)	1°	1°
	Focus	Auto and Manuel	Auto and Manuel	Auto and Manuel
	Resolution	1920x1080	1920x1080	1920x1080
Spotter Camera	Sensor	CCD	NA	NA
	FOV	0.5°		
	Focus	Manuel		
SWIR Camera	Wavelength	NA	0.9-1.7 μ m	0.9-1.7 μ m
	Very Wide HFOV		$\geq 16^\circ$	$\geq 16^\circ$
	Wide HFOV		13.5°	13.5°
	Middle HFOV		6.4°	6.4°
	Narrow HFOV		2°	2°
	Very Narrow HFOV		1° (with digital zoom)	1° (with digital zoom)
	Resolution		640x512 or 1280x720	640x512 or 1280x720
	Electronic Zoom		2x,4x	2x,4x
Laser Illuminator	Focus		Auto and Manuel	Auto and Manuel
	Wavelength	NA	976 nm	976 nm
	Max. Ligthing Range		2 km	2 km

* Range Performance of Laser Range Finder

- It 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 permeability is 0.8107.

