



## EOTS-I-4 Naval Electro Optical Tracking System



EOTS-I 4 is a passive electro optical firing control for naval artilleries; this system is equipped with visible and thermal cameras and high frequency laser range finder for tracking targets. After positioning the target and locking on it, system tracks target with high precision and sends target data (position, elevation, distance, speed and trajectory of the target) to FCU for firing control operation.

### FEATURES

- Operation during day and night in normal and harsh environment.
- Electromagnetic jamming resistant
- Passive observation, detection and tracking system.
- Tracking of targets by thermal and visible camera up to 20 km
- Range finding of targets up to 20 km
- Stabilization with 500  $\mu$ Rad precision.
- Real time position, distance, elevation, speed information.
- Installable on the warship Class PEYKAN.
- Four second response time.
- Aiming according to the ballistic trajectory calculation
- High speed operation and automatic target tracking algorithm
- Can be linked with FCS, RTU and artillery.
- Operation against stealth, cruise, RPV and other targets with poor RCS

### TECHNICAL SPECIFICATIONS

#### IR Camera

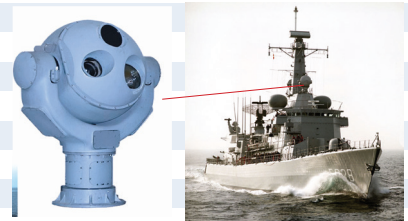
Detector	HgCdTe Cooled FPA.
Field of view	3 - 5 $\mu$ m. 320*256 pixels 9.1 * 7.3 (Wide). 2.3*1.7° (Narrow)
Brightness / Gain adjustment	Automatic. Manual
Non-Uniformity Correction (NUC)	1 point. 2 point. External. Internal
NETD	$\leq 20$ mK@ 25°C
Storage temperature	-40°C ~ +65°C
Operation temperature	-40°C ~ +55°C
Start-up Time	$\leq 8$ min
Power Consumption	14W
Water Resistance	IP67
Communication Port	Standard RS422/232

#### TV Camera

CCD	1/3 Inch Black & white
CCD Sensor Type	IL T CCD SUPERHAD black & white
Minimum illumination	Sun rise - Sun set
Resolution	550 $\pm$ 50 TV Lines
Lens Focal Length	10mm~500mm(with built in 2x extender: 20 - 1000)
Field of View	27 .5° * 20.4(Wide).0.57° * 0.42°(Narrow)
Zoom, Focus, Extender	MOTORIZED
Available Accessories	Sunshield
Water Resistance	IP67
Protocol	Standard RS485

#### Laser Range Finder

Wavelength	1.064 micrometer
Energy	60 mj
Operating Range	200m ~ 20Km
Accuracy	$\pm 5$ m
Frequency	1~12.5 Hz
Operating Temperature	-30°C ~ +55°C
Storage Temperature	-40°C ~ + 70°C
Relative Humidity	90%
Protocol	RS422



#### Platform

Speed	Variable speed: 0~120°/s Pan; 0~120°/s Tilt
Pan / Tilt Axis Range	Horizontal continuous with Slipping. Vertical -20° ~ +85°
Communication port	Fiber Optic
Positioning Feedback	17bit absolute encoders
Water Resistance	IP67
Voltage	110V / 220VAC - 1 PH. 50Hz
Power Consumption	2 Kw