

SS450C Electro-optical Tracking System

It is a ship-borne platform, with the help of cooled MWIR thermal imager, HD visible light camera and LRF, it is capable of attaining HD and IR images, monitoring, tracking as well as ranging so that obtaining the azimuth, pitch and distance of target.



Product Features

- HD imaging and high-resolution infrared imaging capabilities
- Target detection, capture and tracking day and night
- LRF: offering info of target distance
- Visual axis stabilization
- Radar guidance function: receiving target position information, and turning to the target position
- Capture, video, playback, retrieval and storage
- Real-time status display, device self-test and fault diagnosis

Technical Specification

Model No.	
Effective Distance	
To medium ship	Detection: $\geq 20\text{km}$
To small unmanned vessel	Detection: $\geq 80\text{km}$

Technical Specification

Stabilized Platform	
Rotation Range	Azimuth: 360° in a continuous way
	Pitch: $-45^\circ \sim +45^\circ$
Max Angular Velocity	$80^\circ/\text{s}$
Max Angular Acceleration	$100^\circ/\text{s}^2$
Stability Accuracy	0.1mrad
Gonio Accuracy	0.01°
IR Thermal Imager	
Detector Type	Cooled MWIR FPA
Resolution	640×512
Pixel Pitch	$15\mu\text{m}$
Interface	CameraLink/SDL, PAL Analog Video
MRTD	$\leq 300\text{mK}$
Focus Length	$15\text{-}300\text{mm F4}$
Application	
Maritime reconnaissance, search and rescue, evidence collection	
Laser Rangefinder	
Wave Length	1535nm eye safe
Range	$100\text{m}\text{-}15\text{km}$
Accuracy	$\pm 2\text{m}$
Divergence Angle	0.5mrad
HD Camera	
Sensor Type	$1/1.8''$ CMOS
Resolution	1920×1080
Min illumination	Color $0.02\text{ Lux}@F1.2$
Focus Length	$10\text{-}450\text{mm}$ 45x continuous zoom
FOV	$0.81 \times 0.61^\circ\text{-}35 \times 26^\circ$
Weight	50kg
Dimension	$\Phi 450\text{mm} \times 600\text{mm}$
Power Supply	DC18V-36V
Power	500W