

PIRI-100

INFRARED SEARCH AND TRACK SYSTEM

PASSIVE SEARCH AND TRACK

DETECTION AND TRACKING OF AIR, SURFACE VEHICLES AND MISSILES

SIMULTANEOUS DUAL-BAND IR IMAGING (MWIR AND LWIR)

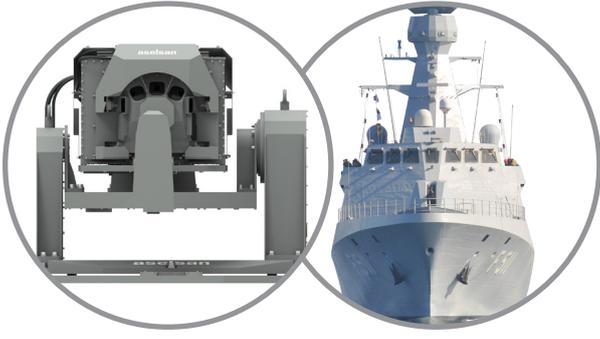
LARGE ELEVATION FOV

DISPLAY OF MWIR AND LWIR FULL AZIMUTH PANORAMIC IMAGES

DISTRIBUTED SENSOR ARCHITECTURE

MOVEMENT IN ELEVATION





PIRI-100

INFRARED SEARCH AND TRACK SYSTEM

Applications

- Search and Track
- Surveillance
- Situational Awareness

Main Features

- Passive Search and Track
- Detection and Tracking of Air, Surface Vehicles and Missiles
- Simultaneous Detection and Tracking of Multiple Targets
- Staring Sensors
 - Very high image update rate compared to rotating systems
 - Shorter time for track declaration
 - Longer track declaration range
 - Longer available time for counter measures
- Simultaneous Dual-Band IR Imaging (MWIR and LWIR)
 - Low false alarm rate
- Large Elevation FOV
 - Simultaneous detection of sea-skimming missiles and higher-altitude airborne targets
- Display of both MWIR and LWIR full azimuth 360° panoramic images
 - Simultaneous Display of 6 pieces of Compressed Panoramic Videos and 5 pieces of original Resolution Sector Videos
- Distributed Sensor Architecture
 - Full azimuth coverage of 360° by placing sensor units around ship mast
 - No blocked view, in contrast to rotating systems
- Movement In Elevation
 - Ability of Detecting and Tracking of Higher-Altitude Threats
- Accurate Stabilization
- Definable Masking Zones
- Video Recording Capability

Technical Specifications

Sensor Resolutions	MWIR: 640x512
	LWIR: 640x512
Field of View (FOV)	Azimuth: 360° (3x120°)
	Elevation: ≥ 17° (Sea State Level= 0)
Movement in Elevation	-10° to +45°
Image Update Rate	5 Hz
Multi Target Track	50 Targets per Sensor Head, Total up to 150 Targets
False Alarm Rate	≤ 1 per hour
Communication Interface	Ethernet
Video Interface	Ethernet
Power Interface	STANAG 1008 Edition 9
Weight (kg)	Stabilization and Sensor Unit: < 265
	Electronic Unit: < 27
Size (mm) (Width x Length x Height)	Stabilization and Sensor Unit: <1100x1100x1100
	Electronic Unit: <300x750x250
Environmental Conditions	MIL-STD-810G
	MIL-STD-461F

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