

PIRI-ES

PANORAMIC INFRARED IMAGING

INFRARED SEARCH AND TRACK SYSTEM

PASSIVE SEARCH AND TRACK

DETECTION AND TRACKING OF AIR/SURFACE VEHICLES AND MISSILES

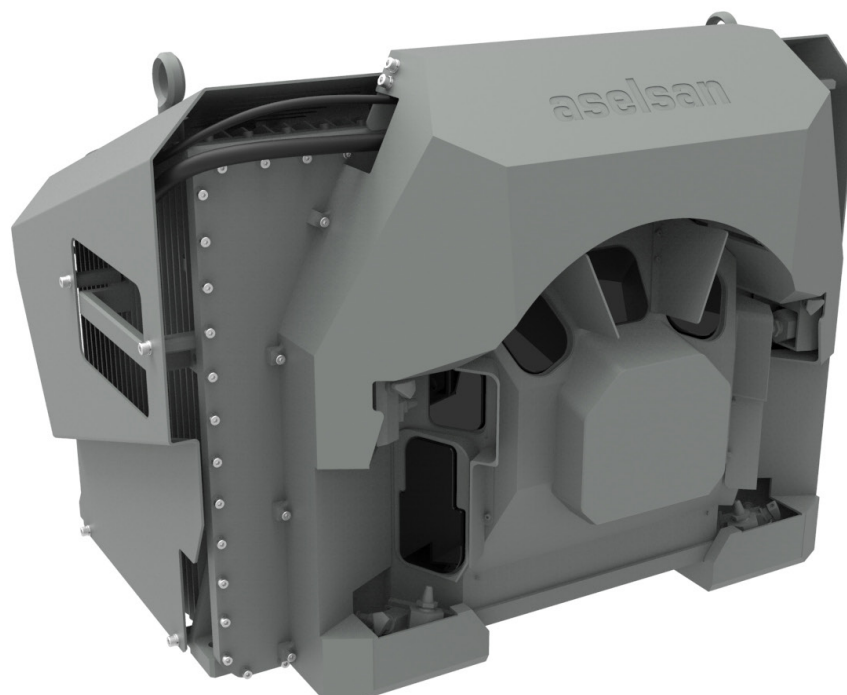
ELECTRONIC STABILIZATION

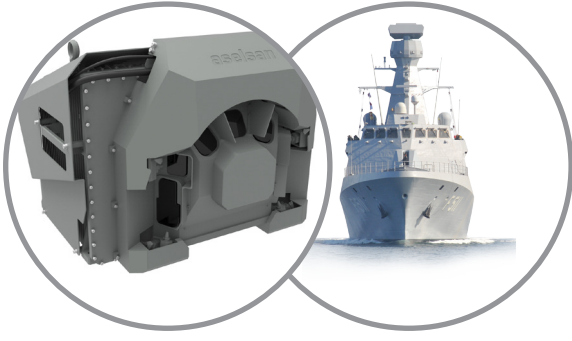
SIMULTANEOUS DUAL-BAND IR IMAGING (MWIR AND LWIR)

LARGE ELEVATION FIELD OF VIEW

DISPLAY OF MWIR AND LWIR FULL AZIMUTH PANORAMIC IMAGES

DISTRIBUTED SENSOR ARCHITECTURE





PIRI-ES

INFRARED SEARCH AND TRACK SYSTEM

Applications

- Search and Track
- Surveillance

Main Features

- Passive Search and Track
- Detection and Tracking of Air/Surface Vehicles and Missiles
- Simultaneous Detection and Tracking of Multiple Targets
- Staring Sensors
 - 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 Field of View
 - Simultaneous Detection of Sea-Skimming
 - Missiles and Other Airborne Targets
- Display of MWIR and LWIR Full Azimuth Panoramic Images
 - Simultaneous Display of 6 Pieces of Compressed Panoramic Videos (213x1536) and 5 Pieces of Original Resolution (640x512) Sector Videos
- Distributed Sensor Architecture
 - Full Azimuth Coverage by Placing Sensor Units Around Ship Mast
 - No Blocked View, in Contrast to Rotating Systems
- Situational Awareness
- Definable Masking Zone
- Video Recording Capability

Technical Specifications

Sensor Resolutions	MWIR: 640x512
	LWIR: 640x512
Field of View (FOV)	Azimuth: 360° (3x120°) Elevation: 17 ° (Sea state level=0)
Image Update Rate	5 Hz
Multi Target Track	50 Targets Per Sensor Head, Totally Up To 150 Targets
False Alarm Rate	< 1 per hour
Communication Interface	Ethernet
Video Interface	Ethernet
Power Interface	STANAG 1008 Edition 9
Environmental Spec	MIL-STD-810G

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