ARTEMIS
360° permanent night and day surveillance for war ships

Sea proven
Automatic Air and Surface target
detection, tracking and classification
Immune to electromagnetic jamming
Overview

- ARTEMIS is a sea-proven naval passive InfraRed Search and Track system, offering permanent 360° day and night, surface and air surveillance coverage, and able to automatically detect, track and classify both air and surface targets simultaneously.
- Immune to electromagnetic jamming, it detects, tracks, classifies and locates a broad variety of threats, ranging from speedboats to fighters and missiles. It detects threatening multiple and simultaneous threats. It increases ship survivability supplementing surveillance radar.
- ARTEMIS is in service in French and foreign Navies.

Applications

- Day and night 360° permanent surveillance of war ships environment
- Detection, tracking and classification of objects for ship self-protection
- Multiple targets tracking

Features and Benefits

- Increased ship and crew survivability with long range detection of threats (ships, aircraft, missiles, UAV…), providing early warning
- Permanent panoramic vision with 360° surveillance of surface and air threats without blind sector
- Day/night operation
- High performance tracking with early detection and high image rate
- Immune to electromagnetic jamming
- Modular, scalable and open
- Easy installation: compact equipment
- Maintenance: lower through-life costs, reliable & resilient (no moving part), comprehensive built-in test, extensive and easy on-board maintenance
- ITAR free

Technical Characteristics

High Performance Sensors

- Field of view: 360° x 12°/24°
- Spectral band: 3-5\textmu m
- Super resolution and blown-up images
- Long range detection of ships, aircrafts and missiles
- Day & night surveillance

Image Processing

- Real time high rate image processing
- Advanced algorithms: panoramic view, image enhancement, targets classification, multiple targets tracking

Interfaces

- CMS command & control
- Video interface: 1 Gbit/s Ethernet IEEE 802.3 Ed2005
- Power supply 115V/60Hz -1 Phase: NATO - STANAG 1008

Sensor dimensions and weight

- 445 x 520x730 mm
- <55 kg

Environmental Conditions

Environment specifications

- MIL-SPEC compliant

Naval environment

Options

- Console
- Data and image recorder and player up to 48 hours
- Automatic functions: threat assessment, early warning missile, threats alert