



COMBATING EMERGING THREATS

Early detection and identification:
The strategic advantage for maintaining security and operational effectiveness



NEW EMERGING THREATS

A change to the landscape of naval warfare

Emerging threats for navies operating in conflict zones are multifaceted, involving both traditional and asymmetric challenges

- Anti-ship ballistic and cruise missiles
- Armed drones (UAV & USV)
- Drone swarm and saturation attacks

Asymmetric threats are challenging traditional naval forces by employing unconventional methods and technologies, often leading to significant disruption in maritime operations and security

Navies must adapt to these evolving threats through innovative strategies and advance technologies



EARLY DETECTION & IDENTIFICATION - Key benefits

Proactive Response

- Measures can be taken to intercept and neutralize threat before it materializes into actual attack → Reduce the risk of damage to vessels

Decision Making / Operational effectiveness & costs savings

- Provides critical time to assess and respond appropriately
- Ability to engage with the most cost-effective weapon

Deterrence

- Potential adversaries are less likely to engage in hostile activities if they know their actions will be detected and counter effectively from a distance



SAFRAN ELECTRONICS & DEFENSE proposed solution for long range detection and identification: **OMNISIGHT™**



THE GAME-CHANGING INTEGRATED 360° EO/IRST SOLUTION

INTEGRATED SOLUTION & AUTONOMOUS SYSTEM

Combine both of SAFRAN's PASEO XLR
& VAMPIR NG capabilities

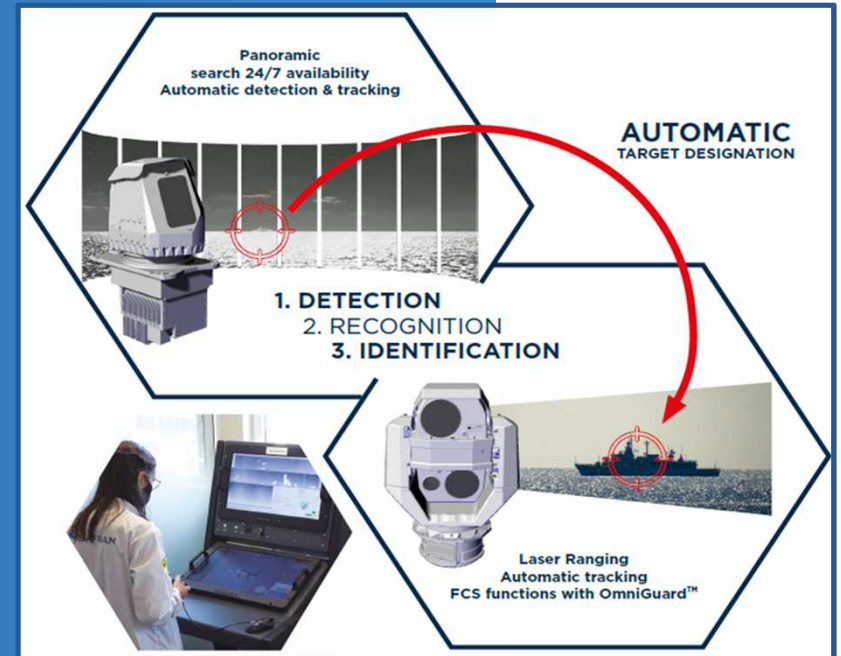
LONG-RANGE DETECTION AND IDENTIFICATION

Operational against both symmetric and
asymmetric threats

COMPACT FOOTPRINT / EASY TO INSTALL SOLUTION

OMNIGUARD™

Optional Fire control
management for a full
engagement capability



PASEO XLR



EXTRA LONG-RANGE NAVAL OPTRONIC IDENTIFICATION & FIRE CONTROL SYSTEM FOR NAVAL APPLICATIONS

MULTISPECTRAL SENSORS

- **HD MWIR** cooled thermal imager
- Daylight full **HD TV** camera
Spotter up to 0,34°
- **SWIR** camera
Spotter up to 0,55°
- **Lasers**

EXTRA LONG RANGE IDENTIFICATION AND AUTO TRACKING

HIGH PERFORMANCE GYROSTABILIZED PLATFORM / ACCURATE LOS

2-axis high performance rate gyros embedded

MAIN FEATURES

30°/70° elevation range
Multi-target tracking
MWIR & HDTV Fusion
Easy to integrate
Easy maintenance
ITAR FREE

OPTIONS

- Sector Automatic detection surveillance module
- Ballistic computer with high accuracy gun firing



VAMPIR NG



3rd GENERATION NAVAL INFRARED SEARCH AND TRACK (IRST)

HD MWIR COOLED THERMAL IMAGER

3-5 μm wavelength
Very long range

360° CONTINUOUS AZIMUTH – 1 REVOLUTION / SECOND

Permanent high speed rotation

IRST IMAGE PROCESSING

Combination of 100 pic/sec to provide a high quality panoramic IRST video

TRACKING CAPACITY

Automatic alert
Simultaneous tracking up to 100 targets

