



ADVANCED CENTRIC SYSTEMS B.V

**INTEGRATED NAVAL ELECTRO-OPTICAL
SURVEILLANCE & TARGETING SYSTEM**

Product brochure



THE PROBLEM

Naval vessels operating at sea must rely almost exclusively on their own surveillance resources, as they cannot rely on shore-based surveillance owing to the distance factor, and as airborne surveillance is not always available.

Naval surveillance is absolutely essential for the vessel's situational awareness.

In addition to their surveillance Radar systems, naval vessels normally employ electro-optical surveillance payloads.

THE SOLUTION

ACS presents INEOSTS – Integrated Naval Electro-Optical Surveillance & Targeting System.

INEOSTS is a state-of-the-art day/night naval surveillance and targeting system based on a stabilized electro-optical payload and designed to interface with the naval vessel's Radar system, navigation system and weapon systems.

INEOSTS is easy to install, operate and maintain. It was designed and built to operate efficiently under extreme sea conditions.

Fully operational on board various naval vessel types, INEOSTS may be customized to comply with the client's specific requirements by incorporating any one of the electro-optical surveillance payloads from the ACS range: VMS-ESOP (for long-range surveillance), VESPA (for medium-range surveillance) or MINI-VESPA (for short-range surveillance).

These dedicated electro-optical payloads enable INEOSTS to perform naval surveillance and reconnaissance missions as well as target acquisition, fire management and damage assessment missions, self-defense, coastal defense and maritime patrol missions, search and rescue and economic zone supervision missions.

A naval surveillance setup based on the electro-optical payloads from the ACS range (VMS-ESOP, VESPA or MINI-VESPA) offers a high-performance, cutting-edge naval surveillance and targeting solution.

KEY FEATURES & MAJOR ADVANTAGES

Key Features & Major Advantages

- Customized, state-of-the-art maritime surveillance system for an extensive range of applications:
 - Naval surveillance and reconnaissance

- Target acquisition, fire management & damage assessment
- Self-defense
- Coastal defense & maritime patrol
- Search and rescue
- Economic zone supervision (e.g. fishery management)
- INEOSTS consists of a stabilized electro-optical payload, a control & display station (or hand control grip), an interface unit, display monitor/s and a digital video recorder
- Multiple-sensor imaging, targeting & monitoring payloads
- Stabilized, fully controlled turrets
- State-of-the-art electro-optical sensors
- Cutting-edge image processing
- Surveillance coverage range determined by the payload model used: VMS-ESOP (long-range surveillance), VESPA (medium-range surveillance) or MINI-VESPA (short-range surveillance)
- **VMS-ESOP** payload specifications:
 - Payload weight: 28-31 kg
 - Power consumption: less than 200 Watts
 - LOS accuracy: 0.3 mrad
 - Daytime sensor: zoom video camera + spotter video camera
 - Thermal imager: 3-5 micron
 - Laser rangefinder: yes
 - Laser pointer: yes
 - Laser designator: optional
- **VESPA** payload specifications:
 - Payload weight: 16-19 kg
 - Power consumption: less than 150 Watts
 - LOS accuracy: 0.3 mrad
 - Daytime sensor: zoom video camera
 - Thermal imager: 3-5 micron
 - Laser rangefinder: yes
 - Laser pointer: yes
 - Laser designator: optional
- **MINI-VESPA** payload specifications:
 - Payload weight: 7-8 kg
 - Power consumption: less than 135 Watts
 - LOS accuracy: 0.3 mrad
 - Daytime sensor: zoom video camera
 - Thermal imager: 3-5 micron
 - Laser rangefinder: yes
 - Laser pointer: yes
 - Laser designator: optional