



## **NEMO - NIGHT EQUIPMENT FOR MARITIME OPERATION**

**NEMO (Night Equipment for Maritime Operation) is an optronic observation equipment developed by SELEX GALILEO.**

The equipment is intended for a wide range of applications requiring a passive control of specific areas; its typical use includes all weather surveillance of sensitive areas, control of on board human activities at long range, rescue, anti-pollution operations, aid to navigation.

The sensors are installed on a power operated mount (stabilized) to allow the observation with different degree of detail also in complete darkness and in fog, misty and smoke environmental conditions.

The operator activate an automatic periodical scan of the areas of interest.

The NEMO modular configuration gives a high growth potential to match future operational requirements of Customer's operational installation.

### **APPLICATIONS**

- Surveillance of sea traffic.
- Long range survey of human activities.
- Aid to navigation
- Detection of floating debris.
- Search and Rescue.
- Detection of surface pollution and aid in anti-pollution operations.

## NEMO - Night Equipment for Maritime Operation

### TECHNICAL DESCRIPTION

#### Platform

Azimuth	360°
Elevation	± 40°
Stabilisation	Yes
Max. speed	80°/s
Max Acceleration Az, El	180°/s <sup>2</sup>
Payload	50 Kg
Weight (without Optical Sensors)	50 Kg

#### Day Light TV Camera

Detector:	Charge Coupled Device
Lens:	Continuous zoom
Field of view:	From 48.9° x 36.7° to 2.5° x 1.9° (0.31° x 0.23° with digital zoom)
Pixel:	752H x 582V
Zoom ratio:	22:1 optical, 8:1 digital, 176:1 total
Video output:	CCIR 625/50
Control Interface:	serial RS 422

#### Thermal Imager

Band:	3-5 $\mu\text{m}$
Fields of View:	20° x 15° (Wide FoV) 2.4° x 1.8° (Narrow FoV)
Detector:	FPA (Focal Plane Array) 384 x 288 pixels
Cooler:	Stirling
NETD:	< 50 mk
Control Interface:	serial RS 422
Video Output:	CCIR 625/50 analogue, digital

