

VIGY OBSERVER

NAVAL DAY/NIGHT

STABILIZED OBSERVATION SYSTEM



- > MULTI-CONFIGURATION PAYLOADS
- > ENHANCED NAVIGATION & SITUATION AWARENESS
- > LONG-RANGE THREAT DETECTION IN HOT & HUMID ENVIRONMENTS
- > ADVANCED SURVEILLANCE SYSTEM FOR SMALL & HIGH SPEED VESSELS





VIGY OBSERVER

Naval day/night stabilized observation system

Compact and lightweight, Vigy Observer is a fully panoramic stabilized observation system which is easy to install and to start-up on any type of vessel from OPV to RIBs.

Essential for a ship's self-protection and for providing a body of evidence

Intended to be the primary optronic system aboard interceptors or fast patrol boats, Vigy Observer provides a full day-night, all weather surveillance capability.

Multi-configuration payloads

Made up of a stabilized head, a miniaturized electronic unit and a user-friendly remote command and control, Vigy Observer is a versatile platform with a modular payload. The payload includes a cooled mid-wavelength infrared (MWIR) imager, a color TV camera, a laser range finder and an automatic video tracking capabilities.

Through a standard NMEA interface, Vigy Observer can also be slaved to the radar target tracks for tracking purposes.

Enhanced navigation and situation awareness in hot and humid environments

When operations need to be carried out in reduced visibility, in the dark and in rough weather conditions, the Navy, Customs, Coast Guards and Police forces can benefit from a powerful thermal imaging solution for preventing illegal activities with complete



discretion. The thermal imager is a passive technology that is invulnerable to jamming or camouflage, and is undetectable. Detection capability is enhanced by merging color TV and thermal channels with an additional option for automatic detection capability with alarm management.

Easy to install and to deploy

Thanks to its lightweight and modular concept, Vigy Observer is easy to install and to move from one vessel to another without specific tools or calibration requirements. Its design stands up to harsh naval environments offering proven high reliability with a very low maintenance requirement, even in its cooled thermal version.

- Enhanced situation awareness
- Gyrostabilized line-of-sight
- Laser Range Finder
- Vessel tracking & observation

Technical specifications

Stabilized head

- Weight: < 23kg
- Size: ϕ in rotation 355 mm, H = 365mm
- Azimuth: n x 360°
- Elevation: -30° to +70°
- Slewing rate: $\geq 70^\circ/\text{sec}$
- Line of sight stabilization: Sagem rate gyro module
- Operating temperature: -32°C to +60°C
- Storage temperature: -40°C to +70°C

Standard payload

- IR and TV channels (-25° to +65°)

Options

- Automatic video tracking
- High rate eye-safe laser range finder

Cooled thermal imager

- Waveband: 3-5 μm
- Detector: infrared focal plane array
- Continuous digital zoom between 9°x6.75° and 3°x2.25°
- Standard command and control function: AGC, reverse polarity...

Day video

- Color video: 1024 x 768 pixels
- FOV: 40°, 12° and 2.4°
- Digital continuous zoom (proprietary and patented zoom concept)
- CCIR format

Laser range finder

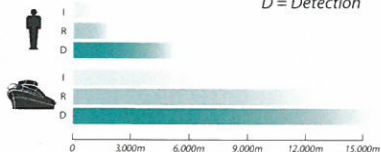
- Repetition rate 0.3 Hz

Electronic unit

- Weight: < 4kg
- Size: 160 x 200 x 130mm
- Video Output: Analog standard-CCIR Ethernet
- Control: CAN BUS - RS422 (option)
- Power supply: 28 V, EN2282, MIL-STD 1275B and ISO 7387-2 standards
- Power consumption: < 180W (peak value)

Vigy Observer ranges

I = Identification
R = Recognition
D = Detection



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