

ELECTRONICS & DEFENSE



## VIGY ENGAGE

NAVAL STABILIZED ELECTRO-OPTICAL FIRE CONTROL SYSTEM

- Day & night vision with gun director capability
- Enhanced navigation & situation awareness
- Passive long-range threat detection
- Advanced sighting system for small & high speed vessels

# VIGY ENGAGE

## Naval stabilized electro-optical fire control system

Compact and lightweight, Vigy Engage is a full panoramic stabilized long-range sight system easy to install on any type of vessel. Intended to be the primary optronic system aboard combat craft, interceptors or fast patrol boats, Vigy Engage can be used as a complementary surveillance system on larger vessels.

Thanks to its enhanced line of sight, Vigy Engage provides gun director capabilities when integrated with a remotely controlled weapon. To achieve fast target detection to engagement, a slew to cue capability between the radar and the gun systems is also provided.

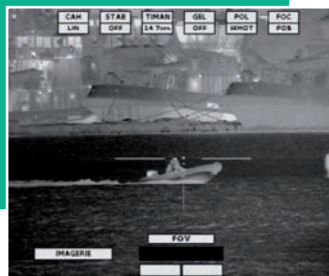


Lightweight, Vigy Engage can be placed in the vessel's topside, providing enhanced surveillance performance compared to cameras fitted on the gun mount. Vigy Engage also enables target detection, identification and tracking in a discrete fashion, without aiming the gun mount.

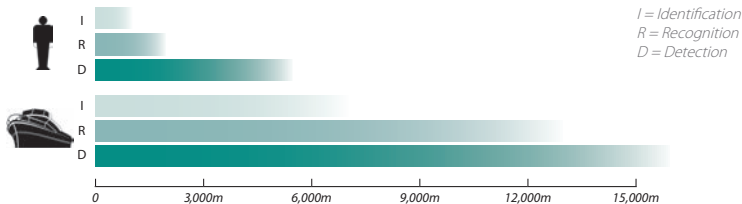
Coast guard vessels, police forces, naval patrol and interceptor boats can benefit from a powerful thermal imaging solution to prevent illegal activities in full discretion. For asymmetric threats, an additional option offers an automatic detection capability with alarm management. Modular, Vigy Engage is easy to install and to move from one vessel to another.

Made up of a stabilized head, a miniaturized electronic unit and a user-friendly remote command and control, Vigy Engage is a versatile platform with a modular payload. The payload includes a cooled mid-wavelength infrared (MWIR) thermal imager, a color TV camera, a laser range finder and automatic video tracking capabilities – making it ideal for law enforcement missions.

- Improved target designator due to powerful magnification
- Accurate & gyrostabilized line of sight
- Laser range finder
- Vessel tracking & identification



### Vigy Engage ranges



### Technical specifications

#### Stabilized head

- Weight: < 20kg
- Size:  $\phi$  in rotation 355 mm, H = 365mm
- Azimuth:  $n \times 360^\circ$
- Elevation:  $-30^\circ$  to  $+70^\circ$
- Slewing rate:  $\geq 70^\circ/\text{sec}$
- Line of sight stabilization: Safran rate gyro module
- Operating temperature:  $-32^\circ\text{C}$  to  $+60^\circ\text{C}$
- Storage temperature:  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$

#### Standard payload

- IR and TV channels ( $-25^\circ$  to  $+65^\circ$ )
- Automatic tracking
- High rate eye-safe laser range finder

#### Cooled thermal imager

- Waveband: 3-5 $\mu\text{m}$
- Detector: infrared focal plane array
- Continuous digital zoom between  $9^\circ \times 6.75^\circ$  and  $3^\circ \times 2.25^\circ$
- Standard command and control function: AGC, reverse polarity...

#### Day video

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

#### Laser range finder

- Eye-safe
- 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)

#### Remote Weapon Station interface

- Ethernet, RS422, CAN bus, analogue I/O available
- Power supply: 28 V, EN2282, MIL-STD 1275B and ISO 7387-2 standards
- Power consumption: < 80W

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