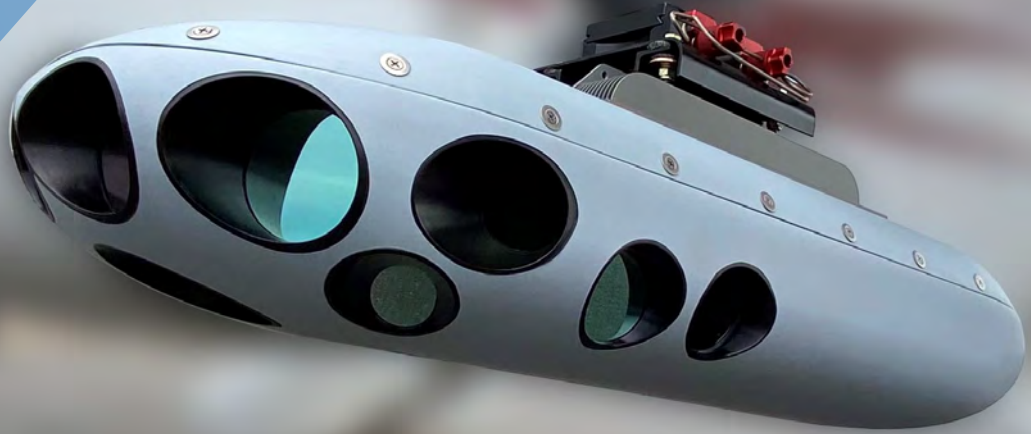


# ViDAR VMS-5

## Day/Night Pod



## ViDAR™ is the world's first Optical Radar

ViDAR is a persistent wide area maritime optical search solution proven in operations since 2015.

- ❑ 300x maritime search coverage
- ❑ Wide area optical search
- ❑ Autonomous object detection
- ❑ Small object detection
- ❑ Passive detection
- ❑ Low SWaP aircraft addition

The ViDAR VMS-5 pod is optimized with multi-camera EO and Long Wave IR sensors providing 180 degree coverage in front of the aircraft.

The VMS-5 Pod can be mounted onto fixed-wing or rotary wing manned and unmanned aircraft and the system easily integrates with mission management systems.

VMS pod variants are also available for Day-only, Night-only and asymmetric applications

### Applications

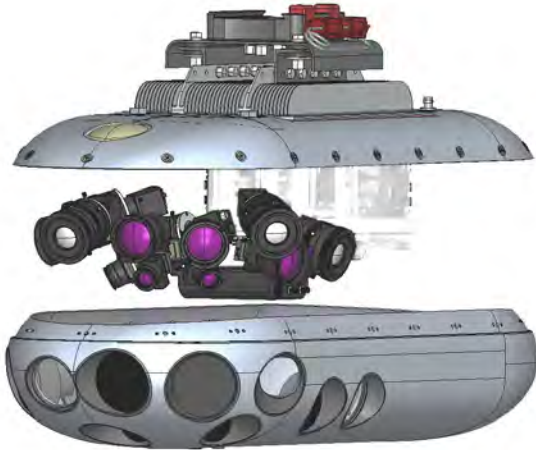
- ❑ Search and Rescue
- ❑ Anti-Piracy
- ❑ Counter Narcotics
- ❑ Fisheries monitoring
- ❑ Debris detection
- ❑ Maritime Security

### Operation

ViDAR uses ultra-high definition video to autonomously scan the ocean surrounding an aircraft. Detected objects are presented to the operator as a map location and a thumbnail image enabling detection to identification in seconds.

Unmatched capability, speed and efficiency improves mission times, increases coverage area, reduces operator fatigue and cuts operating costs.

# ViDAR VMS-5 Day/Night Pod



## ViDAR VMS-5 Day/Night Pod Specifications

### Sensors

- 60MP EO array
- 2.6MP IR array

### Size

- Width 305 mm (12")
- Length 865 mm (34")
- Depth 280 mm (11")

### Weight

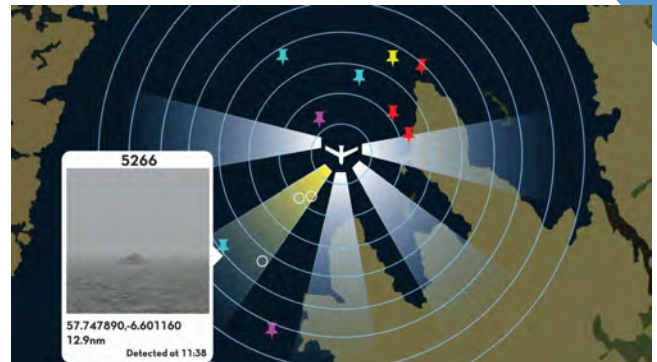
- 21 Kg (fully integrated)

### Power

- 400W
- 18-48V DC

### Mount

- Compatible with COTS and pylon mounting systems
- Bespoke mounting solutions available



## Capabilities

- Passive sensor - ViDAR emits nothing thus avoiding detection on clandestine missions
- 20Nm search swath and 180 degree field of view
- Over 13,360 Nm<sup>2</sup> of ocean coverage in 4.5 hrs at 150kts
- Proven to work up to sea state 6
- Low Size Weight and Power (SWaP) system that doesn't affect the operation of aircraft or UAVs
- Finds non transmitting and non-reflective targets
- Greater than 90% Probability of Detection on first pass
- STANAG 4609 and MISB 0601 compliant
- ITAR free



*Sentient develops and deploys computer vision technology with a focus on the development of automated detection software for EO/IR imagery. With over 3,500 systems deployed, Sentient's solutions enhance the performance of EO/IR operations for many agencies and forces worldwide.*