

## TACTICAL R-ESM SYSTEM CAPABILITIES WITH EXTENDED FREQUENCY COVERAGE

- ▷ VIGILE 200 is an enhanced version of VIGILE 100 offering extended frequency coverage down to 0.5 GHz.
- ▷ The VIGILE family is the latest generation Radar Electronic Support Measures (R-ESM) system from Thales. Drawing on the latest COTS technologies, VIGILE provides a scalable solution, able to match the changing roles of modern platforms and future emitter types, thereby maintaining capability effectiveness and minimising through-life costs.
- ▷ VIGILE is specifically designed to fulfill the current and future requirements of small to large multi-role naval platforms, delivering:

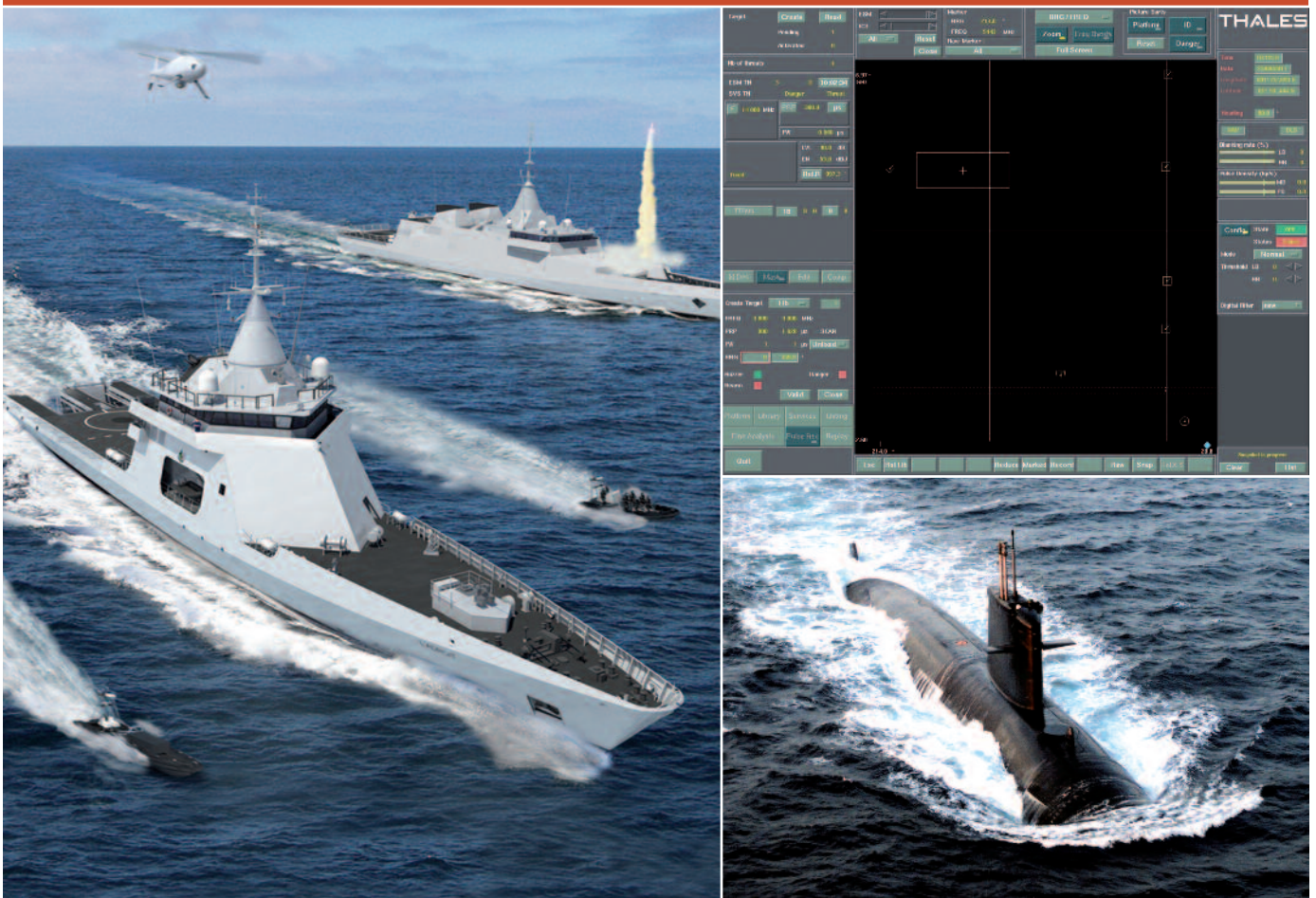
- Automatic Situational Awareness
- Threat Assessment and Warning
- ELINT

The VIGILE family provides a variety of antennas and receiver configurations depending on the requirements.

- ▷ The VIGILE family uses the latest digital receiver and processing algorithms and delivers outstanding performance in today's complex RF environments.

# VIGILE 200

Advanced R-ESM System with extended frequency coverage





## VIGILE 200

### Tactical R-ESM System capabilities with extended frequency coverage

With equipment installed by more than 40 Navies around the world, VIGILE is a sea proven system. Thales has extensive experience in R-ESM design, installation and integration and is the ideal partner for providing you with Electronic Warfare solutions.

#### MAIN CAPABILITIES

- 0.5 – 18 GHz instantaneous frequency coverage
- Tunable narrowband reception for the management of the cluttered 0.5 – 2 GHz region
- 360° instantaneous Direction Finding
- Measures all radars with 100% POI
- Pulse-to-Pulse record & replay for ELINT purposes
- Multipath and reflection processing
- Surface, submarine and land-based versions
- Modern COTS-based design for high reliability

#### RF PERFORMANCE

- - 60 dBm automatic processing sensitivity
- 3° RMS amplitude DF measurement accuracy
- No-blind polarization
- Uses standard VIGILE 100 antennas and receiver processor with additional plug-in modules

#### SIGNAL PROCESSING PERFORMANCE

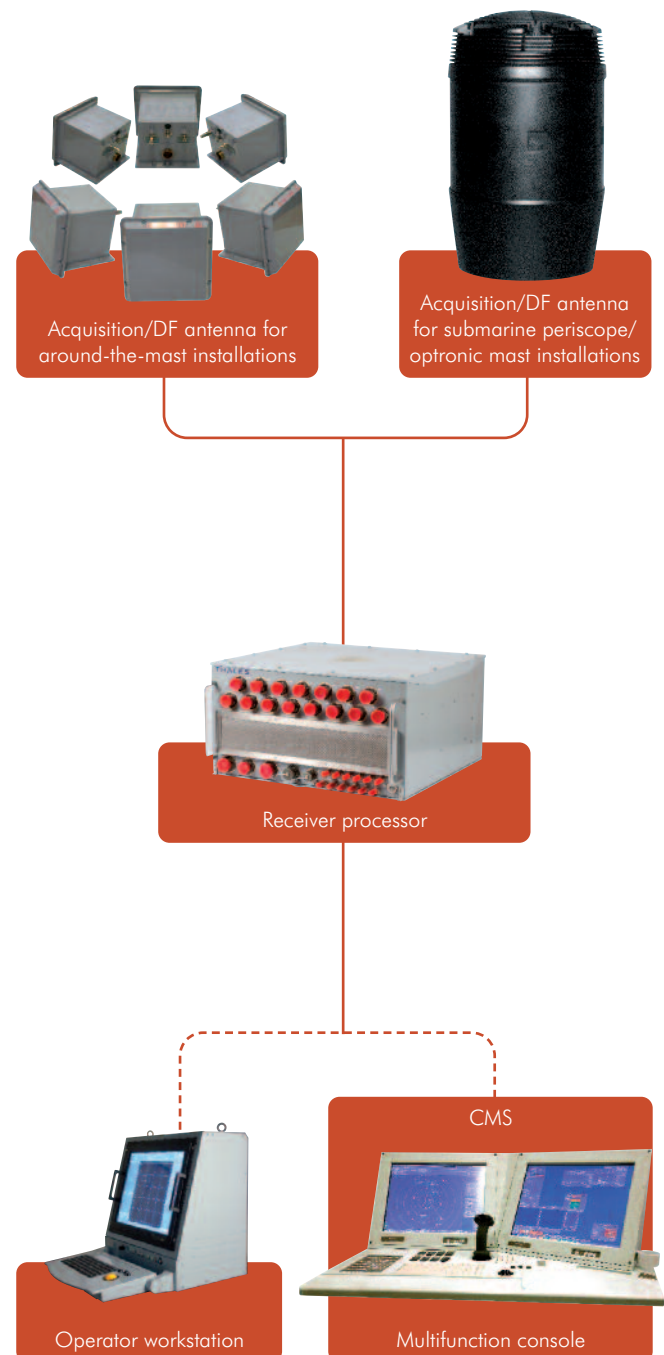
- Pulse-to-Pulse parameter measurement
- PDW pre-processing for high duty cycle signal environments
- 1 million Pulse Per Second (PPS), pulse density
- Up to 12,000 emitter mode threat library capacity
- 500 maximum simultaneous targets
- < 1 second reaction time

#### MAN-MACHINE INTERFACE

- Operation from dedicated workstation or CMS multifunction console
- Comprehensive library management tools
- Automatic diagnosis by BITE
- Flexible displays for tactical and ELINT analysis

#### OPTIONS

- Range of submarine ESM mast antenna unit
- Full combat system integration
- System controller for R-ECM, DLS
- Integration with C-ESM



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