



Vigile APX RESM

Advanced Radar Electronic Support Measures for all naval platforms

The APX system from the VIGILE family is the latest generation Radar Electronic Support Measures (RESM) system from Thales. Utilising the latest COTS technologies. The APX system 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.

The APX system is specifically designed to fulfil the current and future requirements for small to large multi-role naval platforms, delivering:

- Automatic situational awareness
- Threat assessment and warning
- ELINT

The APX system utilises the latest receiver and processing algorithms and delivers outstanding performance in today's complex RF environments.

The APX system provides a variety of antenna configurations to ease platform integration and the open architecture allows easy integration of different configurations of receivers depending on the requirement.

Latest generation digital receivers

- Improved parametric accuracy
- Improved operation in cluttered environments
- Increased sensitivity to detect LPI emitters

With systems installed in more than 40 navies around the world, Thales has strong experience in RESM design, installation and integration and is your ideal partner to provide advanced electronic warfare solutions.

Vigile APX Key Features

- Automatic surveillance of the radar RF spectrum
- Operation in complex littoral environments
- Flexible antenna solutions
- Up to two fully integrated, digital receivers covering above 2 GHz (500 MHz wide RF BW)
 - High sensitivity
 - High fidelity signal analysis
- Up to two wideband receivers
- Superhet receiver for the management of congested 0.5 – 2 GHz region
 - 90 MHz BW for analysis of comms band
- Excellent DF and parametric accuracy
- Latest generation Digital Signal Processing
 - Thales Titanium wideband
 - Thales Carbon digital receivers
 - Thales Minerva de-interleaving
 - Thorondir emitter identification
- Interface to Thales Scorpion 2 RECM
- Comprehensive library management tools
- Proven design using latest COTS technology
- Selection of HMI solutions (inc. CMS embedded)
- Simple to install, operate and maintain

Technical Specification (surface ships)

Performance data

■ Frequency Coverage:	0.5 – 18 GHz
■ Az / El Coverage:	360° / 60°
■ Receiver options:	0.5 – 2.0 GHz superhet 2.0 – 7.5 GHz wideband 7.5 – 18.0 GHz wideband 2.0 – 18.0 GHz wideband 2 – 18 GHz digital receiver
■ DF Accuracy (typ.):	2° RMS
■ Pulse density:	2 Mpps
■ Library Modes:	12000

Installation data

Lightweight Antenna Assembly	
■ Operating Temp:	-35 to +45 °C
■ Dimensions:	480 x 1230 x 615 mm
■ Mass:	100 kg
System Cabinet	
■ Dimensions:	1570 x 645 x 540 mm
■ Mass:	300 kg
■ Power Supplies	Standard Platform



Lightweight Antenna Assembly

RF & Control Interfaces



System Cabinet and Optional Console

Platform Integration
Operation
Power, Alarms

CMS

HMI
Solution

Platform
Interfaces

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