



COAST WATCHER 100

High-performance coastal surveillance radar

Long range air and surface surveillance radar,
dedicated to coastal environment missions

Missions

- Territorial waters and Economic Exclusive Zones monitoring (Illegal fishing, smuggling, illegal immigration, piracy...)
- Homeland security and early warning
- Anti-intrusion and protection of sensitive coastal assets
- Support to SAR missions and helicopter guidance
- Upgrade of VTS systems from safety to security applications
- Offshore platforms and oil fields surveillance

Operational Benefits

- High-performance, solid-state transmitter, radar
- Detection of very small surface targets in dense traffic areas (kayaks, rhibs,...)
- Low altitude target detection
- High-performance processing and tracking algorithm, military-derived, developed specifically for coastal operation
- Operational in any weather
- Universal interoperability to any system / network
- Fully remote or local operation

Compliance to IALA Recommendation V.128

Securing your future

COAST WATCHER 100

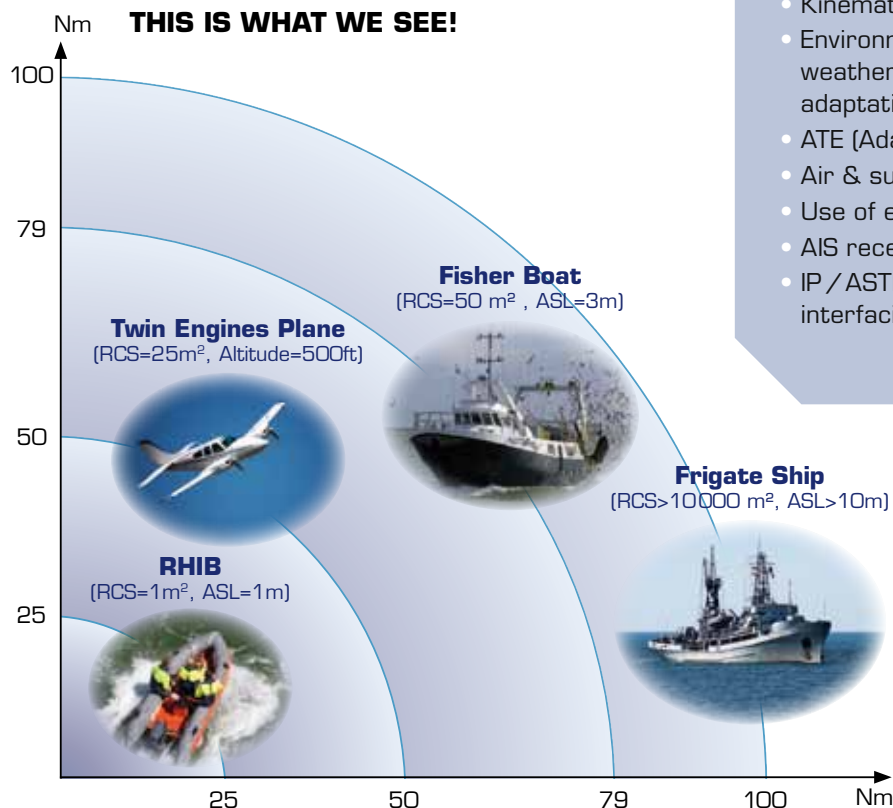
High-performance coastal surveillance radar

Operation

- Very small object detection at long range
- 500 simultaneous surface tracks
- 30 simultaneous air tracks
- Excellent detection under rain and by all weather conditions, thanks to its automatic weather detection and adaptation mode
- Precise and low false alarm detection and tracking, derived from a military algorithm (Kinematic Scan to scan[®] patented processing)
- Fully automatic or manual operation
- Advanced and easy data display for a faster decision-making by the operator
- Alarm in programmable non-intrusion zones
- Slew to cue camera surveillance option
- Can be installed at high altitude sites

Low possession cost

- Solid-state transmitter allows graceful degradation
- 365 days – 24 hours with one preventive maintenance per year
- MTBCF: > 1 year
- Remote diagnostic (Built-In Test Equipment)
- High availability and durability (COTS based processing and solid-state transmitter)



Commitment on on-site performances. Radar antenna elevation of 1200 m and a Sea State 3. (RCS: Radar Cross Section — ASL: Above Sea Level)

Main Characteristics

Surface & Air channels

Frequency

- Operation in X band for optimized surface detection
- Agility bandwidth: 300 MHz
- Number of frequencies: 8

Transmitter

- Technology: Solid-state, graceful degradation
- Peak Power: modular: 300, 600 and 1000 W

Antenna

- Rotation speed: 6-10 rpm
- Azimuth resolution: 0.6°
- Polarization: linear and circular, switchable

Range

- Instrumented range: 100 NM
- Range resolution: down to 4 m at any distance

Processing

- Open architecture based on COTS (PC Pentium™) allowing reconfiguration
- Doppler processing for both surface and air targets
- False alarm regulation
- Kinematic Scan to scan[®] processing
- Environment analysis (Detection of harsh weather areas and automatic processing adaptation)
- ATE (Adaptation To Environment)
- Air & surface tracking with automatic initiation
- Use of electronic chart
- AIS receiver and geographical mapping
- IP / ASTERIX connection for universal interfacing to any system

FRANCE

Thales Air Systems
Voie Pierre Gilles de Gennes
91470 Limours en Hurepoix
Tel: +33 (0)1 64 91 79 25
Fax: +33 (0)1 64 91 67 45
airsystems.info@thalesgroup.com

The NETHERLANDS

Thales Nederland
P.O. Box 42
7550 GD Hengelo
The Netherlands
Tel. [+31 74] 2488 111
info@nl.thalesgroup.com