



Actacor[®] Integrated Surveillance Tower – Maritime

Wide Area Surveillance for Territorial Waters and Coastlines

Key Benefits

- Permanent high-quality surveillance for wide coverage of territorial waters and coastlines
- Remote operation from Actacor[®] Fixed Command Centres via secured broadband connection.
- Field proven in various environments
- Cost saving standardised variants
- Scalable solution

Typical Applications

- Maritime border surveillance
- Protection of critical infrastructure and commercial assets both on and off-shore
- Search and Rescue and navigational support
- Permanent Situational Awareness along coasts, rivers and internal waters

Overview

The Actacor[®] Integrated Surveillance Tower – Maritime is the 24/7 all-weather solution for continuous surveillance, detection and tracking of vessels and moving objects within territorial waters as well as in the low air space of sovereign territories.

The Integrated Surveillance Tower – Maritime provides a fully integrated, electronically supervised land-based surveillance tower site which consists of high performance, mature multi-sensors on a standard tower. It also includes a ground shelter containing the sensor signal processing software, related IT and communication infrastructure.

The tower site is physically protected by a fence and supervised by a variety of security sensors and CCTV cameras. On-site access to the ground shelter is granted via software based access control.

The tower allows deployment of various Multi-Sensor kit configurations, from standard long/short maritime radar and camera solution to extensions including radio direction finder, AIS transceiver, weather and wave height sensors.

The standard Multi-Sensor configuration provides long range detection and imaging capabilities 24 hours a day and in all sea & weather conditions, with high accuracy and low false detection rate. Optionally, it can be integrated with other Vessel Tracking Service (VTS) systems.

Additional antennas for RF (HF/VHF/UHF) communication or Microwave links can be deployed on the tower according to operational needs.

AIRBUS

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Standard features and options, adapted to needs on request	
Multi Sensor Kit configuration (Others on request)	360° Long Range Radar Day & Thermal Camera with laser range finder <i>Optional: AIS transceiver</i> <i>Optional: Radio Direction Finder</i> <i>Optional: Weather sensors</i> <i>Optional: Short Range Radar 360°</i>
Main Functionalities	Automated and remote manual sensor control, with automated detection, imaging, automatic camera cueing and track generation Remote status monitoring of all tower equipment and applications Local Management Console
Typical detection range*	12 nm for small boats 20 nm for vessels 15 nm for light aircraft
Standard tower heights (Others on request)	65 m (Typically manufactured and deployed by in-country partners)
Normal Operation	Remote from one or several Command Centres <i>Optional it can be integrated with AIS Networks and/or independent VTS Centres</i>
Sensor mounting	On secured platform on standard tower.
Power supply	Standard from power grid with back-up UPS <i>Optional: diesel generator and diesel tank</i>
Environmental Protection	According to MIL-STD-810G for the geographical region for tower, shelter and multi-sensor kit.
Air Conditioning	Dimensioned according to environmental conditions and equipment needs
Communication infrastructure needs for Voice and Data	LAN, 1 GB WAN backbone connectivity <i>Optionally: Microwave backbone links on demand</i>
Operational Temperature	According to MIL-STD-810G for the region of deployment
Site protection	Physical and electronic, including motion detection, access control and CCTV. Remotely supervised from Fix Command Centre.

* Depending upon the sensor selection, height and environment