Actacor® Integrated Surveillance Tower – Land
Wide Area Surveillance optimised for Land Border Security

Key Benefits
- Robust and permanent high-quality surveillance for large coverage area
- Remote operation from Actacor® Fixed Command Centres through secured broadband connection.
- Field proven in various environments
- Cost saving standardised variants
- Scalable solution

Typical Applications
- Land border surveillance
- Critical infrastructure and commercial assets protection
- Permanent Situational Awareness

Overview
The Actacor® Integrated Surveillance Tower – Land is the solution for wide area surveillance in a multitude of land environments and low air space, in all-weather conditions.

The Integrated Surveillance Tower – Land provides a fully integrated, electronically supervised Land Surveillance Tower site, which consists of a 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 possible via software-based access control.

The tower allows deployment of various Multi-Sensor kit configurations, from a standard radar-camera solution, to extensions including direction finder and weather sensors.

The standard Multi-Sensor configuration provides long range detection and imaging capabilities 24 hours a day and in all weather conditions, with high accuracy and low false detection rate.

Additionally, antennas for RF communication or Microwave links can be deployed on the tower according to operational needs.
# Actacor® Integrated Surveillance Tower – Land
Wide Area Surveillance for Land Border Security

<table>
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<th>Standard features and options, adapted to needs on request</th>
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| **Standard Multi Sensor Kit configuration** (Others on request) | Long Range Radar, Day & Thermal Camera with laser range finder  
*Optional: Short range radar*  
*Optional: Radio Direction Finder*  
*Optional: Weather Sensors* |
| **Main Functionalities** | Automated and remote manual Sensor Control, with Automated Detection, Imaging, Automatic Camera cueing,  
Track generation,  
Remote status monitoring of all tower equipment and applications  
Local Management Console |
| **Standard tower heights** (Others on request) | 35m  
(Typically manufactured and deployed by in-country partners) |
| **Typical detection range** * | 18 km for Pedestrian  
36 km for Truck  
27 km for Light aircraft  
36 km for Low level helicopter  
9 km for small UAV |
| **Normal Operation** | Remote from one or several Command Centres |
| **Sensor mounting** | On secured platform on standard tower. |
| **Power** | Standard from Power Grid with back-up UPS  
*Optional: Diesel Generator and Diesel tank* |
| **Environmental Protection** | According to MIL-STD-810 G applicable to the deployment 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  
*Optionally: Microwave backbone links on demand* |
| **Operational Temperature** | According to MIL-STD-810G for the geographic region of deployment |
| **Site protection** | Physical and electronic, including motion detection, access control and CCTV.  
Remotely supervised from Fixed Command Centre. |

* Depending upon the sensor selection, height and environment