



Scalable, Modular Surveillance Systems for Maritime Domain Awareness

We are a leading provider of scalable and modular situational awareness systems for coastal surveillance, port security and offshore infrastructure protection.

Applications

- Maritime Sovereignty
 - EEZ Monitoring
 - Fisheries Protection
 - Counter Smuggling
 - Counter Terrorism/Piracy
- Protecting CNI
- Search & Rescue / Disaster Response Management
- Environmental Protection Monitoring
- Mobile Asset Management
- Emergency co-ordination
- Reduced training & support costs

Sub-system Integration

- Automatic Radar Tracking
- EO/IR Camera Control
- Video Image Tracking
- Diver / Swimmer Detection Systems
- AIS, LRIT, ADS-B, DF, ELINT
- Real time data fusion and track correlation
- Secure networks and communications backbones
- Blue force tracking transponders
- Interface to national Services
- Command / Coordination Centre video walls

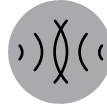


SAMS - Situational Awareness Management Software



Track Management

Multiple sensors can be correlated to provide a fused track picture for a region and distributed to all displays within a region. Track data can be distributed via a network or radio link to local and remote control room displays as well as blue force vessels and support craft.



Integrated Communications

The radio wall module allows the full integration and control of local and remote communications, thus enabling onshore control centres to communicate with remote vessels utilising a multitude of communications links such as satellite, Radio over IP, GSM & Mesh radio.



Command & Control

Our Display client is able to provide a fully correlated track picture displaying tracks and data from multiple sources on a wide variety of chart formats as well as multiple video streams and camera controls. Information can be passed and exchanged with hand portable devices thus extending the Command & Control reach.



Sensor Management

Camera systems can be integrated and 'cued' by radar tracks to follow targets of interest. The camera systems can also be used to acquire and then automatically track vessels as allocated by an operator. Other sensor data such as AIS track information, DF, ADS-B, Sonar, ID transponders, alarms, video derived from an ROV/USV/UAV, blue force transponders can be managed and distributed over secure networks as operationally required.



Logistics Planning

The planning tool allows the operator to configure logistic criteria associated with assets such as RIBs, helicopters, patrol craft and larger vessels and thus monitor compliance with operational requirements. Automatic alerts can be configured to warn when compliance is at risk using a RAG notation. The planning tool can also be used to achieve operational efficiency through effective use of available assets and their positioning.



Automatic Alarms & Alerts

The SAMS suite of modular software is configurable to be able to provide automated and distributed alarms and alerts across multiple data links and communication bearers to geographically separated users and stakeholders.

At the heart of our coastal and port solutions is our Situational Awareness Management Software (SAMS) suite.

With over 25 years of operational validation, our experience in surveillance system design, sensor integration, track correlation & data fusion, sensor data management and C² environments combine to deliver a real-time Common Operating Picture (COP) for the maritime domain and ensures we are able to meet the challenges of complex integration requirements.

Our modular, scalable, open system designs allow for small systems to be expanded easily or for multiple, geographically separated sites to be integrated into larger, regional or national systems.

The use of high reliability & availability hardware and commercial-of-the-shelf (COTS) systems when appropriate, ensures the cost effectiveness of the solutions provided.

Ultra reserves the right to vary these specifications without notice.

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+ ultra.group | info@ultra-ats.com