

ROASW



REMOTE OPERATION ASW SYSTEM

ROASW system provides a unique, fully integrated surface/air communication and sensor processing system, designed to enhance and extend the ship acoustic sensors (ASW), the Anti Surface Warfare (ASuW) and the Anti Ship Surveillance and Targeting (ASST) mission extending ship's horizon of Non-Acoustic Sensors (NAS).

ROASW system combines ship's autonomy and endurance with the flexibility, velocity and mobility of the air vehicle. In the offensive field, control, detection and attack distance is enhanced.

ROASW system provides Surface to Air (S2A), Surface to Surface (S2S) directional wide band tactical/sensor data exchange, and Ku Band SATCOM (S2SAT) capabilities allowing full Network Concept Warfare (NCW) implementation.



ROASW

Specialists in Underwater Acoustics and Electronics
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ROASW is a two Segment System – AS (Airborne Segment) & SS (Surface Segment)

ROASW-AS is a distant and elevated platform for sensors. The ROASW-AS provide remote ASW capabilities without the need of a dedicated operator.

ROASW-SS controls and monitors ROASW-AS operation from the Surface Segment. Through the data link (STANAG 7085 compliance), acoustic and non-acoustic sensors and tactical data are downlinked and interchanged with other Surface Segments or through SATCOM.



ROASW-AS Capabilities

- Receive sonobuoy (SBY) uplink information from deployed analog and digital SBYs.
- Acquire and process the selected SBY data.
- On-board recording (according STANAG 4283), of the received SBY information together with the annotation and complementary data.
- Relay SBY data together with the annotation and complementary data, AWR and FLIR/TV video to the Surface Segment.
- Remote control available from Surface Segment.
- Control deployed SBYS through UHF commands .
- Ground Support Equipment (GSE) available to load mission data and to unload digitized SBY data and annotation data after mission completion.

ROASW-SS Capabilities

- Provide a wide set of tools and aids for mission planning, direction and control.
- SBYs acoustic signal processing (Analog & Digital SBYs).
- Fast post-mission acoustic signal analysis (FTAS) providing reproduction in real, fast and slow time speed of the SBYs recorded during the ASW mission in order to confirm and classify contacts obtained whilst the mission.
- Remote control and monitoring of the Airborne Segment.
- Display Non-acoustic sensors (NAS) data and
- Radar images together with FLIR/EO composite video sent from the Airborne Segment.
- Control and monitoring the communication modes (S2A, S2S & S2SAT).