

SOLARSUB RDTAS&TAHS

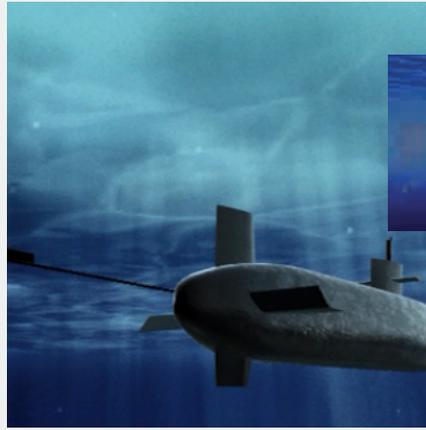
Digital Towed Sonar and Deployment / Retrieval System

SOLARSUB RDTAS is a Digital Towed Sonar designed and manufactured by SAES that provides long detection distances, integrating with the rest of the combat system sonars and easy to install on board the vessel.

SOLARSUB RDTAS allows tracking and classification of multiple simultaneous contacts in a wide surveillance area, providing long detection distances in 360° including surface and stern areas.

SOLARSUB RDTAS is designed and manufactured using low consumption COTS technology and independent modules. Its dimensions are reduced, allowing space saving and easy installation. Depending on the capabilities of the ship or submarine, it can be installed as Clip-on (removable installation) or in an Automatic Deployment and Retrieval Winch (fixed installation).





Installation with winch

Units

SOLARSUB RDTAS is composed of the following units:

- Towed antenna with towing cables and acoustic module
- Signal conditioning unit
- Operator console unit
- Junction box for clip-on (removable installation)

Additional capabilities

- Analogue data recording
- Interactive classification

Deployment system

The deployment and retrieval winch (TAHS) can be provided along with the SOLARSUB RDTAS or independently in case an antenna is already available.

It is composed of the winch unit (TAHS) with the drum, hawser, cutters, water pump and "deployer".

SOLARSUB RDTAS & TAHS comply with shock, vibration, environmental and EMIC standards.

SOLARSUB RDTAS & TAHS are in service on board the Spanish Navy submarines. Extensive sea trials have been carried out to validate the system's performance.

Technical features

Narrow Band Detection: LOFAR in four simultaneous sub-bands.

Threat Contact Detection: simultaneous ZOOMS and MULTIVERNIERS in all channels.

Broad Band Detection: several sub-bands covering 360°.

Channel Analysis: DEMONS associated with each contact.

Tracking: automatic in broad and narrow band.

Digital Data Recording: using standard recorders.

Integration Time and Anti jamming: in broad and narrow band.

Audio: channels for audio playback, recording, classification and tracking.

Transient Detection: in each channel.

Interception and analysis: for active transmissions.

Broad Band Detection with Correlation