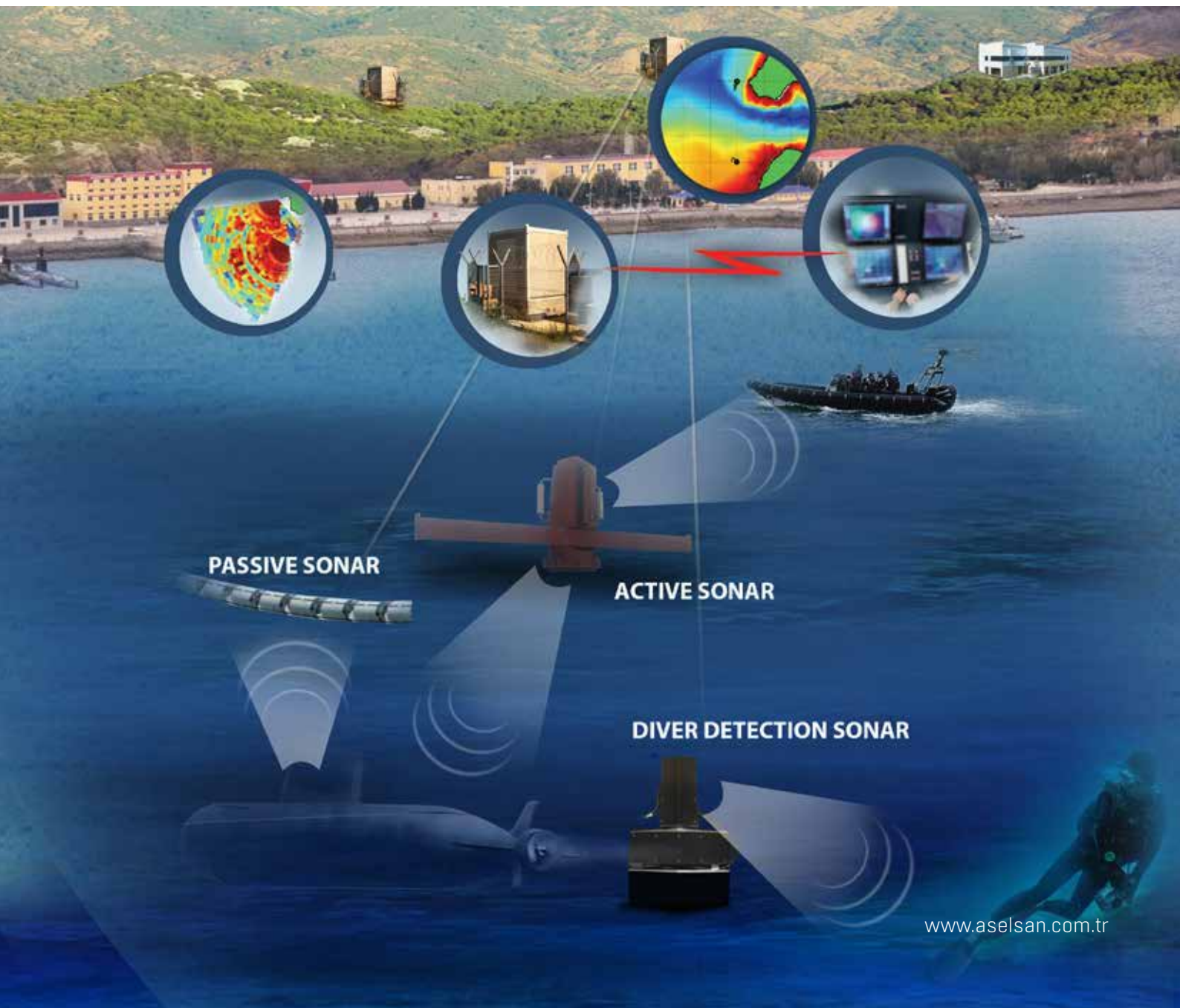


SATS

UNDERWATER ACOUSTIC DETECTION SYSTEM





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ASELSAN Underwater Acoustic Detection System is designed for protecting strategically important harbours with different types of sonars.

Configuration

Diver Detection Sonar: (DDS)

- ASELSAN DDS is high frequency sonar with high resolution.

Active Sonar:

- Active Sonar is used for detection of submarines, RHIBs and SDVs at long ranges.

Passive Sonar:

- Passive sonar has the capabilities to detect targets in demanding environments and at long ranges.

Underwater Cables:

- The connection between the Shelter and in-water units will be established via Underwater Cables. These cables are used for data and power transmission.

Shelter:

- Contains the Signal Processing Cabinet, Operator Displays, power electronics units for sonar in-water units and fiber optic ethernet switches for data communication.

Signal Processing Cabinet:

- The data received by sonars is processed in the Signal Processing Cabinet and presented on Operator Displays.

Operator Displays:

- Operator is able to get information about the tracks and targets on the displays.

General Features

- Detecting targets
 - Open/Close Circuit Divers
 - Swimmers
 - Swimmer Delivery Vehicles (SVD)
 - RHIB (Ruggedized Hull Inflatable Boat)
 - Submarine
 - Surface Ships
- Automatic detection
- Automatic target detection alarm
- Target Tracking
- Classification
- High detection performance
- Modular design, open architecture
- Adjustable source level, pulse length and pulse type according to environment and target conditions
- LFM and HFM transmission for high resolution target detection
- CW pulse for doppler sensitivity
- High range and bearing accuracy
- Low false alarm rate and high probability of detection with automatic noise estimation
- User friendly interfacing standards based on naval requirements