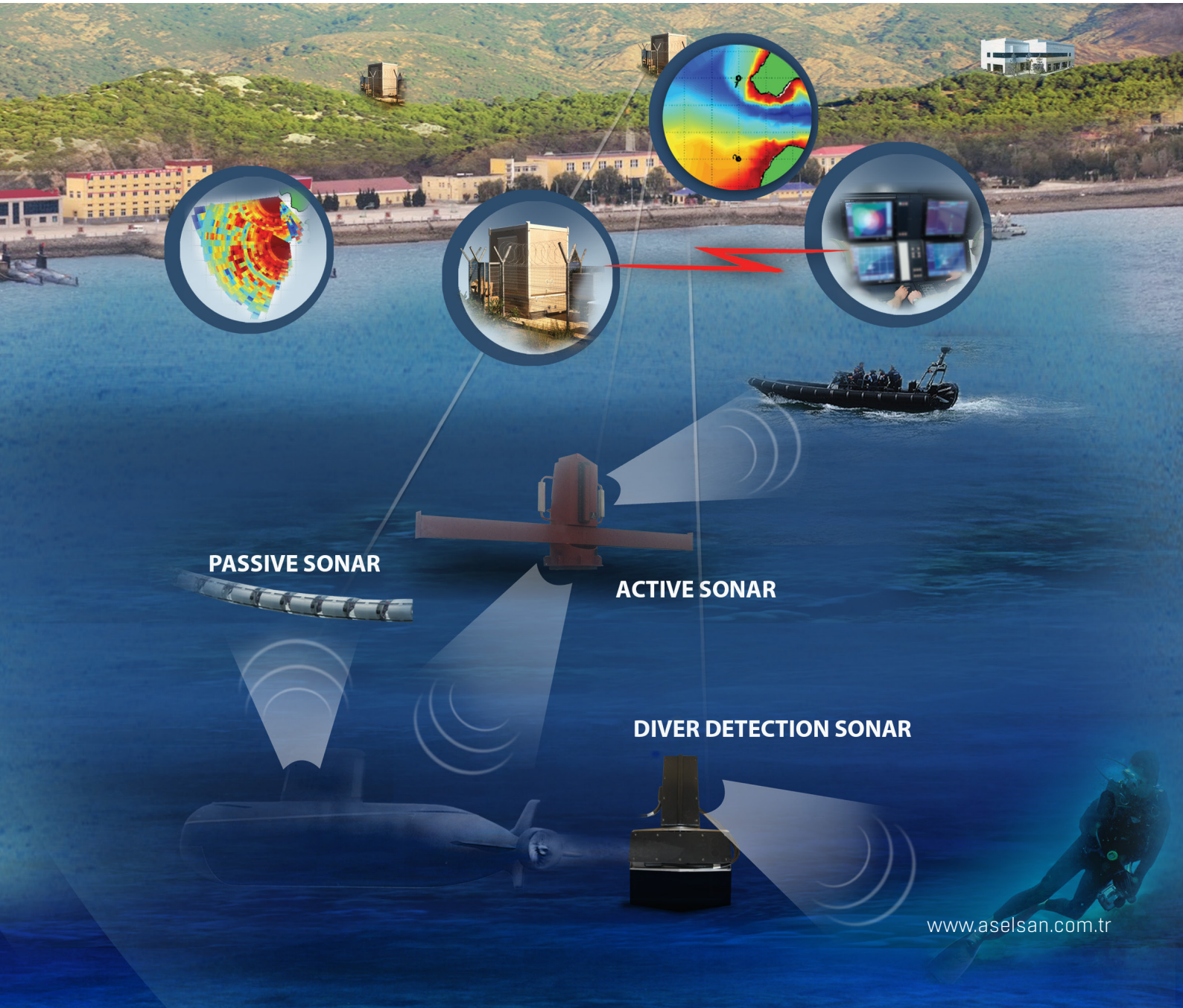


SATS

UNDERWATER ACOUSTIC DETECTION SYSTEM



PASSIVE SONAR

ACTIVE SONAR

DIVER DETECTION SONAR



SATS

UNDERWATER ACOUSTIC DETECTION SYSTEM

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