

Underwater Acoustic Systems

Improve Your Underwater Awareness

Meteksan Defence is providing high technology solutions with 'Center of Excellence' approach to meet the Underwater Acoustic System needs of Turkish Naval Forces Command and international customers to add value to the platforms.

Primary Focus Areas

Having technological knowledge, capabilities and experiences starting from piezoelectric ceramics, which is the basic component of underwater acoustic systems, up to the operator interface software;

- Platform Sonar Systems,
 - Sensors & Electronics of Underwater Weapon and Counter Measure Systems,
 - Underwater Early Warning & Sensor Network Systems,
 - Underwater Digital Acoustic Modem & Communication Systems
- are defined as the primary focus areas of interest for Meteksan Defence.

Besides these, Meteksan Defence does underwater acoustic sensor development studies by using new type materials & technologies, such as acoustic vector sensors, fiber optic acoustic sensors, textured ceramics, single crystal sensors etc, which are defined as "Development of Acoustic Sensors with Different Type and Frequencies", in the "Sensors Road Map" Turkish of Presidency of Defence Industries.



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Underwater Acoustic Systems



Our Capabilities

Basic wet-end capabilities:

- Design, modeling, analysing, production, test and calibration of water-tight and/or pressure resistant underwater acoustic sensors and acoustic window structures,
- Design, modeling, analysing and testing of stave and/or carcass structures,
- Installation, setting to work, integration to platform and acceptance tests.

Basic dry-end capabilities:

- Modern sonar architectural structures,
- Sonar signal processing, beam forming H/W & S/W's,
- Sonar operator console, display and interface H/W & S/W's.

Being Turkish Navy's industrialization partner for MILGEM Sonar YAKAMOS, industrial production documentation, Factory Acceptance Test (FAT), Setting to Work/System Integration Test (STW/SIT), Harbour Acceptance Test (HAT) and Sea Acceptance Test (SAT) activities are successfully conducted on overall system level and respective capabilities are built up.



Infrastructures

- Sensor Design, Modeling, Analysis, Test Tools and Softwares,
- Laboratory Level Sensor Test Tank,
- Sensor/Underwater Cable Leakage Control Pressure Tank,
- Bilkent Lake Open-Water Test and Calibration Facility,
- Test and Calibration Pool Facility,
- Temperature and Pressure Controlled Performance Test Tank,
- Dry-end Electronics' Hardware and Software Design, Development, Production, Integration, Test Tools and Softwares.

