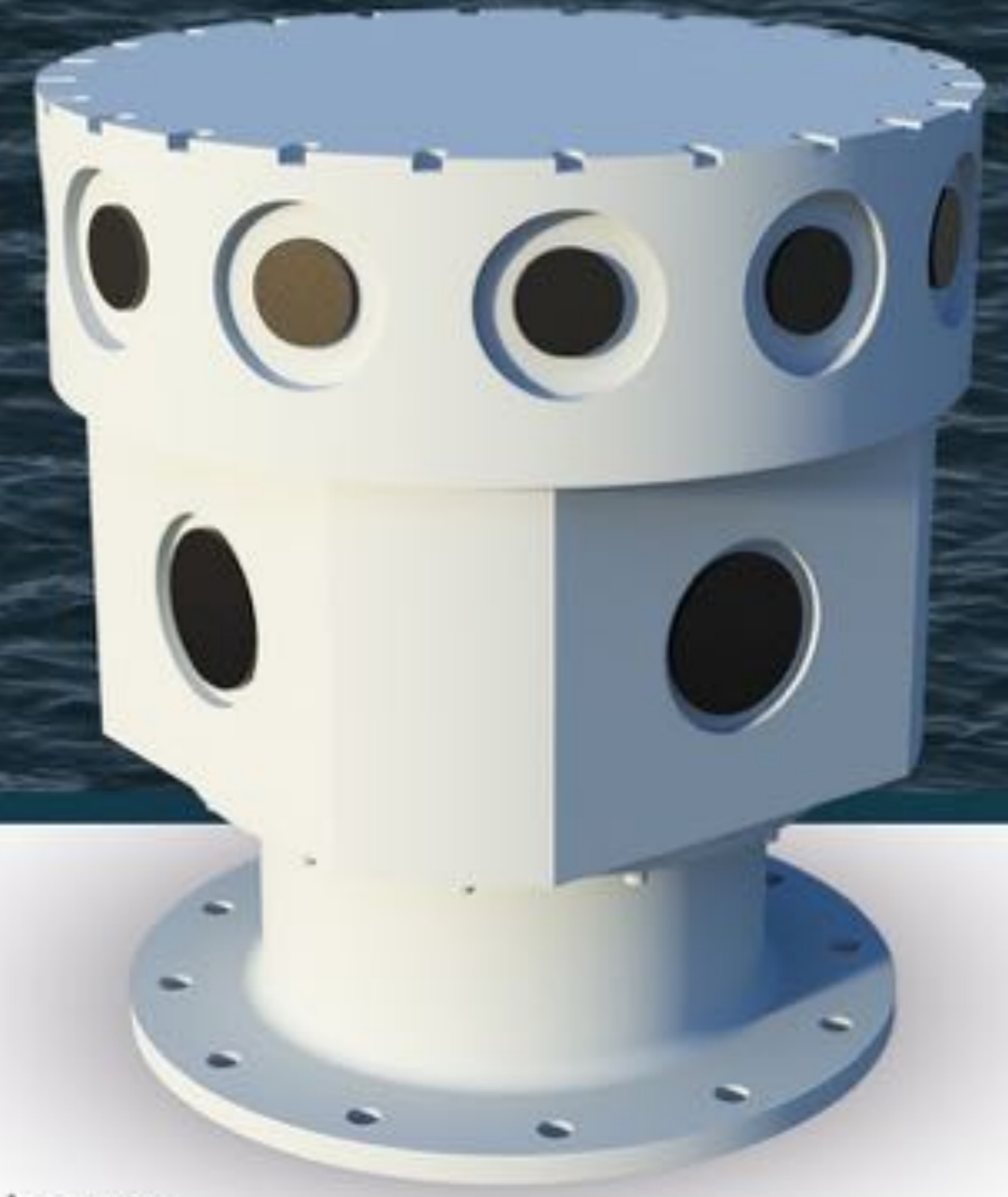


Submarine Intercept Passive Sonar (IPS)



Reveal the Invisible

IPS is a broadband submarine intercept sonar which utilizes its state-of-the-art sensor technology to possess an advanced capability to detect, analyze and track active acoustic signals in a frequency range from 1 kHz to 100 kHz integrated with the submarine's existing acoustic array and Turkish National Submarine Combat Management System (MUREN-SYS).

Technical Specifications

IPS consists of an acoustic sensor unit and a processing unit. The acoustic sensor unit is composed of a hydrophone array and front-end electronics. The processing unit comprises a signal processor and an operator console. The operator console facilitates system control and display operations.

IPS offers the operator a choice for the sensor to be used as the data source.

The system is capable of analyzing multi pulses simultaneously and measuring the Detection Time, Bearing, Frequency, Level, Length, Repetition Interval and Transmission Mode parameters of detected pulses and Bearing – Time, Level – Time, Frequency – Time, Level – Frequency pulse graphs are plotted.

IPS allows the user to listen to real-time direct and synthetic audio. The operator is assisted with an adjustable intercept threshold and short pulse suppression function to reduce false alarms.

IPS supports recording and audio-visual replaying of the detected pulse data. Recorded pulse data can be exported via a portable disk. An external software to extract the recorded pulse data for future analysis is also provided.



www.meteksan.com

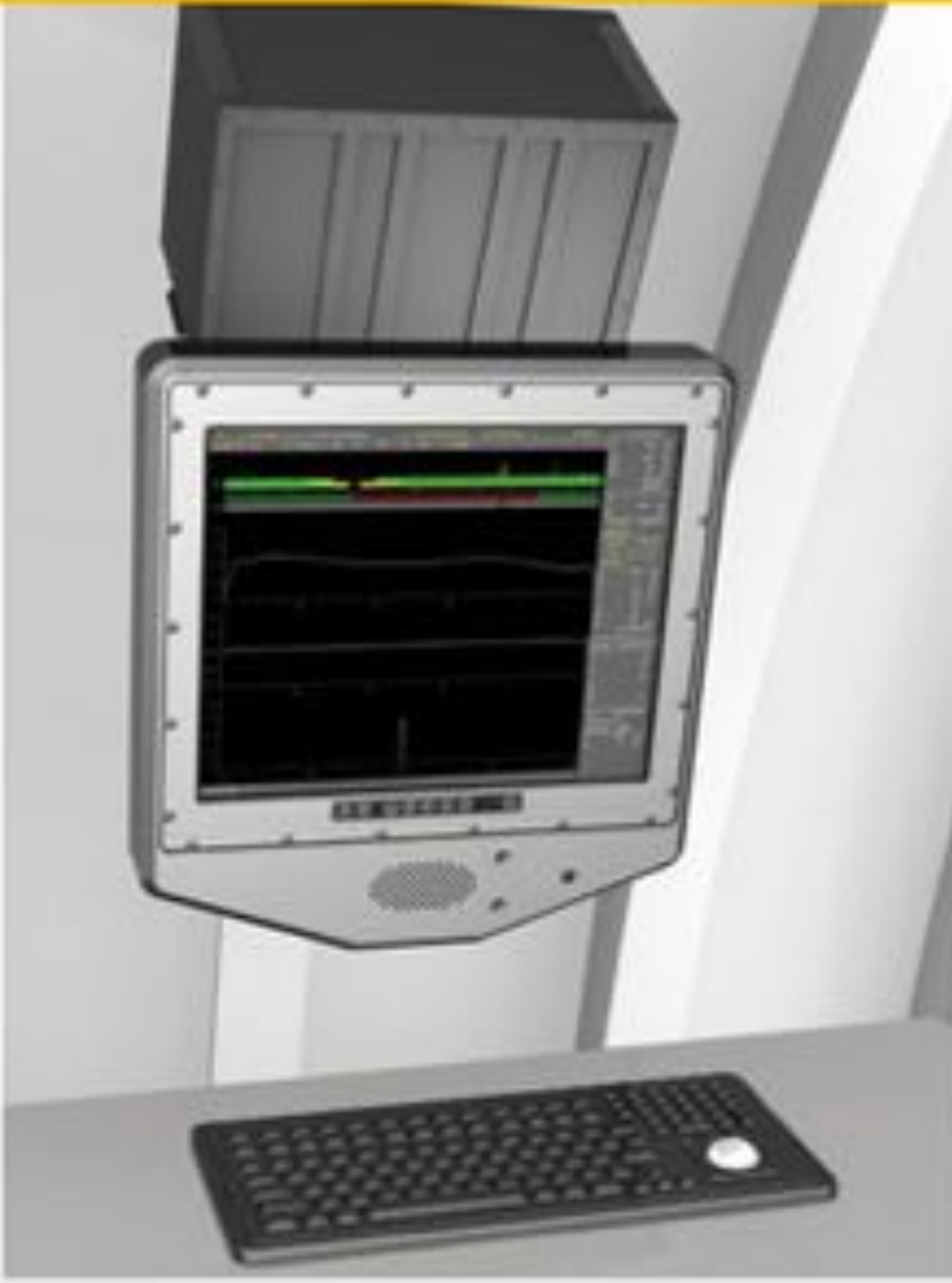


IPS is developed jointly by TÜBİTAK BİLGEM and METEKSAN SAVUNMA within the scope of the project numbered 115A063 (115A064) supported by TÜBİTAK.



METEKSAN
SAVUNMA

Submarine Intercept Passive Sonar



State-of-the-art Acoustic Array and Processing Unit Design

Future technology has been integrated into today's product. IPS provides an operator-friendly, comfortable and convenient UIX. IPS system is a modern sonar system integrated with Turkish National Submarine Combat Management System (MUREN-SYS) and submarine's existing acoustic array where advanced and robust signal processing methods have been utilized.

The high level of performance, accuracy and precision together with its fast production and low cost, distinguish IPS system from its counterparts.

Key Features



Easy to use, operator-friendly interface



Advanced and robust signal processing methods



Innovative hydrophone design - higher sensitivity compared to conventional methods



Compact system solution



Modular Design



Hydrodynamic Wet End Design - Less noise, higher performance



Low cost



Fast Production

High Performance

- Detection, analysis and automatic tracking of active sonar transmissions
- Real-time background and pulse audio
- Stand-alone usage
- Integration to Combat Management System
- Built-In-Test Capability
- Recording and exportation of pulse data
- External Pulse Data Replay Software

