

YAKAMOS Hull Mounted Sonar System



The Eyes of Your Corvettes and Frigates

YAKAMOS Hull Mounted Sonar System is a medium frequency, surface ship ASW and obstacle avoidance sonar, which is designed for the surveillance of the underwater environment to automatically detect and track underwater targets.

Key Features

- Sea proven performance all over the World with Turkish National Corvette MILGEM
- Medium frequency Hull Mounted Active Sonar for corvettes and frigates
- Stand-alone system with multiple interfaces to detect, track and classify
- Automatic target tracking
- 360 degrees of surveillance for torpedo
- Simultaneous active and passive 360 degrees of operation
- Open architecture design, Software Defined Sonar (software configurable)
- Scalable & Configurable & Reliable & Maintainable
- Built-in-test capability
- Integrated on-board simulator with raw data recording and playback capabilities
- Integrated on-board training
- Interface with XBT (Expendable Bathythermograph) and Performance
- Prediction Function for Sonar Optimization
- Interfaces with UWT, CMS, TCMS and SDDS
- Safe operation for marine mammals with adjustable source level
- Omnidirectional, sectorial, rotational, mine and obstacle avoidance transmission modes
- User friendly operator interface
- Interoperability with Towed Arrays and Sonobuoys
- Lifetime Integrated Logistics Support



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Functional Interfaces

External Interfaces:

Combat Management System
XBT/XSV
Gyro & Compass
Underwater Telephone
TCMS

Human Machine Interfaces (HMI):

HMI of MILGEM Hull Mounted Sonar System is implemented into a standard Multi Function Console (MFC) which includes, 2 24" Flat Panel LCD displays, keyboard, programmable display keys and a trackball.

Main Functions of

HMI Are given below:

Mode Selection
Parameter Selection
Track Management
Data Presentation Display Type Selection

Key Features



Built-In Test (BIT)



Automatic Alarm Generation



Data Recording



Automatic Target Tracking



Calculation of Performance Predictions



Torpedo Alert

System Configuration

System mainly contains the below configuration items;

- Sonar Wet-End Unit (Hull Mounted Cylindrical Transducer Unit)
- Power Amplifier (PA) Cabinet
- Analog Pre-Processing Cabinet
- Digital Signal Processing Cabinet
- Operator Console

According to the operational concept, below items can optionally be added:

- Power Distribution Cabinet
- UPS Cabinet
- Land Based Test System (LBST)

