



M670 HMS

Hull-Mounted Sonar

HIGH-PERFORMANCE, COMPACT, COST-EFFECTIVE ASW SONAR

OVERVIEW

A high-performance active and passive sonar, the M670 provides surface ships with the means to detect, classify, track and localize underwater targets including submarines, torpedoes and mid-water mines and obstacles.

The M670 is a lighter, compact, cost-effective solution that

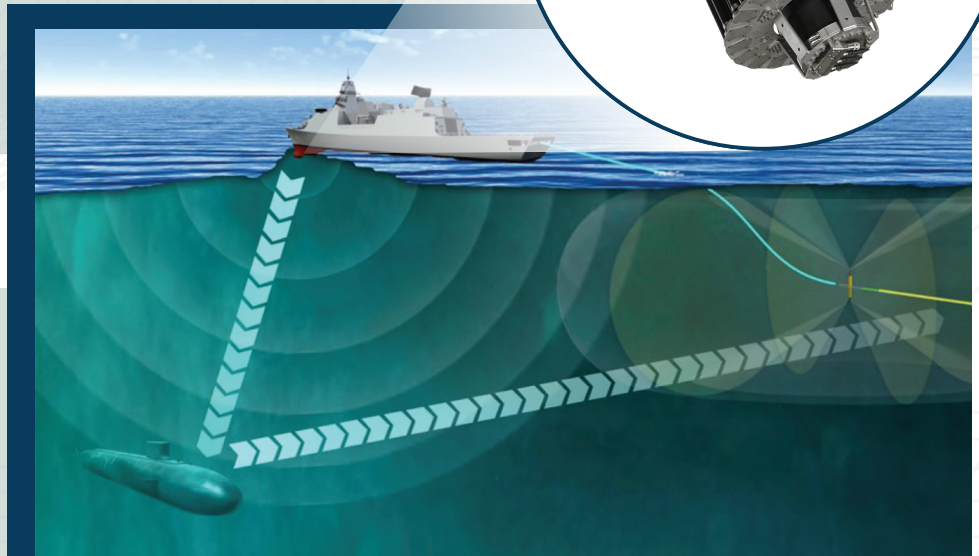
is easily integrated into a wide variety of new or upgraded naval vessels. This hull-mounted sonar is a wise and affordable choice for navies seeking high-performance ASW capability for open-sea as well as littoral environments.

CONCEPT OF OPERATIONS

The M670 can be used standalone, interfaced to a CMS, or act as part of a full multi-agent underwater suite including towed source and array, sonobuoy, torpedo defence and multistatic.

COMPONENTS

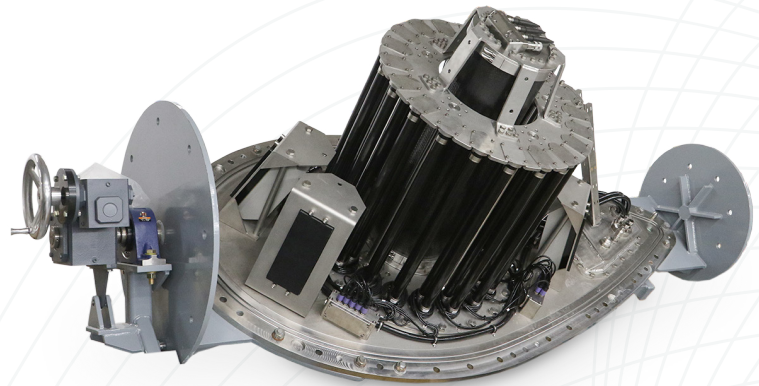
- Transducer assembly in a sonar dome
- Power amplifier
- Sonar rack for management, interface control and sonar processing
- Operator's console



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SPECIFICATIONS

Array	Multiple vertical staves of single-element transducers tailored to customers' requirements
Source Level	Customizable
Active Capability	Low to medium frequency
Passive Capability	Broadband, Narrowband, Demon, Transient
Pulse Types	CW, FM, CUSTOM



FEATURES

- Active and passive submarine detection
- Active and passive torpedo detection and alert
- Flexible fixed and operator-defined waveforms for optimal performance
- Multi-target automatic tracking
- Classification support
- Advanced, user-friendly sonar processing and display with built-in analysis tools
- Integrated situational awareness display on a powerful digital map tool
- Available interfaces to CMS, underwater telephone, acoustic decoy system

- Extended time-history recall for further contact analysis
- Data recording and replay
- Built-in Test (BIT)
- Sonar performance modelling and estimation

OPTIONS

- Customizable frequency range
- On-board simulator and trainer
- Portable Bathythermograph (XBT) system
- Customizable transducer assembly and dome dimensions
- Upgrade of existing HMS
- Integration with towed array sonar

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