



M660 HMS

Hull-Mounted Sonar

HIGH-POWERED ASW SONAR

OVERVIEW

A high-powered, active and passive, long-range ASW sonar. The M660 HMS is suitable for in-service and future naval vessels. Completely customizable and built to meet complex environmental conditions and end-user requirements. Even after installation the M660 is extremely flexible and can be repurposed for multi roles with simple software updates.

The M660 has a customizable transmission frequency range that will allow the operator to adjust for environmental conditions as well as specific mission requirements. Specifically, lower frequencies for submarine detection and higher frequencies are suitable for the detection of moored mines.

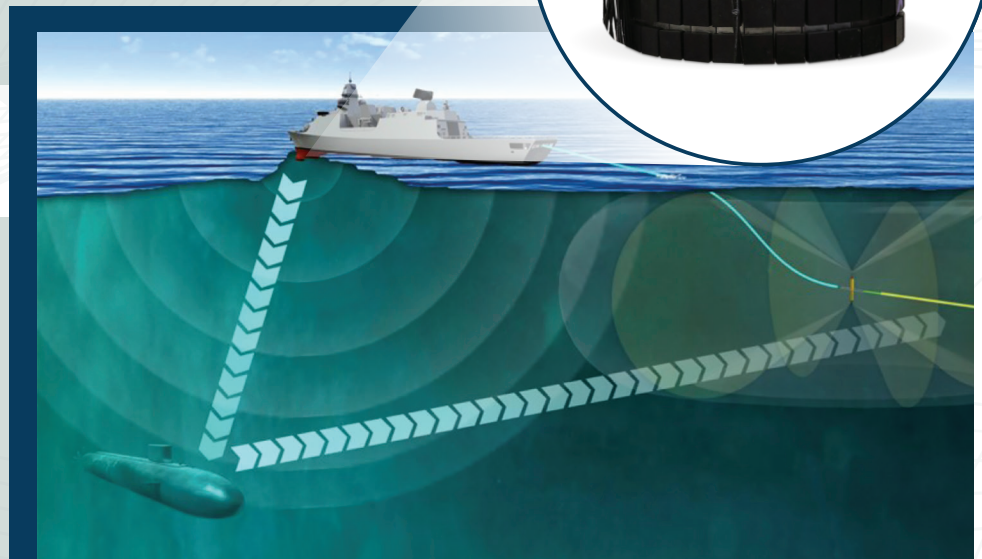
CONCEPT OF OPERATIONS

The M660 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	Centred active transmit array surrounded by multiple passive receive arrays
Source Level	Customizable
Active Capability	Customizable with medium to high centre frequencies
Passive Capability	Broadband, Narrowband, Demon
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

- 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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