

# TRAPS TOWED REELABLE ACTIVE PASSIVE SONAR





TRAPS provides surface ships such as OPVs, corvettes, ships of opportunity, and USVs with concurrent, high-performance active and passive sonar capability for detection, classification, tracking and localization of underwater targets. Its compact form enables integration in a wide variety of new or upgraded naval vessels of all sizes and provides a variety of installation options, including containerization on multimission vessels and standard deck-mounting.

Cost-effectiveness makes TRAPS a wise, affordable choice for navies seeking high-performance anti-submarine warfare (ASW) capability for open-sea and littoral environments. All-in-One Design TRAPS incorporates a single tow with a Vertical Projector Array (VPA); no handling system required to deploy, retrieve, and stow. This reduces footprint, weight, and price. Multi-Mission Capability TRAPS is ideal for littoral operations and very useful in deep water as part of a multistatic system.







## CONCEPT OF OPERATIONS

Modularity and no requirement for an overboarding system make TRAPS readily deployed for ASW operations on a large variety of host vessels. TRAPS can be operated locally from the built-in operations room or from the CIC and can be interfaced to the ship's CMS. It can be augmented by and fully interoperable with a Hull Mounted Sonar (HMS) such as GeoSpectrum's M670 HMS, enabling bi-static and multi– static operations. TRAPS can be part of an integrated ASW suite including multiple sonars, torpedo defense systems, underwater communication and bathythermograph systems.

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## INTEGRATED PROCUREMENT TECHNOLOGIES

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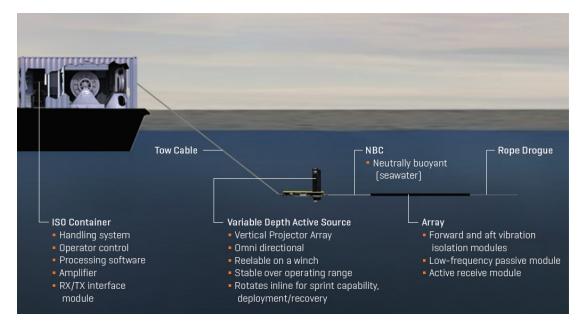




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### SUMMARY

Robust design, proven operational and class-leading components, and advanced, flexible and user-friendly sonar processing and display distinguish TRAPS as a highly cost-effective choice for high performance variable-depth sonar.



## **FEATURES**

- · Active and passive submarine detection
- Active and passive torpedo detection and alert
- Variable-depth operation
- Multi-target tracking
- Left-right ambiguity resolution
- Advanced user-friendly sonar processing and display with built-in analysis tool
- Ability to swap source to different frequency
- Flexible, compact deployment on Frigates, Corvettes, OPV, patrol boats and USVs
- Standalone or interfaced to CMS; integration into underwater suite
- Organic or containerized configuration
- Reelable vertical source; no dedicated launch and recovery system needed

## **SPECIFICATIONS**

- Active sonar frequency: 2 10 kHz
- Source level: 216 dB re 1 µPa at 1 m
- 360-degree operation
- Pulse types: CW, FM, LFM, HFM, COSTAS, Custom
- Pulse length: 0.05 to 10 seconds
- Passive sonar frequency: 5 3000 Hz
- Passive processing: broad band, narrow band, DEMON, transient
- Min operating depth: 10 m
- Max operating depth: 300 m
- Max operational speed: 17 kts
- Max survival speed: 30 kts
- Shock: MIL-STD-901D
- Vibration: MIL-STD-167-1

## **OPTIONS**

- Built-in simulator
- Provision for underwater communications
- · Bi and multi-static processing

- Sonobuoy processing capability
- Black box pinger detection
- Continuous Active Sonar (CAS)

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