



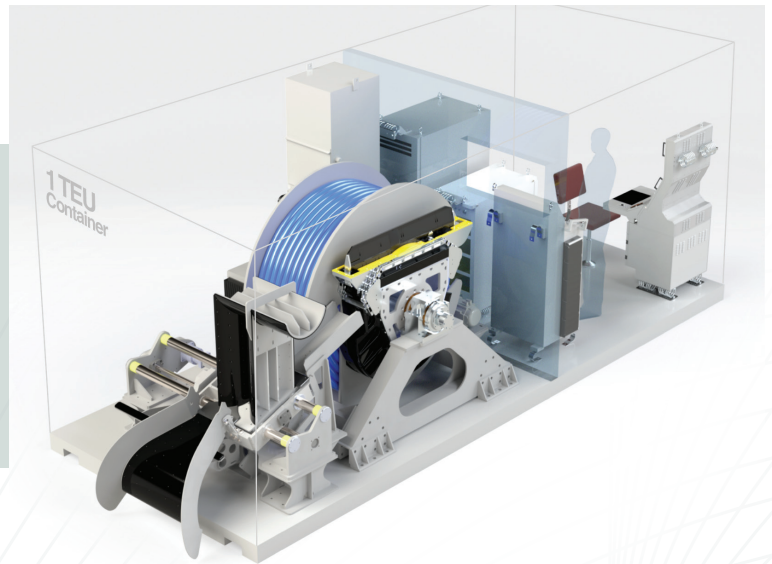
TRAPS

Towed Reelable Active Passive Sonar

HIGH-PERFORMANCE, MODULAR COST-EFFECTIVE ASW SONAR

SUMMARY

TRAPS is a family of variable depth, active passive sonars. With its **robust, modular design** and advanced, flexible sonar processing, TRAPS is an ideal choice for navies seeking high-performance anti-submarine warfare (ASW) capabilities while increasing fleet flexibility. TRAPS is available in containerized, organic, and USV variations.



OVERVIEW

With **All-in-One Active Design**, TRAPS incorporates a **single tow** with a Vertical Projector Array (VPA); no separate handling system is required to deploy, retrieve and stow. This reduces footprint, weight and cost. With **Multi-Mission Capability**, TRAPS is ideal for littoral operations and, in deep water, as part of a multistatic system.

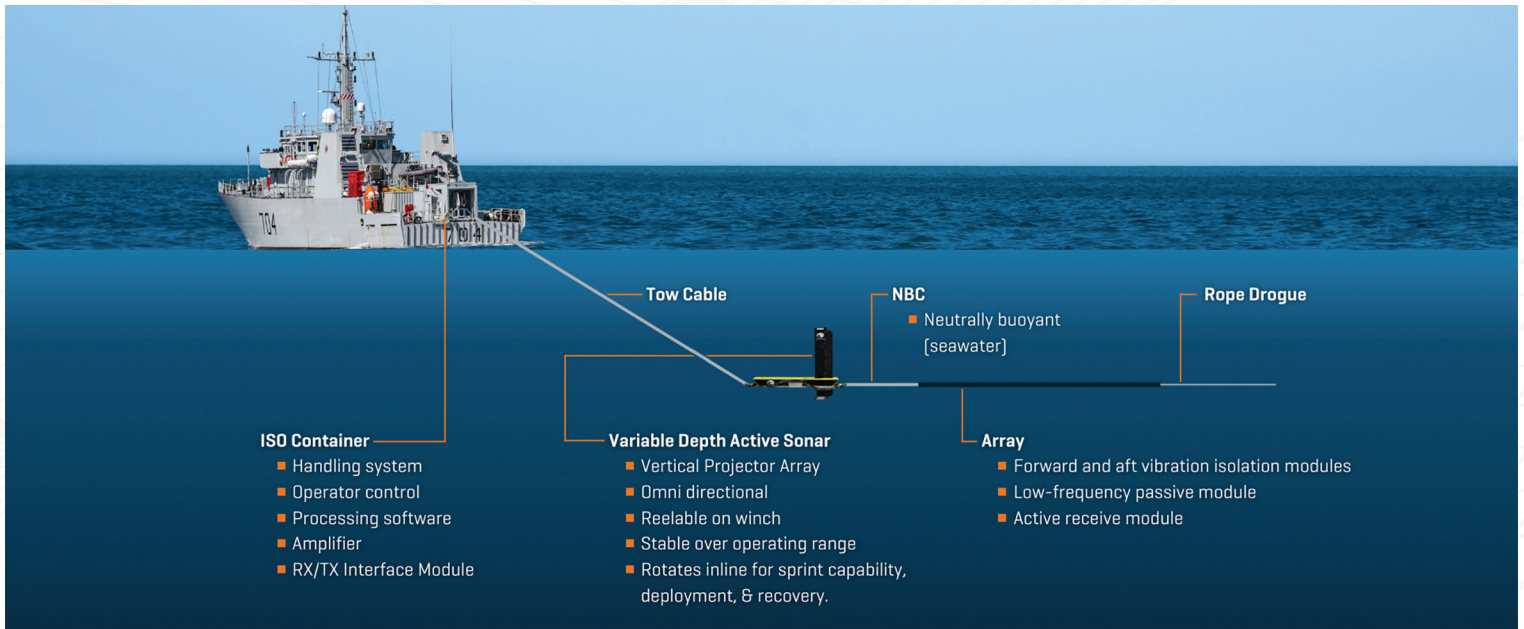
TRAPS's containerized form enables integration into a wide range of new or upgraded naval vessels of all sizes. With its **modularity**, TRAPS is readily deployed and operated from its built-in operations room or the CIC and can be interfaced to the ship's CMS.



CONCEPT OF OPERATIONS

With GeoSpectrum's software processing, TRAPS provides surface ships such as OPVs, corvettes, ships of opportunity and USVs with high-performance active and passive sonar capability for detection, classification, tracking, and localization of underwater targets. TRAPS can be part of an integrated ASW suite including multiple sonars, torpedo defense systems, underwater communication and bathythermograph systems.

TRAPS Towed Reelable Active Passive 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, containerized or USV configuration
- Reelable vertical source; no dedicated launch and recovery system needed

OPTIONS

- Built-in simulator
- Provision for underwater communications
- Bi and multistatic processing

SPECIFICATIONS

- Active Sonar Frequency: 2 – 10 kHz
- 360-degree operation
- Pulse types: CW, FM, LFM, HFM, COSTAS, Custom
- Pulse length: 0.05 – 10 seconds
- Passive sonar frequency: 5 – 2500 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

- Sonobuoy processing capability
- Black box pinger detection
- Continuous Active Sonar [CAS]

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