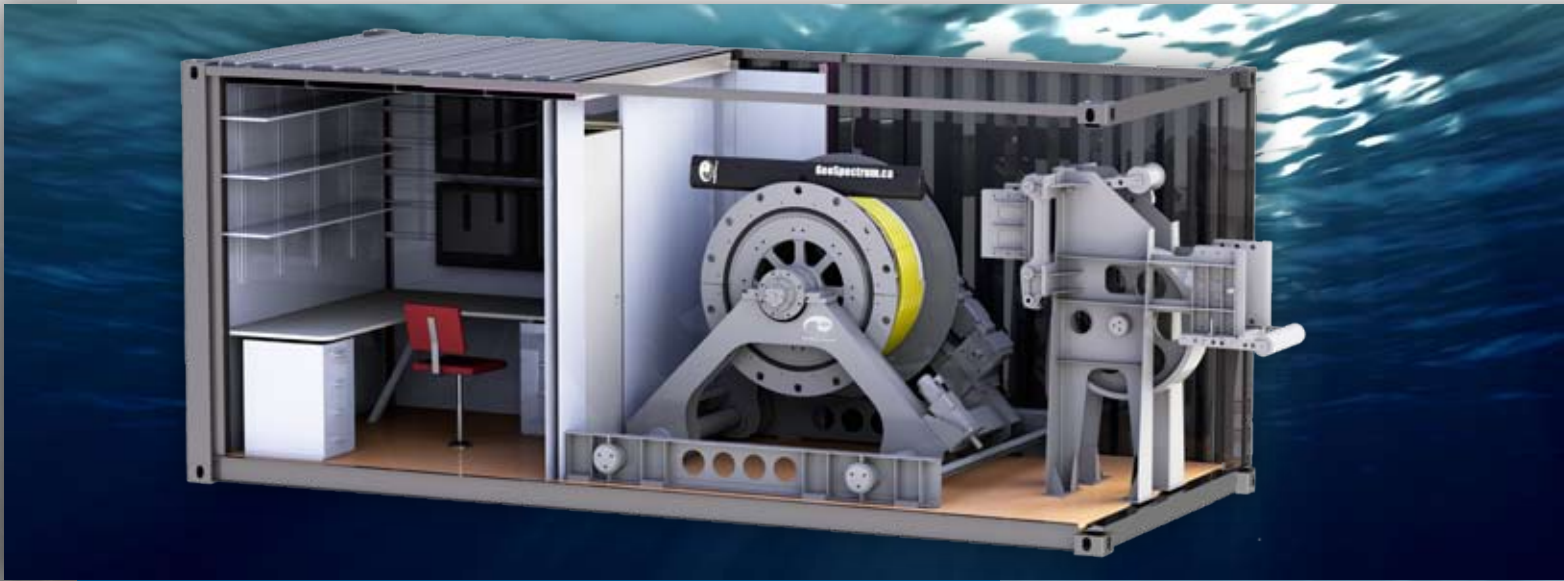




**GeoSpectrum Technologies Inc**  
Customizing Detection

# TRAPS - Towed Reelable Active Passive Sonar

**Cost-Effective, Compact ASW Capability**



## ASW Now!

TRAPS is a compact, low-cost active passive variable depth ASW sonar for in-service and future navy vessels. TRAPS meets the compact footprint required for small combatants and the performance required to detect submarines, torpedoes, and surface ships.

## Modular, All-in-One Design

TRAPS incorporates a single tow with a Vertical Projector Array (VPA) and does not require a handling system 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. The modular design of TRAPS provides a variety of installation options, including containerization on multi-mission vessels and standard deck-mounting. TRAPS can be used on small combatants such as OPVs, corvettes, ships of opportunity, and USVs. Applications include naval defence/surveillance, drug interdiction, homeland security, and other water-borne policing.



NAVAL

**GeoSpectrum.ca**

# TRAPS - Towed Reelable Active Passive Sonar

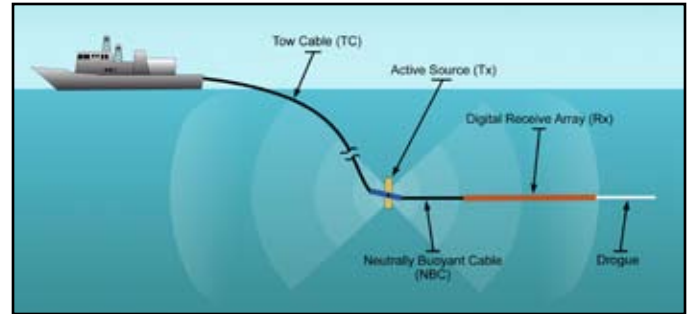
## Cost-Effective, Compact ASW Capability

### Features

- Detection tracking & identification for – submarines, midget submarines, surface ships, marine mammal, optional capabilities – see below
- Variable depth operation
- Real time detection, classification & localization
- Multi-target tracking
- Left-right ambiguity resolution
- Multi-static capability
- Advanced user-friendly sonar processing & display with built-in analysis tools
- Options
  - Active torpedo detection
  - Blackbox pinger detection
  - Sonobuoy processor

### Deployment

- Flexible compact deployment on Frigates, Corvettes, OPV, patrol boats & USVs
- Standalone, interfaced to CMS, part of underwater suite (hull mounted sonar, sonobuoy, torpedo defense, multi-static)
- Patent Pending reelable vertical source configuration with horizontal beam pattern
- Installed or containerized configuration
- Winch operated system – no need for dedicated launch & recovery system



### Specifications

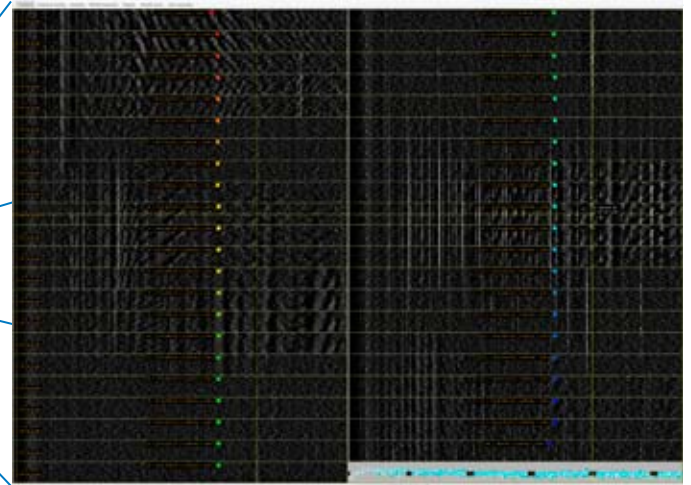
Frequency	2 kHz
Source Level	213 dB/1 μPa
Transmit	Omni-directional
Receive	Directional Receive Array
Detection Range	Up to 1 CZ Typical (Environment-dependent)
Minimum Operating Depth - Full Power	10 m
Maximum Operating Depth	150 m
Tow Speed	17+ kts
Transit / Survival Speed	25+ kts
Winch & Fairlead Footprint	2.0 m X 4.2 m X 1.8 m high



Winch & Fairlead Supplied by INDAL Curtiss-Wright



Operator Console



Data Screen

GeoSpectrum Technologies Inc.  
10 Akerley Blvd, Unit #19 Dartmouth,  
Nova Scotia Canada B3B 1J4

Tel: (902) 406-4111  
Email: sales@geospectrum.ca  
GeoSpectrum.ca

