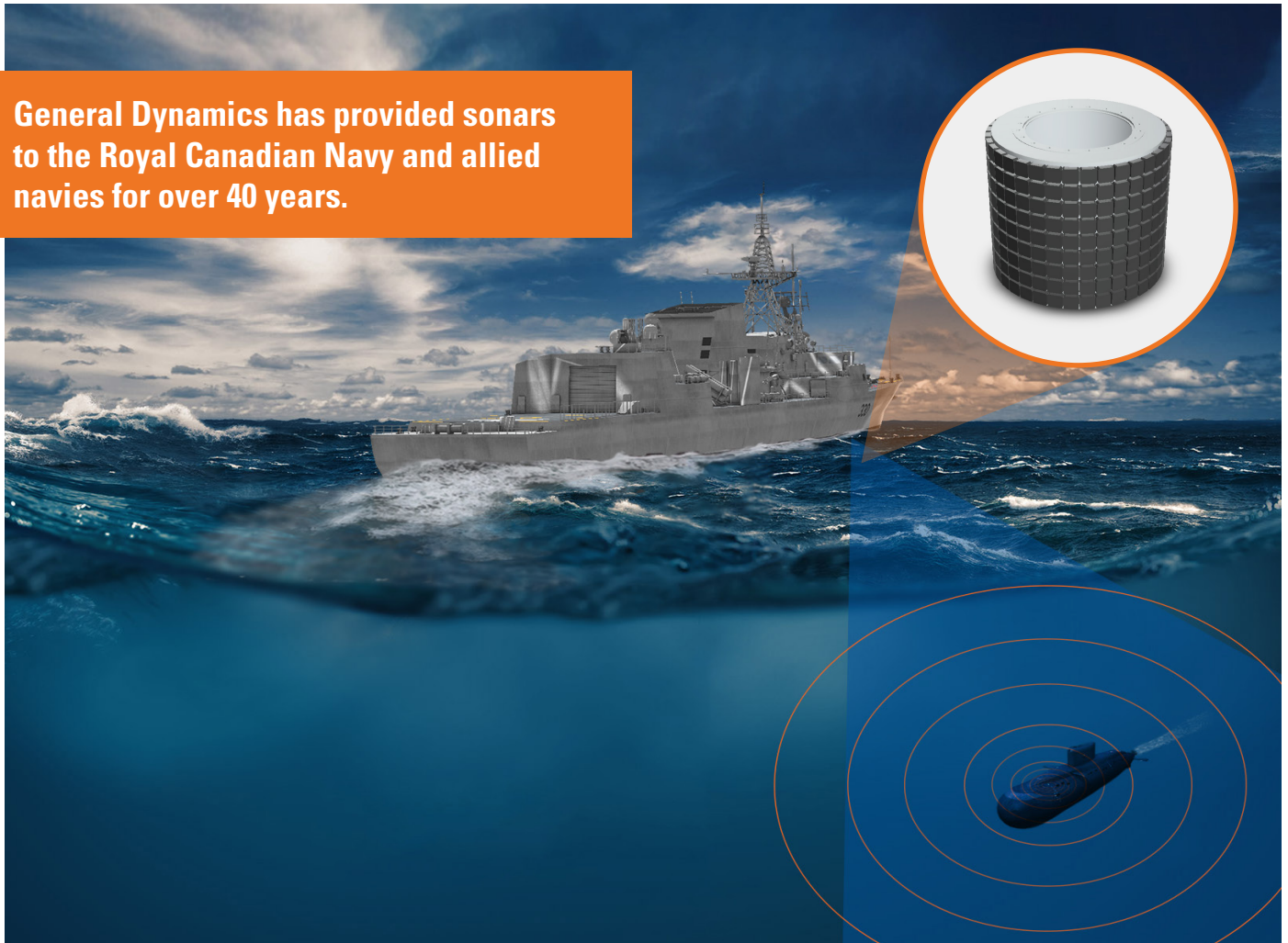


HMS-510 V2 Broadband Hull Mounted Sonar

General Dynamics has provided sonars to the Royal Canadian Navy and allied navies for over 40 years.



Operational Features

- Cylindrical array that easily integrates with virtually any ship platform in either a Bow Mount, Keel Mount or VDS Configuration
- Omni-directional surveillance with full target detection, tracking and localization capabilities
- Narrow and wide directional fine tracking capability helps suppress unwanted ambient and non-target energy
- Modern user-friendly interfaces and tools minimize operator workload and maximize mission effectiveness
- Situational Awareness display to enable correlation between sensor acoustic data and CMS tracks
- Concurrent active and passive processing
- Diagnostics function ensures operational reliability
- Leading-edge Undersea Warfare sensor, with modern signal processing and operator display capability
- Significant operational capability in both littoral and deep water environments
- Proven operational effectiveness with a broad range of target detection and mission complexities
- High fidelity power and pulse control for marine mammal, small object (mine) or submarine detection
- Wide selection of transmit pulse types to satisfy multiple target and environment combinations

Rapid Anti-Submarine Warfare (ASW) suite integration, keeping your fleet mission ready.



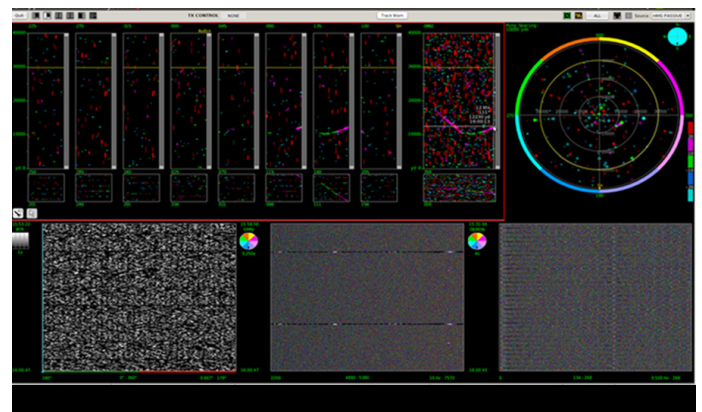
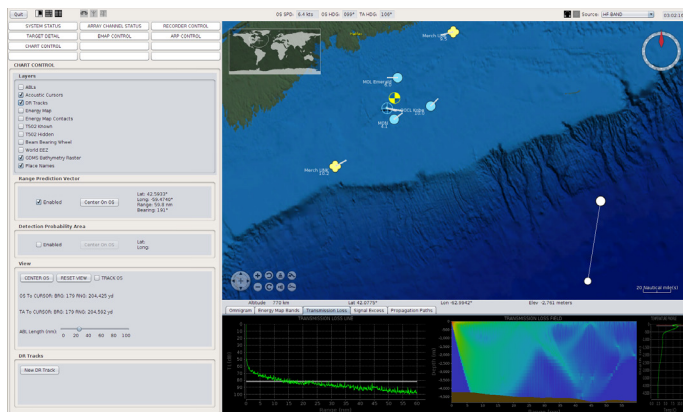
Corvette

Frigate

Destroyer

Technical Characteristics

Active source centre (Tx) frequency	5-14KHz
Omnidirectional sound pressure level	High
Directional sound pressure level	High +
Transmit pulse length	5ms, 50ms, 250ms, 1, 2, 4, 8 and 16
Transmit pulse type	FM, CW, HFM/CW, Custom
Transmit interval range	125, 250, 500, 1000, 2000, 4000, 8000, 16000, 32000, 64000, 128000, Custom
Frequency Modulation Transmit Bandwidth	Wide FM Swept
Receive band (Rx) frequency coverage	1-16KHz
Transducer Arrangement	36 Vertical Staves – 10 Single Element Transducers (SETs) per staff
Transducer Configuration	Fixed (Vertical Hoist Available as Option)



The product described here represents a general configuration of this family of products. Specifications are configurable for specific customer requirements. For pricing and availability information, please contact your General Dynamics representative.

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