

BlueSentry®

Thin Line Towed Array



BlueSentry®

Thin Line Towed Array

Thales Australia BlueSentry® Thin Line Towed Array is one of a number of next generation Sonar Array Payloads designed and manufactured in Australia by Thales to support Anti-Submarine Warfare (ASW) and Maritime Domain Awareness (MDA) through deployment on Surface and Sub-Surface platforms. The BlueSentry® Thin Line Towed Array comprises world class acoustic sensor technology and signal processing designed and manufactured in Australia. In an operational environment the BlueSentry® Thin Line Towed Array is capable of being deployed from a range of host platforms such as:

- Uncrewed Surface Vessel (USV),
- Uncrewed Underwater Vessel (UUV),
- Warship or Submarine, or
- Craft of Opportunity (COOP)

Concept of operation

As the primary Sonar sensor fitted to ASW surveillance platforms, the BlueSentry® Thin Line Towed Array can be rapidly deployed to a range of platforms using plug and play clip on technology or as part of an open architecture mission payload. This includes bi-static and multi-static capabilities, Narrowband detection through edge computing, and shore-based situational awareness and surveillance. Through Thales communications, our world renowned Sonar display technology is securely delivered into the shore-based operations centre.

The BlueSentry® Thin Line Towed Array supports 24/7 - detection, classification and localisation of craft on or below the surface. The BlueSentry® Thin Line Towed Array supports plug and play secure ship-shore transmission of acoustic data, providing greater situational awareness to shore-based decision makers, through effective USV/ UUV teaming and network communications.

Deploying the BlueSentry® Thin Line Towed Array from the host platform:

- Reduces the effect of ownship self-noise on acoustic sensor performance,
- Enables improved Sonar detection performance, and
- Provides acoustic data collection on a range of vessels, such as Warships, Submarines and other vessels of interest.

Sonar payloads

The BlueSentry® Thin Line Towed Array is an important sensor which complements a suite of Thales Sonar payloads designed to be integrated into a range of host platforms. The BlueSentry® Thin Line Towed Array is a scalable technology solution that can be deployed on platforms that have varying levels of Size, Weight and Power (SWaP) allocations and can be configured to support a demanding range of operational requirements and host platform characteristics, including platforms with limited SWaP capabilities such as USVs and UUVs.

7 Murray Rose Avenue, Sydney Olympic Park, NSW 2127, Australia.
Tel: +61(0)2 8037 6000 E-mail: sales@thalesgroup.com.au

[Thalesgroup.com](https://www.thalesgroup.com)



Specifications:

Specification	Nominal Value	Configurable to Operational Requirements?
Operational		
Maximum Operating Depth	Subject to platform limitations	✓
Survival Depth	500m	✓
Bend Radius	R400mm	
Operating Speed (deployed)	0.5 to 4 knots	
Survival Speed (deployed)	16 knots	
Performance		
Frequency range	Configurable to performance requirements*	✓
Channel Count	Configurable to performance requirements*	✓
Heading Sensor Accuracy	+/- 5o	
Recording Capacity	Configurable (> 7 days)	
Environmental		
Operating Temperature (water)	-5 to +40 °C	
Operating Temperature (air)	-10 to +48 °C	
Storage Temperature	-20 to +70 °C	
IP Rating (USV / Surface Vessel)	IP67	
Physical		
Array Diameter	Ø26mm	
Array Length	Configurable to performance requirements*	✓
Tow Cable Diameter	Ø7.2mm	✓
Tow Cable Length	130m	✓
Tow Cable Density	5500 kg/m3	✓
Electrical		
Input Voltage	24 VDC	18-35VDC
Power Consumption	Min 45 Watts	✓
Data Interface	2x RJ45	

*Data subject to export controls and appropriate commercial protection.