


Sentinel IDS Permanent Protection

Persistent underwater protection

Sentinel IDS Permanent Protection can be configured to protect your coastal facilities by deploying up to ten networked sonars permanently. Trust the most deployed intruder detection sonar. 



Sentinel IDS® Permanent Protection provides a user configured underwater exclusion zone with a detection range of up to 1,000 meters for divers or UUVs and 1,500 meters for crewed underwater vehicles.

Sentinel processes data in real-time using advanced onboard algorithms that automatically detect, classify, and track multiple subsea targets—such as divers or autonomous drones—while intelligently filtering out background noise and marine life to provide a clear, actionable security picture.

Key Features

- Simultaneous In-band Active and Passive Sonar (SInAPS®) Technology
- Wide range of deployment options including harbour-wall, pier and seabed mounts.
- Persistent underwater security
- Mesh network up to 10 sonars
- Open Application Programming Interface (API) for simple integration with your Command & Control (C2) system of choice

Protecting

- Permanent operating bases
- Naval facilities
- Commercial ports & harbours
- Critical National Infrastructure (CNI)
- Desalination plants & coastal power stations
- Wind farm & subsea cable infrastructure
- Offshore oil & gas facilities
- Bridges, dams, and other civil projects

Sentinel IDS Permanent Protection uses SInAPS® (Simultaneous In-band Active and Passive Sonar) a unique processing technology that allows the system to transmit active sonar pulses while listening passively at the same time. This dual-mode capability ensures that the sonar captures high-resolution imagery and acoustic signatures simultaneously, providing a "clearer" underwater picture than traditional systems.

The operator interacts with a specialized display that overlays real-time underwater tracking data onto a 2D digital chart of the protected area. The interface is designed to be intuitive, using clear visual icons and automated alerts to highlight potential threats without requiring the user to be a sonar expert.

Operators use the system to monitor a 360-degree exclusion zone, relying on the software to automatically detect and classify targets like divers or underwater drones. When a threat is identified, the system provides precise coordinates and trajectory data, allowing the operator to coordinate an immediate and effective security response.

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Specifications – Sentinel IDS Standard Stainless-Steel Sonar

Sonar range	Up to 1,500 m
Diver detection range	Up to 1,000 m
Operational frequency	70 kHz
Bandwidth	20 kHz
Source level (dB re 1 μ Pa @1m)	206 dB
Acoustic cover	360°
Target bearing accuracy	Down to 0.35°
Target position accuracy	Within 1 m at 150 m range

Physical configuration

Dimensions	432 x 330 mm (17 x 12")
Weight	45.5 kg
Power	Max 70 W



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