

Sentinel IDS Tactical Module

Underwater protection, where it is needed

The Sentinel IDS Tactical Module utilizes an ISO-certified 20ft shipping container and multiple intruder detection sonars to deploy a fully mobile, comprehensive underwater protection perimeter. →



Sentinel IDS® Tactical Module 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
- Uses the Mobile Command and Control Unit Tactical Operations Centre (MCCU-TOC)
- Can be deployed on a truck, trailer, or wheel set for ease of mobility
- Wireless mesh network up to 10 sonars
- Integrated power, data distribution and AC
- Generator draw bridge

Protecting

- Expeditionary & temporary operating bases
- Sporting, political and public events
- Naval facilities
- Commercial ports & harbours
- Critical National Infrastructure (CNI)
- Desalination plants & coastal power stations
- Wind farm & subsea cable infrastructure
- Bridges, dams, and other civil projects

Sentinel IDS Tactical Module 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 Tactical Module	
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 µPa @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	
Transit dimensions and weight	2.44 m x 2.44 m x 6.09 m and 6,512 kg
Deployed dimensions	2.44 m x 6.40 m x 6.09 m
Power	A 3 phase Lewden PM63/768 63 Amp 5 pole pin and sleeve connector. The generator is a 23kVA diesel rated at 18.4 kW (230/400V 50 Hz) and has a 75 litre capacity fuel tank.



Forcys Limited
 Meridian House
 Blackbushe Business Park
 Yateley, Hampshire
 GU46 6GF
 United Kingdom
 T +44 1252 872288 E sales@forcys.com W forcys.com