

## Sentinel IDS Expeditionary Trailer

Underwater protection, where it is needed

The Sentinel IDS Expeditionary Trailer consists of a mobile command and control unit with an intruder detection sonar that can be towed to any coastal facility and be fully operational in under 20 minutes. →



**Sentinel IDS® Expeditionary Trailer** provides a 360-degree underwater exclusion zone with a detection radius 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
- 20-Minute deployment using the Mobile Command and Control Unit for Expeditionary Deployment (MCCU-ED)
- 80-Hour of autonomous power
- Wireless mesh network up to 10 sonars
- Field-proven military chassis
- Telescopic 10m communications mast

### 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 Expeditionary Trailer** 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.

# Sentinel IDS Expeditionary Trailer

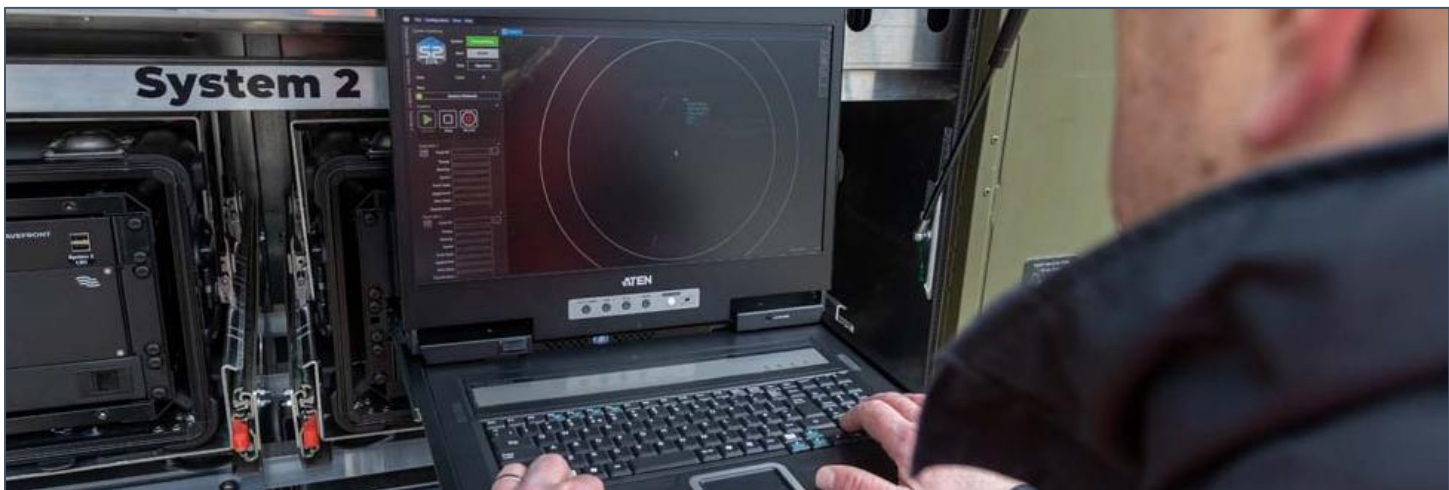


## Specifications – Sentinel IDS Expeditionary Trailer

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

Dimensions	1,959 mm wide x 2,237 mm high x 3,368 long (tow to back)
Approximate Weight	1,850 kg
Power	Single phase 230VAC 32A Commando Socket. Generator has nominal output 4 kW and has a 65 litre diesel 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