SprintNAV 500

SPRINT-Nav is the world's highest-performing all-in-one hybrid navigator for subsea vehicles and surveys, available in 600 kHz or 400 kHz for higher-altitude tracking. It combines inertial sensors, a Syrinx DVL, and a high-accuracy pressure sensor in a compact, pre-calibrated unit requiring no additional setup.

Its dual AHRS & INS algorithm enables automatic integrity checks, instant INS startup with North alignment, and simultaneous use for ROV piloting and survey operations. Tightly integrated beam-level DVL aiding ensures superior navigation in challenging environments, allowing for unconventional mounting.

Each DVL transducer has a full depth-rated water block for protection, and the system remains functional even if a transducer is damaged. A single connection simplifies interfacing, with optional independent sensor access. Internal battery backup supports continuous navigation, data storage, and post-mission diagnostics.

Specifications

Product	SPRINT-Nav 500
Country of origin	UK
Manufacturer	Sonardyne International Ltd

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Key features

- World's highest performing hybrid navigator
- All-in-one turn-key solution
- Dual concurrent AHRS, INS and DVL output capability for multi-use
- Instantaneous INS initialisation from AHRS with no alignment procedure required
- Dual AHRS & INS algorithms enabling internal health check of orientation.

- Proven long life and high MTBF inertial sensors from trusted longterm US supplier
- Remote diagnostics and performance verification
- Fully water blocked DVL endcap protecting internal electronics
- Full ocean depth aiding from USBL
- Two DVL Frequencies available: 600 kHz or 400 kHzHA
- Export is not ITAR controlled

Specifications

Size	240 mm x 395 mm (4000 m version) 240 mm x 405 mm (6000 m version)
Material	Titanium
Power	DVL-only power consumption: 20–50 V DC, 15 W nominal, 35 W maximum DVL + INS power consumption: 20–50 V DC, 25 W nominal, 35 W maximum
Internal battery backup	Li-ion, 5 minutes
Network	1x Ethernet port
Ports	4x RS232 or RS485 serial ports 4 triggers
Data Storage	8 GB internal memory
Weight	4000 m version: 23.9 kg in air 6000 m version: 28.1 kg in air
Depth rating	4000 m / 6000 m
Operating temperature	-5 to 50°C
Storage temperature	-25 to 55°C

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