

# Datasheet

## SPRINT-Nav



**SPRINT-Nav is the world's highest performing all-in-one hybrid navigator for all subsea vehicles and survey operations.**

SPRINT-Nav is a turn-key solution combining carefully selected inertial sensors, a Syrinx Doppler Velocity Log (DVL + ADCP) and a high accuracy pressure sensor into a single housing.

The result is not only the highest performing hybrid navigator but also one of the smallest navigation instruments on the market.

All onboard sensors are optimally integrated to provide seamless operation and unprecedented levels of performance compared with standalone instruments from different vendors.

The unit comes pre-calibrated and requires no additional calibration to achieve unprecedented performance with minimal operational complexity.

Each DVL transducer is fitted with a full depth-rated water block to ensure protection of the internal components. Combined with beam level aiding the SPRINT-Nav will continue to function even if one of

the DVL transducers has been damaged.

SPRINT-Nav can be interfaced using a single connection and/or the internal sensors can be interfaced separately depending on requirements.

Internal battery backup provides continuous on-board navigation and data storage supporting post-mission diagnostics and post-processing, even throughout brownout periods.

It offers an easy-to-use Web UI, which provides an intuitive dashboard viewer as well as configuration and detailed status pages for integration and troubleshooting. A clearly defined API allows for deep integration into vehicle control systems and remote operation of the system.

Export of SPRINT-Nav is simple in comparison to other separate DVL and INS units. For example, shipping from outside the USA does not require a re-export licence.

### Typical applications

- Any subsea vehicle including AUV and ROV
- Ideally suited for autonomous and resident vehicles
- Survey and construction

### Key features

- World's highest performing hybrid navigator
- All-in-one turn-key solution
- Concurrent INS, DVL and ADCP output capability for multi-use
- Alignment in <5 minutes with DVL aiding
- Web user interface
- Proven long life and high MTBF inertial sensors from trusted long-term 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: 625 kHz or 375 kHz high altitude (HA)
- Export is not ITAR controlled

