# Sonardyne Adds Flagship Navigator Model to SPRINT-Nav Mini Family


Energy, defence and science marine technology company Sonardyne has introduced a range-topping model of its hybrid, underwater and surface vehicle navigation platform, SPRINT-Nav Mini.

The new Navigator version extends the capability of the Guidance model introduced last year – by calculating and providing the position of a remote, autonomous or piloted underwater vehicle, or uncrewed surface vessel, in addition to its velocity, depth and attitude.

The compact SPRINT-Nav Mini is engineered to provide accurate, precise and robust guidance, and also survey and inspection capabilities, for vehicle platforms that would normally not be able to host high-end navigation systems. These include observation-class ROVs, low-logistic AUVs, manned submersibles, swimmer delivery vehicles and USVs operating in shallow waters.

With technology transferred from Sonardyne's popular SPRINT-Nav product line, the Mini family combines an INS, AHRS, pressure sensor and 500kHz DVL in a single subsea housing that is just 215mm high, 149mm in diameter and as little as 0.7kg in water; smaller, lighter and lower power than any other competing technology in the same class, and lower in cost than the individual vehicle sensors it replaces.

## Surface Structures and GNSS Denied Environments

SPRINT-Nav Mini continues to work even in challenging environments, such as around surface structures and GNSS denied environments, providing a continuous stream of latitude and longitude, orientation, velocity, depth and altitude at up to 200 updates per second to a vehicle's primary control system.

The platform is available in 300m and 4,000m depth options, with a class-leading maximum DVL altitude of up to 200m, while all SPRINT-Navs are supplied pre-calibrated from the factory. Existing owners of SPRINT-Nav Minis can upgrade their Guidance units to the new Navigator version, remotely in the field.

Business development manager, marine robotics at Sonardyne, Aidan Thorn, said: "It's an incredibly exciting time for developers and operators of small ROVs, AUVs and USVs, with transformational technologies like our SPRINT-Nav Mini Navigator being a true enabler for safer, more efficient and cleaner operations across the maritime space." He added: "The technology platform is low risk and field proven. This new flagship model will enable vehicle manufacturers and operators to enjoy all the benefits of Doppler inertial navigation from a single instrument. What I like is the simplicity; one unit that's simple to integrate and easy to operate, leaving more space and power for other data collection payloads. And that ultimately means a more capable vehicle for the user."