Sonardyne SPRINT-Nav for Resident ROVs

Innova AS has selected acoustic and inertial navigation technology from Sonardyne International Ltd., for two new in-field resident ROVs (Remotely Operated Vehicles) being built. Each ROV will be installed with a co-housed Sonardyne SPRINT Inertial Navigation System (INS) and Syrinx Doppler Velocity Log (DVLs) to provide tightly coupled navigation data that will support a wide variety of survey and inspection missions in water depths up to 4,000 metres.

The contract was announced on the opening day of the Seabed Mapping and Inspection conference taking place in Geilo, Norway from 8-10 February 2017. The two ROVs are being built by IKM Technology, this time for delivery to IKM Subsea, who has contracted Innova to supply various on-board sensors, including the navigation system, as part of the vehicle's development programme.

The all-in-one design of SPRINT-Nav makes installation on AUVs and ROVs straightforward, saves payload space and importantly, improves subsea navigation integrity. The design also features a high accuracy pressure sensor which can be removed in the field for re-calibration and still allow the SPRINT-Nav unit to be deployed.

Dual Data Output

Sonardyne's SPRINT makes optimal use of acoustic aiding from data sources including USBL, LBL and DVL and pressure sensors to improve the accuracy, precision and reliability of subsea vehicle positioning. Innova's client will be using Sonardyne's third generation SPRINT which is smaller than previous models and features dual data outputs to support Survey and ROV teams working concurrently.

Syrinx DVL provides tight beam-level aiding to SPRINT, allowing for positioning performance, even if one or two DVL beams are unavailable. It offers an altitude of up to 175 metres navigation capability with the high precision and accuracy of a 1200kHz DVL- all whilst navigating over undulating and challenging terrain of any type.

https://www.hydro-international.com/content/news/sonardyne-sprint-nav-for-resident-rovs