

Horizon Geosciences Largest Sonardyne GyroUSBL User



UAE-based Horizon Geosciences has commissioned an additional two Sonardyne GyroUSBL acoustic positioning systems to complement the systems they currently work with. The equipment will be used to support subsea construction projects across the Middle East and establishes Horizon as the largest single user of GyroUSBL in the region.

Horizon has adopted [GyroUSBL](#) for its marine operations as it introduces new standards of efficiency and underwater positioning performance. Unlike conventional USBL (Ultra-Short BaseLine) systems, Sonardyne's GyroUSBL can be commissioned without the need for a time-consuming calibration procedure to determine the alignment of the ship's motion sensors to the acoustic transceiver prior to use. Its installation and setup features make it particularly suited for short-term use on vessels of opportunity.

Integration with 6G Transceivers

The GyroUSBL's success comes from the integration of Sonardyne's sixth generation acoustic transceiver technology and inertial navigation sensor, Lodestar, in the same mechanical assembly. This combination removes many sources of USBL error including lever arm offsets, pole bending and ship flexing. It has also been proven to exceed accuracy and precision expectations, even when deployed on a temporary pole arrangement over the side of a vessel.

Lance Hanson, survey projects director at Horizon Geosciences commented they provide precise positioning for numerous activities offshore and often have to mobilise personnel and positioning equipment at short notice. GyroUSBL fits in with the unpredictable nature of the operations without compromising standards.