

# ROV Support Vessel Upgrades to Sonardyne 6G to Meet Brazil's New Contracting Specifications



Sixth-generation (6G) underwater positioning technology from Sonardyne has been chosen by vessel owner and operator Companhia Brasileira de Offshore (CBO) to meet Brazil's stringent new contracting specifications for subsea positioning. The multi-functional Compatt 6 transponders and Ranger 2 Ultra-Short BaseLine (USBL) HPT transceivers that make up the order will be utilised alongside existing Sonardyne technology on board the ROV support vessel 'CBO Isabella'. This will support a wide variety of subsea operations, including structure installation, pipeline metrology and ROV tracking.

On long-term contract to Petrobras since 2010, the *CBO Isabella* opted to have available two independent acoustic positioning systems so that operations can continue in the event of a single system failure. For the past few years, this requirement has been met through a combination of Sonardyne's Fusion LBL, Optimised Ranger 2 USBL and SPRINT INS technologies; providing the vessel with the flexibility to meet virtually any project requirement in any water depth, including Sparse LBL, full LBL and acoustically aided inertial navigation for the vessel's work-class ROV.

## Simultaneous vessel operations

Replacing the *CBO Isabella*'s previous generation through-hull transceivers with fully digital HPT transceivers completes her upgrade to 6G, and means the vessel can exploit the full benefits of Sonardyne's 6G technology. This is proven to offer stable and precise positioning for DP, reliable structure and vehicle tracking in any water depth and support for simultaneous vessel operations using shared seabed transponder arrays already deployed in the field.

The work equip the vessel's inventory of [Compatt 6 LBL transponders](#), with high specification DigiQuartz pressure sensors, was carried out at Sonardyne's service, support and training centre in Macaé, Brazil.

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