

iBUOY®

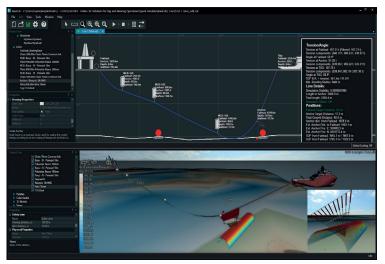
Transponder Based Ruggedised Anchor Positioning

K Z

 $iBUOY^{\circ}$ is a patent pending iSURVEY design used for anchor position tracking.

The iBUOY® anchor tracking system provides reliable online information of the anchor position during deployment and after the anchor is landed on the seabed. In addition, an indication of the drag length can be calculated.

The technology is fully integrated with the standard rig iNAV® and AHV iSAFE® positioning system used during regular rig move operations.



Anchor / iBUOY® online catenary calculation

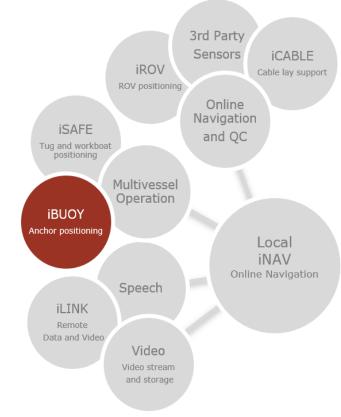
The design consists of a transponder, encapsulated in a floating device, that provides protection for the transponder against rough handling during the deployment and recovery of the anchors.

During the deployment of an anchor, the iBUOY $^\circ$ should be attached to the delta plate using a fibre rope, shortened with a weak link. If the weak link breaks due to external forces, the full length of the rope is released and the iBUOY $^\circ$ will float above the delta plate.

iBUOY® can be used with all standard USBL systems and is easily interfaced to the iSAFE® system onboard the AHV.

The iBUOY® position and depth are easily transmitted via radio link to the iNAV® system onboard the rig. The iNAV® system then provides graphical (as well as numerical) online information of the location of the iBUOY® and the anchor to all relevant parties involved in the operation.

All iBUOY° services can be combined and modfied to meet client requirements.



Extensions to iBUOY®

Remote Operations

- iCONTROL® Secure remote vessel access
- iROCC Remote Operation Control Centre

Rig & Mooring

- Anchor handling and Tug Management system
- Online and offline catenary calculations

Miscellaneous

- Additional client helmsman's displays
- iROV® ROV interface and monitoring
- iLINKTM Remote data and video transfer
- Electronic charts
- 3D online suite

Documentation

- Survey procedure
- Survey data processing and reporting
- Geodetic consultancy

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