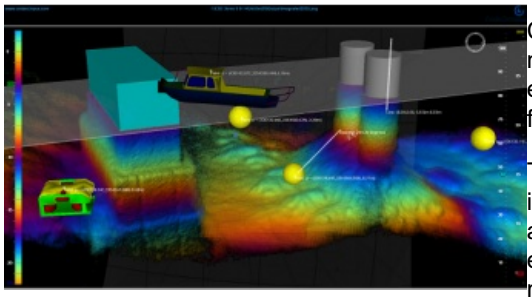
Underwater Survey Explorer Enhancements



Coda Octopus, UK, has upgraded the Models+ software package which forms an optional module within its Underwater Survey Explorer platform. The capabilities of this version enable real-time live sonar data to be supplemented by static and dynamic models to allow full visualisation and management of the user's subsea â€˜3D workspaceâ€™.

The workspace can be viewed from different perspectives, can be interactively measured in three dimensions and have dynamic object data recorded along with the sonar data. It also supports up to 20 independent moving models (up from the previous limit of 3), and enables Underwater Survey Explorer to generate a complete 3D environment, capturing motion and measurement between the Echoscope real-time 3D data, and static and dynamic objects in the real-world scene.

This Module allows XYZ coordinates to be input for each motion model for applications such as diver tracking or multiple beacon subsea positioning tasks. For complex scene tasks such as tracking ROV manipulator arm motion with tooling or large subsea asset placement, this Module supports full motion matrix (6 degrees of freedom) dynamic input.

The new version of Models+ software will bring enhanced efficiency and operability to subsea operations through scene awareness and the ability to make precise measurements between any objects in the scene; live context awareness of complex moving scenes and objects and enhanced 3D subsea workspace management, aiding safety, improving operational control, quality control and traceability.

All Models+ Motion Controller data is recorded with the ability to replay and re-render the scene for many offline benefits including quality control, documentary evidence and process improvement purposes.