

Subsea Lidar Laser Scanning System Using Terrestrial Methodology

Teledyne-CDL and 3D at Depth present during Oceanology International 2014, to be held from 11 to 13 March 2014 in London, UK, their subsea patented technology which uses subsea Lidar (Laser Radar) scanning techniques for the installation/field development of inspection environments. A 532 nanometer laser line scanner is used at depths of 3,000m to collect ranging and imaging data at resolutions that are not commonly known or seen in harsh subsea environments.

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The track record of the system and its data sets are focused on increasing the scale of the data to 40,000 points per second with proven ranges of 45 metres. The subsea point cloud data is treated in processing the same way as the surface scanning environment – by taking known points of registration between scan locations and producing 3D wide area point cloud models with millimetre range and resolution. Technip USA has approved data sets and operational time line examples from one of its projects in the Gulf of Mexico at depth of 2700m from one of its 2014 projects. Learn more about Teledyne CDL's Subsea Lidar laser at Stand E400.

<https://www.hydro-international.com/content/article/subsea-lidar-laser-scanning-system-using-terrestrial-methodology>
