



Driver Updates in HYSWEEP®: Dynascan and Simrad ME70

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DYNASCAN

Last month we spent some time with the good folks from iLinks Geosolutions testing the Dynascan mobile LIDAR system integration in HYSWEEP®. The Dynascan is available with integrated GPS and MRU for an all-in-one solution or as a standalone laser for integrating into existing survey vessel configurations. (The manufacturer of the Dynascan, formerly called MDL, is now Renishaw.)



HYSWEEP® has had a driver for the Dynascan for a while, but the latest updates squash some bugs, improve timing, support the full resolution capabilities, and use head mounting defaults as expected in the standard configuration of the M250 casing. The Dynascan is currently the only supported laser device that offers simultaneous scanning of both port and starboard.

During our tests we scanned the Goodspeed Opera House, a notable building not far from the HYPACK office in East Haddam, CT.

SIMRAD ME70

The Simrad ME70 is a scientific multibeam echosounder that is designed for water column visualization and data collection. Working with the NOAA Ship *Henry B. Bigelow*, we added a multibeam driver in HYSWEEP® for generating bathymetry from the water column data during acquisition using routines developed for the purpose by Dr. Tom Weber of the UNH Center for Coastal and Ocean Mapping.

This driver is particularly useful for ME70 sonars that are missing the bathymetric option, enabling coverage and bathymetry information to be displayed real-time as well as logged and processed in HYPACK®. The driver communicates with the Simrad software which is still used to control the sonar. Only the results of the HYPACK® beamforming are logged in HYPACK®. Full water-column logging is not supported at this time. The beamforming algorithm offers single- and multi-detect modes.