

# Payload Upgrade for Bibby Tethra



In addition to performing planned five-year vessel maintenance, Bibby HydroMap has also upgraded a number of key systems on the 27.5m DP1 catamaran, *Bibby Tethra*. The most notable is the installation of a dual-head Kongsberg EM2040 multibeam echosounder, providing superior sounding density along track at a reasonable vessel speed. The single transmitted, dual receiver system allows surveying of up to 10 times water depth, thus matching the capability of the dual head Teledyne Reson 7125 on *Bibby Athena*.

After being announced as the first buyers of Sonardyne's Mini-Ranger 2 USBL in April 2015, the high performance of the unit has led to the upgrade of Bibby Tethra's Sonardyne SCOUT USBL accordingly. The Mini-Ranger 2 utilises Sonardyne 6G and Wideband 2 digital signal technology to deliver a maximum 0.2% slant range accuracy, with the ability

to simultaneously track up to 10 subsea targets at very fast update rates, again mirroring the capabilities of Bibby Athena.

The iXBlue [OCTANS 3000 FOG](#) has been fitted within the 2040 mounting arrangement and is being upgraded to a ROVINS INS, providing a heading accuracy of 0.05° secant latitude, a roll and pitch accuracy of 0.01° and a heave accuracy of 2.5cm/2.5%.

In addition to hardware upgrades, the survey interfacing has also undergone a full upgrade to bring it in line with *Bibby Athena*.

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<https://www.hydro-international.com/content/news/payload-upgrade-for-bibby-tethra>

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