

Modularity and Data Quality for Teledyne RESONâ€™™s T-series



Teledyne RESON has introduced four new multibeam sonar systems: the Integrated Dual Head SeaBat T20-R & T50-R and the modular SeaBat T20-R & T50-R Multibeam Sonar. These new multibeam sonar are all built on the SeaBat T-series platform which delivers data quality, enhanced sonar capabilities and a selection of sonar processors including the new rack mount processor, all of which allow the user to configure the solution according to their needs.

The new Rack-Mounted Sonar Processor (RSP) forms the basis of the SeaBat T20-R, SeaBat T50-R single head and the integrated dual head products. The RSP comes with an optional Inertial Navigation System (INS) for accurate sensor time tagging and motion stabilisation securing minimal interfacing. The INS is fully

integrated in the RSP which in total only occupies 2U in an industry standard 19" rack allowing you to save valuable rack space.

Modular Flexibility

The SeaBat T-Series is a modularised sonar concept with a distinct design which allows you to build a survey solution based on compact high-resolution sonar, scalable to match the needs from smaller survey platforms to larger vessels.

The family includes the SeaBat T20 and T50 sonar receivers, the Portable Sonar Processor (PSP) and the new Rack-Mounted Sonar Processor RSP. The modular design allows users to start out with a smaller SeaBat T20 and later upgrade their sonar by replacing the receiver array. Changing configurations between the super compact and lightweight 1° T20 configuration and the ultra-high resolution 0.5° T50 configuration is easy with the user-friendly SeaBat Updater software.

One Sonar Processor – one Integrated Dual Head

The Integrated Dual Head SeaBat T20-R (IDH) and T50-R (IDH) are complete multibeam sonar survey systems, with one rack-mounted sonar processor running one fully integrated dual head sonar system. Teledyne RESON now provides maximised swath coverage of 220-degrees and 1024 beams with advanced beamforming options. The built-in INS is pre-configured which together with the clean data makes the system easy to mobilise and easy to use, allowing users to provide survey deliverables faster compared with earlier products.

The first public showing of the new SeaBat T50-R took place at the Teledyne Marine stand at Ocean'16 in Monterey from 20-22 September 2016.