

Multibeam Echosounder for Medium to Deep Water



The RESON SeaBat 7160 multibeam echosounder has been developed for marine exploration, seafloor habitat mapping and hydrographic charting in medium to deep water (3 to 3,000m). Equipped with X-Range, it provides improved system immunity to external noise.

The system can operate in water depths of between 3 to 3,000 metres, offering up to 512 high-density equidistant beams with a selection of coverage modes including features such as variable and steerable swath, together with real-time pitch and roll stabilisation maximising useable swath and performance. The SeaBat 7160 also provides the collection of high-density water-column data all wrapped up in a processing unit.

The new system is a significant upgrade of the SeaBat 8160. The X-Range is a software and hardware feature that provides extended performance. The basis is a frequency modulated transmission combined with advanced signal processing techniques to extract the maximum performance from the system. As an additional feature, the SeaBat 7160 is a portable system which makes it a flexible choice.

<https://www.hydro-international.com/content/article/multibeam-echosounder-for-medium-to-deep-water>
