

Teledyne Reson SeaBat 7150F Full Ocean Depth Multi Beam Echo Sounder



General information

Featuring a true integrated modular dual frequency design, the SeaBat 7150 system provides the user the ultimate in resolution, performance and system expandability.

The system can be configured for either 12kHz and/ or 24kHz operation, providing a choice of both ultra high resolution in shallow water and extended range in deeper waters.

Unparalleled technological advancements have been made in the SeaBat 7150. Standard features include increased receive beams for greater sounding density, automatic mode operation, transmit and receive beam focusing, equidistant and equiangular beam spacing, pitch and roll stabilisation.

The SeaBat 7150 is controlled by a high performancesonar processor that manages data flow and signal processing using state-of-the-art FPGA architecture. The sonar processor provides a Windows ®-based GUI user interface, allowing system configuration, control, data output, storage and built-in-test environment (BITE) displays to assist the operator.



KEY FEATURES

Configuration	Flexible configuration allows installation on a wide range of vessels.
Efficiency	Roll and pitch stabilisation maximise efficiency in deep water.
Coverage	Narrow beams and wide coverage provide excellent combination of coverage and resolution.
Productivity	Equi-distant footprints increase productivity.

SYSTEM SPECIFICATION

Dual Frequency	12 & 24kHz, 2" x 2" beams at 12kHz, 1" x 1" beams at 24kHz
Number of beams	Up to 880 receiver beams across swath (mode dependent)
Beam spacing	Equi-distant and equi-angle
Swath coverage	150°
Typical range	50m to 3000m at 24kHz, 50m to 6000m at 12kHz

Max range scale	9600m at 24kHz, 12800m at 12kHz
Transmit & receive beams	Various, dependent on the selected configuration
Update rate	Range dependent, 15Hz maximum
Motion stabilisation	Pitch & Roll
Pitch	±10°
Roll	±15°



NOTE: Package configuration subject to change and will be customised for individual projects

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