Teledyne RESON

SeaBat[®] 7160

Multibeam Echo Sounder System





The SeaBat 7160 provides an unbeatable combination of range, resolution, portability and powerful features.

The SeaBat 7160 transducer array is comprised of linear receive and transmit arrays mounted together on a support base. The T-shaped array geometry provides the basis for a compact, high-resolution sonar which is easily installed for portable or hull mounts - a first for a high-resolution system in this frequency range. The system features a

pitch-stabilized transmitter and an active roll compensated receiver.

Performance enhancements over the SeaBat 8160 include the addition of 512 high density equi-distant beams, variable swath coverage, beam uncertainty measurement, water column data and many other efficiency enhancing features.

FEATURES

FREQUENCY 44kHz (nominal)

SWATH Swath coverage greater than 4 x water depth

DEPTH Operational depths 10m to 3000m BEAMS 512 Equi-Distant 150 Equi-Angle

FLEXIBLE INSTALLATION Hull-mount or portable FEATURES

Water column data Variable and steerable swath Pitch & Roll stabilization Tracker Autopilot Adaptive & Manual Gates Integrated PDS2000 (optional)



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SEABAT 7160 SYSTEM SPECIFICATIONS

Frequency	44kHz (nominal)
Range resolution	12cm
Swath coverage	Greater than 4x water depth
Typical depth	3m to 3000m
Max depth	3000m
Number of beams	512 Equi-Distant / 150 Equi-Angle
Along-track beamwidth	1.5°
Across-track beamwidth	2.0° at nadir (nominal)
Pitch stabilization	±10°
Max update rate	50 Hz
Transducer denth rating	60m
	oom
System supply	115V/230V 50/60 Hz,500W
System control	115V/230V 50/60 Hz,500W Trackball or from Ethernet
System supply System control Data output	115V/230V 50/60 Hz,500W Trackball or from Ethernet 1GB Ethernet
System supply System control Data output Data uplink	115V/230V 50/60 Hz,500W Trackball or from Ethernet 1GB Ethernet High-speed digital coax
System supply System control Data output Data uplink Temperature: operating, storage	115V/230V 50/60 Hz,500W Trackball or from Ethernet 1GB Ethernet High-speed digital coax Operating: -5° to +40°C, storage: -30° to +55°C
System supply System control Data output Data uplink Temperature: operating, storage Transducer array dimension	115V/230V 50/60 Hz,500W Trackball or from Ethernet 1GB Ethernet High-speed digital coax Operating: -5° to +40°C, storage: -30° to +55°C 1477mm x 1100mm x 100mm
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WHY CHOOSE A SEABAT 7160 SYSTEM?

- High-resolution medium depth sonar which is easily installed for portable or hull mounts
- High performance excellent swath
- High density beams
- Water column data
- Ideal for continental shelf mapping
- Upgrade from SeaBat 8160



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