Seafloor™

SeaRAY™ Multibeam Echosounder

The SeaRAY™ is a compact, energy-efficient multibeam sonar for easy USV integration. Its hydrodynamic design extends battery life for surveys in ponds, lakes, rivers, and dredge pits. Data acquisition software included.

Specifications

FREQUENCY RANGE
400-550 (kHz)

SWATH COVERAGE
Up to 130°

NUMBER OF RX BEAMS
512

ALONG -TRACK BEAM WIDTH
1.45° - 550 (kHz)

ACROSS - TRACK BEAM WIDTH
1°±0.1

BEAM DISTRIBUTION
Equidistant and equiangular beam distribution

ROLL STABILIZATION
Included

PRESSURE RATING
100m

GNSS / INS
INS Integrated into Sonar Transmit Head

PITCH / ROLL ACCURACY
0.03° Independent of Antenna Separation

HEADING ACCURACY
0.08° (RTK) with 2m Antenna Separation

TOPSIDE RATING
IP67 (Dust & Water Tight, Submersible up to 1m)

HEAVE ACCURACY
2cm or 2% (TRUEHEAVE™). 5cm or 5% (Real Time)

POSITION
HOR: ±(8mm +1ppm X Distance from RTK Station)
VER: ±(15mm +1ppm X Distance from RTK Station)
(Assumes 1m GNSS Separation)

COMPATIBLE WITH
HYPACK, Qinsy, EIVA, Other Prominent Brands

PING RATE	OUTPUTS	POWER CONSUMPTION	WEIGHT	RANGE
50 Hz	Bathymetry, Sidescan	50W	3.5kg (Air), 1.2kg (Water)	200m

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