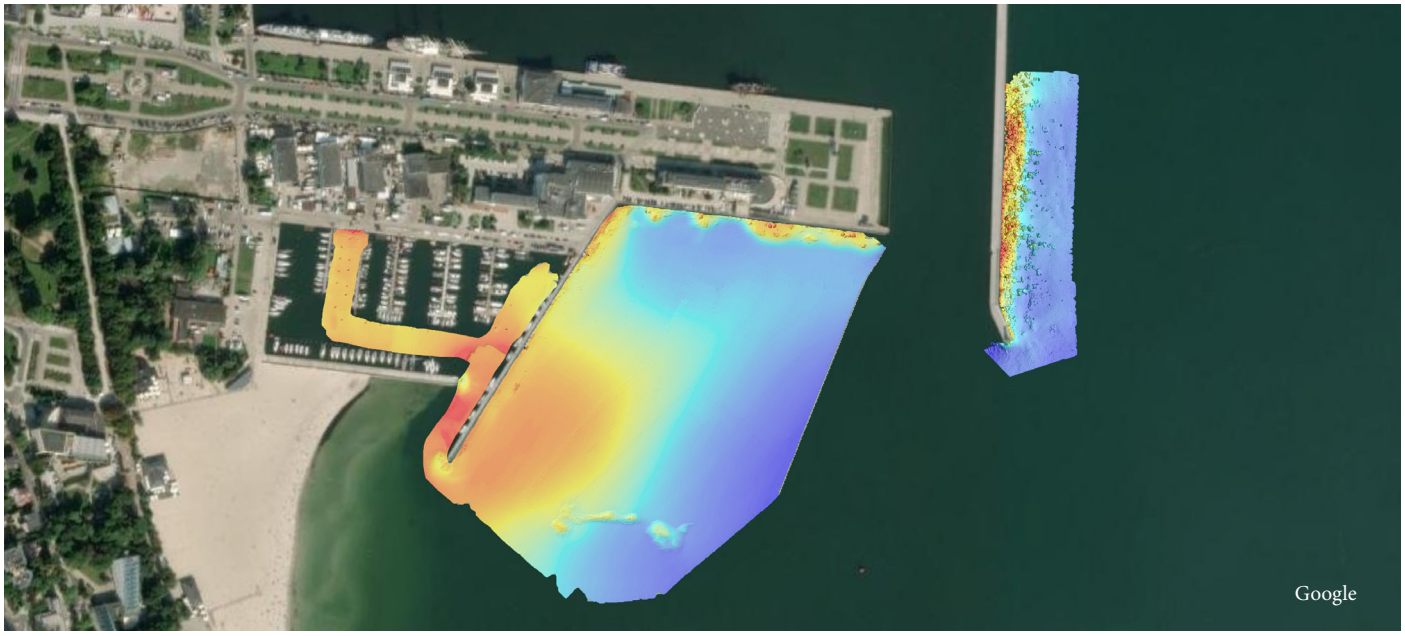
M9 Integrated Multibeam Sonar

Baywei
Sea possibilities

High-end, shallow water, GNSS/IMU integrated multibeam system



Specifications:

Swath coverage	Up to 140 degrees
Number of RX beams	512
TX beam width along-track	2° @400kHz (Option for 1°)
RX beam width	1° @400kz
Range	>200m
Range accuracy	<10mm
Beam distribution	Equi-Distant and equi-angular beam distribution
Roll stabilisation	Yes
Pressure rating	60m
GNSS/INS	INS in Sonar
Position	HOR: ±(8mm +1ppm X Distance from RTK Station) VER: ±(15mm +1ppm X Distance from RTK Station) (Assumes 1m GNSS Separation)
Heading Accuracy	0.08° (RTK) with 2m Antenna Separation
Pitch/Roll Accuracy	0.03° Independent of Antenna Separation
Heave Accuracy	2cm or 2% (TRUEHEAVE™). 5cm or 5% (Real Time)
Ping Rate	50 Hz
Outputs	Bathymetry, Side Scan
Compatible with	Qinsy, Hypack, BeamworX, SonarWiz a.o
Weight w. bracket	Air: 4.8 kg, Water: 2.7 kg

Features

- ✓ M9 is the top offer from BayweiSonar
- ✓ Extremely simple to use and to install on Uncrewed Maritime Vehicles
- ✓ Tightly coupled GNSS/INS makes it easy to integrate even on ultra-small vehicles and very quick to mobilize
- ✓ Range resolution <10mm
- ✓ Narrow transmit option
- ✓ The major components, including sonar electronics, GNSS, IMU, and SV probe, are sourced from industry-leading manufacturers.

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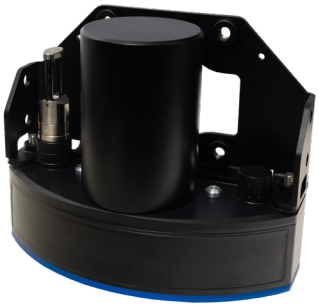

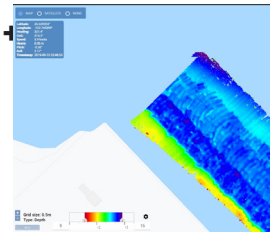

data acquisition included

Applications

- ✓ Small or Large Survey
- ✓ Boats
- ✓ Coastal Waters
- ✓ Harbors, Construction
- ✓ Ponds, Lakes, Rivers
- ✓ Survey Companies
- ✓ Dredging
- ✓ Autonomous Surface
- ✓ Vehicles (USV)
- ✓ Unmanned Surface
- ✓ Vehicles (ASV)
- ✓ Environmental Research
- ✓ University Research
- ✓ Archaeology