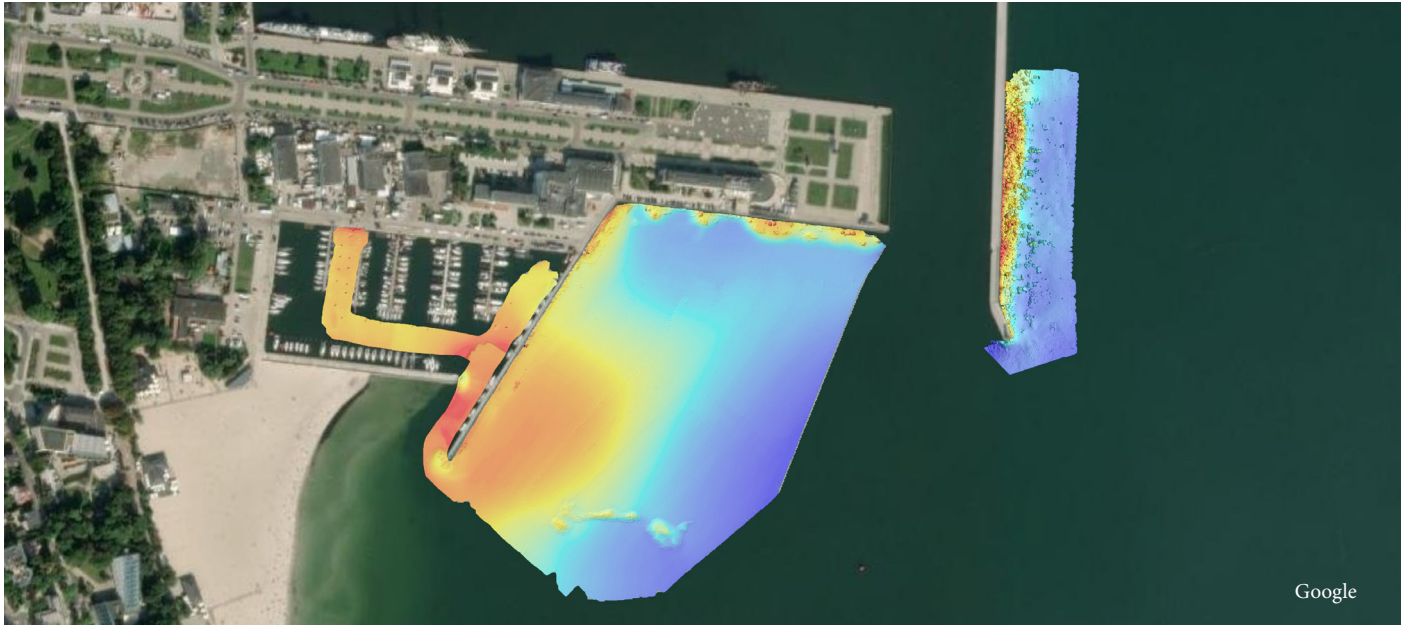


M9 Integrated Multibeam Sonar



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



Specifications:

Swath coverage	Up to 140°
Number of RX beams	512 (Option: Electronic Beam Tilt)
Frequency	400kHz (Frequency Agility 200kHz to 550kHz)
TX beam width along-track	1°
RX beam width	1°
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: $\pm(8\text{mm} + 1\text{ppm} \times \text{Distance from RTK Station})$ VER: $\pm(15\text{mm} + 1\text{ppm} \times \text{Distance from RTK Station})$ (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 (Options: Watercolumn & Snippets)
Compatible with	Qinsy, HYPACK, BeamworX, SonarWiz a.o
Weight w. bracket	5.8kg in air and 3.1kg in water

Features

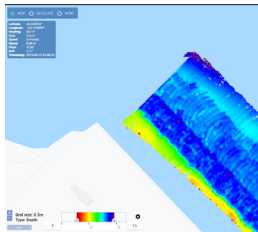
- ✓ M9 is the top offer from BayweiSonar
- ✓ Extremely simple to use and to install on Uncrewed Maritime Vehicles
- ✓ Tightly coupled GNSS/INS makes it easy to integrate even on ultra-small vehicles and very quick to mobilize
- ✓ Range resolution <10mm
- ✓ The major components, including sonar electronics,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

M9 Integrated Multibeam Sonar

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



+



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

