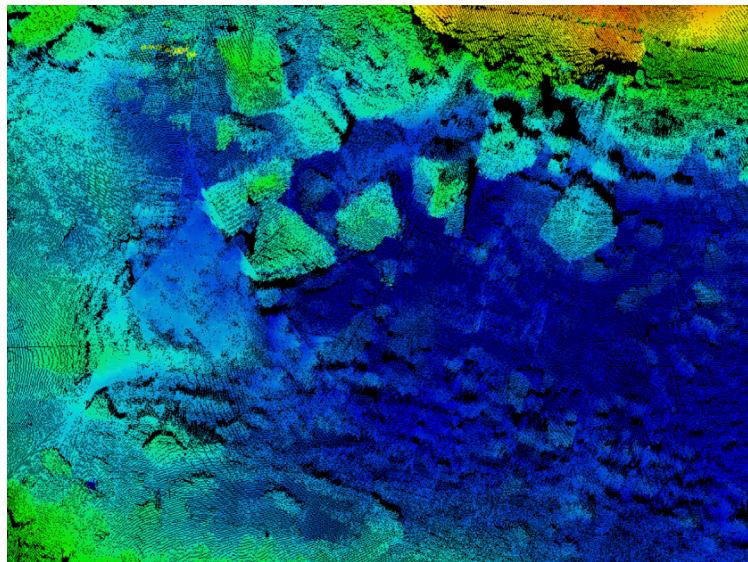


Underwater Point Cloud Generator for Geospatial Professionals



Specifications:

Swath coverage	Up to 150 degrees (130deg with roll stab)
Number of RX beams	512
TX beam width along-track	1.4°
RX beam width	1.7°
Range	>200m
Beam distribution	EA & ED beam distribution
Roll stabilisation	Yes
Pressure rating	50m
GNSS/INS	Integrated into the Sonar housing
Position	HOR: ±0.8cm VER: ±1.5cm (RTK*), ±2.5cm or 5% (Heave)
Heading Accuracy	0.08° (RTK)
Pitch/Roll Accuracy	0.03°
SV Profiler/SVP casts	Not required
Ping Rate	50 Hz
Outputs	Complete bathymetry XYZ 3D Point Cloud Side Scan imagery Bathymetry maps
Weight	Air: 1.7 kg, Water: 0.45 kg

Features

The Baywei M1 delivers live XYZ georeferenced data and bathymetric charts, eliminating the need for post-processing or cumbersome sound speed measurements.

The M1 revolutionizes rapid underwater structure and terrain assessment. This lightweight, app-controlled sonar streams real-time point cloud data through any web browser, even smartphone.

With a small footprint size and simple plug-in operation, you can begin mapping lake beds, riverbeds, or submerged structures.

The M1 removes the hassle of sound speed casting by using innovative acoustic technology for remote sound velocity profiling.

M1 offers footprint size:
25cm x 30cm @10m depth
1.2m x 1.5m @50m depth

No matter if you're navigating a yacht, managing underwater projects, or piloting a USV, the M1 streamlines underwater exploration with unmatched ease.

Data Acquisition and visualization Software included

Data can be visualized and analyzed in any major CAD or 3D software (e.g. AutoCAD, 3DPoit Cloud, CloudCompare, etc.)

*Assumes 1m GNSS Separation

M1 Multibeam Sonar

