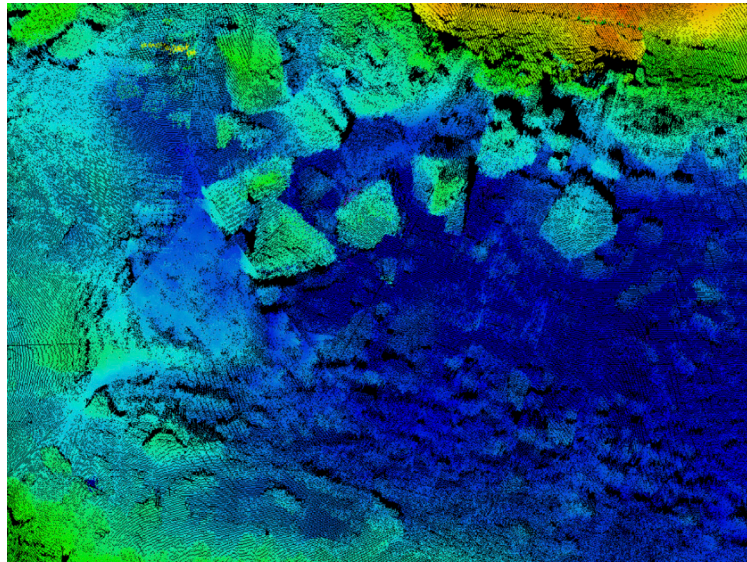


## Underwater Point Cloud Generator for Geospatial Professionals



### Specifications:

<b>Swath coverage</b>	Up to 150 degrees (130deg with roll stab)
<b>Number of RX beams</b>	512
<b>TX beam width along-track</b>	1.4°
<b>RX beam width</b>	1.7°
<b>Range</b>	>200m
<b>Beam distribution</b>	EA & ED beam distribution
<b>Roll stabilisation</b>	Yes
<b>Pressure rating</b>	60m
<b>GNSS/INS</b>	Integrated into the Sonar housing
<b>Position</b>	HOR: ±0.8cm VER: ±1.5cm (RTK*), ±2.5cm or 5% (Heave)
<b>Heading Accuracy</b>	0.08° (RTK)
<b>Pitch/Roll Accuracy</b>	0.03°
<b>SV Profiler/SVP casts</b>	Not required
<b>Ping Rate</b>	50 Hz
<b>Outputs</b>	Complete bathymetry XYZ 3D Point Cloud Side Scan imagery bathymetry maps
<b>Weight</b>	Air: 1.7 kg, Water: 0.45 kg

#### 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.)

### Features

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

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

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

\*Assumes 1m GNSS Separation

