Teledyne Odom Hydrographic

MB1

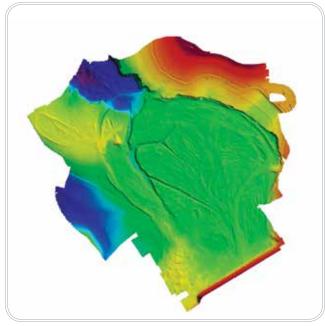
Multibeam Echo Sounder

The New Generation of Multibeam Echo Sounder

Introducing our new multibeam echo sounder: the **Teledyne Odom Hydrographic MB1**. Designed and manufactured entirely within the Teledyne Marine group to meet the growing needs of hydrographic professionals that are looking for a low-cost shallow-water multibeam echo sounder.

Using both amplitude and phase bottom detection, the MB1 is capable of sounding a swath of up to 120° in over 120m water depth. With 24 bit raw data and a dedicated projector, both raw water column and seabed data can be collected within the controller software. The new and improved **Real Time Appliance** (RTA) improves time synchronization on all of the sensors necessary for surveying down to 0.1ms. New options include a fully integrated GPS heading system built into the RTA and a TSS motion sensor built into the sonar head. Teledyne Impulse Titan® Series connectors are used for quick dependable data and power connection.





MB1 data.

PRODUCT FEATURES

- Phase and amplitude detection
- 120° swath width
- User-defined beam distribution and angles
- Sidescan and snippets
- 24-bit resolution water column backscatter data
- Uncertainty estimation

- Raw data logging for post processing, beam forming, bottom detection
- Titanium and acetal construction
- Optional integrated motion sensor and GPS heading system
- Field serviceable/upgradeable







TECHNICAL SPECIFICATIONS

Frequency (KHz)	User-selectable, 170-220
Range Resolution	3.6cm
Pulse Width	User-selectable, tied to range
A/D	24 bit
Maximum Ping Rate	60Hz
Number of Beams	User-selectable, 10-512
Swath Width	User-selectable, 10°-120°
Beam Spacing	User-selectable, 0.23°-12°
Maximum Sounding Depth (Nadir)	240m
Bottom Detection Method	Amplitude & Phase
Data Products	Bathymetry, water column backscatter, snippets, sidescan, real time uncertainty
Environment	Maximum Deployment Depth MB1 Sonar Operating Temperature MB1 Sonar Storage Temperature MB1 Sonar Storage Temperature RTA Operating Temperature RTA Storage Temperature RTA Storage Temperature CDry Weight Dry Weight Askg/9.5lbs transducer only; 5kg/11lbs with Digibar V attached Weight in Water 100m -5 to +35°C -20 to +55°C -20 to +65°C Dry Weight 4.3kg/9.5lbs transducer only; 11.3kg/24.9lbs with Digibar V attached
Power Requirement	12–30VDC 110-240VAC with included power supply
Power Consumption	34W
Software	Teledyne Odom's Windows based software included: IMAGE - Control, Data Display and Export
Dimensions	Head: 267mm (10.51in) L, 152mm (5.98in) W, 146mm (5.75in) H RTA: 286mm (11.25in) L, 305mm (12.00in) W, 133mm (5.25in) H



Above: Real Time Appliance (RTA). Right: MB1 Fairing.



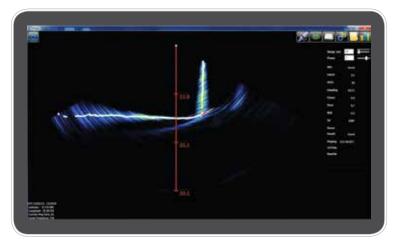


Image Software.



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