TECHNICAL SPECIFICATIONS

Frequency	High: 200kHz
	Low: 24kHz
Maximum Transmitting Power	400W@200kHz
	1200W@24kHz
Depth Range	0.15~300m/1.0~900 ft.@200kHz
	0.8~2000m/2.4~6000 ft.@24kHz
Accuracy	0.01m/0.1 ft. +/- 0.1% of depth @200kHz
	0.10m/0.30 ft. +/- 0.1% of depth @24kHz
Resolution	0.01m/0.10 ft @200kHz
	0.10m/0.30 ft @24kHz
Sound Velocity	1370~1700m/s
Ping Rate	Maximum 30Hz
Output Data Format	Standard NMEA 0183, DESO 25, ODOM, Knudsen, Bathy, Echotrac, Hi-Target
Screen	17inches；Resolution：1280 x 1024@60Hz
CPU	1.92GHz，Quad-core（windows 7）
RAM	2GB
Storage	128GB SSD
Interfaces	RS-232*3, USB*4, Power Port*1, Transducer Port*1, VGA*1
Input Power	10~30 VDC or 220 VAC
Consumption	80 watts
Operating Temperature	-20℃~70℃
Weight	9.5 kg(20lbs)
Dimensions	480mm(18.8 in)H×360mm(14.1 in)W×110mm(4.3 in)D
Material of Shell	High strength ASA
Certification	CE, EN 60945

*Description and specification are subject to change without any further notice.

AUTHORIZED DISTRIBUTION PARTNER

22M113

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Hi-Target

Surveying the World, Mapping the Future

HD-MAX NEW

Dual-Frequency Echo Sounder

HD-MAX
Hydrographic Solution

HD-MAX dual-frequency echo sounder is widely used in sediment measurement for dredging and other water depth measurement projects in shallow water, deep water, and high sandy water. The full-featured Hi-MAX Sounder hydrographic software integrates bathymetry, navigation, and post-processing. Equipped with a 17″large screen and industrial computer platform, HD-MAX offers a set of reliable solutions for hydrographic offices around the world with a robust dual-frequency transducer and a user-friendly survey pole.

HD-MAX + HiMAX Sounder

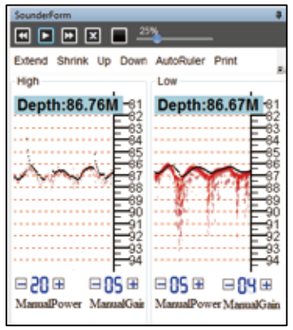
Transducer

The Combination of High and Low Frequency

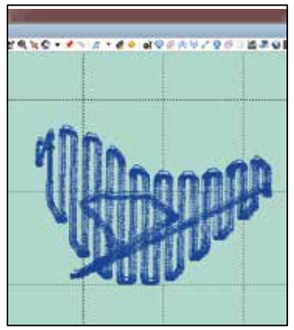
HD-MAX features the simultaneous operation of both high and low frequencies, making it a good performer in both shallow and deep water. High frequency brings good accuracy, accurately measuring the depth of shallow water. Low frequency has large emission energy and strong capacity of penetration, with no fear of complex deep water. Moreover, Hi-MAX Sounder software uses the different propagation characteristics of high and low frequencies to output the real-time difference of water depth value between the low and high frequencies, which is the thickness of the sediment under the water.

The Full-featured Hi-MAX Sounder Software

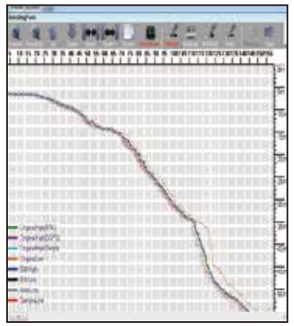
Powerful Hi-MAX Sounder hydrographic software integrates bathymetry, navigation and post-processing. Hi-MAX Sounder displays, processes and export dual frequency data. At the same time, Hi-MAX Sounder supports access to standard NMEA data from any receiver to provide accurate GNSS coordinates for your bathymetry data. For more surveying scenarios, Hi-MAX Sounder also supports third-party sensors of attitude, surge, rosette, sound speed, combined navigation, water level meter, etc.



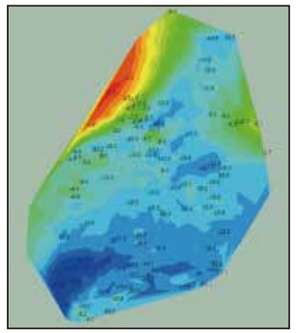
Surveying



Track



Process



Result Preview

User-defined Export

External Sensor

FEATURES

- Dual-frequency
- The Full-featured Hi-MAX Sounder Software
- Rugged Industrial Platform
- CE and EN 60945 Certification
- New Processing Circuit
- Frequency Span Available for Special Projects
- Multiple I/O Interfaces
- 17-inch Large Tempered Glass Screen
- Shortcut Buttons
- Window 7 Operating System
- 128 GB Internal Data Storage

APPLICATIONS

Tracking of the Seabed

Using the high energy of low-frequency sound waves and low attenuation in the water, HD-MAX is capable of bottom tracking of the ocean.

Turbid Water with High Sand Content

HD-MAX can be easily operated in water with a high sand content of 3~35kg/m³. Low-frequency sound waves allow HD-MAX to penetrate a large amount of sand in the river to obtain the underwater topography.

Sediment Measurement for Dredging

As a good tool for sediment measurement, the combination of high and low frequency can provide the thickness of sediment, which is important for guiding dredging projects for ports, harbors, and channels.

Measurement at High Speed

HD-MAX supports measurement at a high speed with the highest ping rate of 30Hz. Under the condition of the measurement vessel reaching the full speed of 10.6 knots and the depth of water is 10~40 m, the echoes received by HD-MAX are stable and there are no secondary echoes or spurious echoes.