

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.



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.

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°C~70°C
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