

 **SyQwest Incorporated**
HydroBox HD™
Hydrographic Echo Sounder

The HydroBox HD™ is a portable high-resolution, shallow water echo sounder. It is designed exclusively for inshore and coastal hydrographic marine surveys up to 1000 meters of water depth. Available in single frequency or simultaneous dual frequency models

Extreme ease of use, portability, and cost efficiency make this device a perfect choice for shallow water hydrography.

The sensor unit is extremely compact, interfaces directly to a standard laptop PC and comes complete with sensor unit and Windows® PC software.



NEW FEATURES!!!

- ◆ Ethernet Link to PC
- ◆ CW & FM Chirp
- ◆ High Definition Data Storage (16 bit , 96kHz, SEG-Y Format)
- ◆ UDP Interface to Survey Software
- ◆ Internal Memory Storage (32 GB SD Flash Card)

- ◆ Centimeter Resolution
- ◆ Heave Input Capable
- ◆ GPS Input, NMEA Compatible
- ◆ Hypack & HydroPro Compatible
- ◆ Data Storage & Playback
- ◆ Zoom Modes
- ◆ Single or Dual Frequency
- ◆ Low Power (12 watts)
- ◆ Sound Velocity



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SPECIFICATIONS

Units: Feet or Meters
Depth Ranges: 0-15, 30, 60, 120, 240, 450, 900, 1500, 2400, 3000 Ft.
 0-5, 10, 20, 40, 80, 150, 300, 500, 800, 1000 Meters.
 Auto-ranging Modes in all units.

Draft Offset: 0 to 30 feet (0 to 10 meters)
Manual Gates: Shallow & Deep, (rounded to one decimal place)
Shift Range: 1 foot increments in depths to 100 feet
 10 foot increments in depths greater than 100 feet

Zoom Range: 15, 30, 60, 120, 240 feet
 5, 10, 20, 40, 80 meters

Zoom Modes: Bottom Zoom, Bottom Lock, Marker Zoom, Center Lock, Zoom (Playback Only)

Display: Normal Data, Zoom Data, Selectable Color Palette
Sound Velocity: 4600 - 5250 ft/sec (1400 - 1600 mt/sec) 1 mt/sec int.

Depth Resolution: 0.01 feet, (in less than 120 ft)
 0.01 meters. (in less than 150 mts)

Depth Accuracy: 1cm @ 200khz; 5cm @ 50Khz; 7cm @ 33Khz
Navigation Input: NMEA 0183, GLL, GGA, RMC, VTG, VHW, HDT.
 Selectable Baud Rate, RS-232 .

Data Output: NMEA 0183; DPT, DBT, PMC; ODEC

HydroBox HD I/F: Ethernet via RJ-45

Printer Output: (Parallel Port) interface to TDU Series Thermal

Heave Input: TSS1 Format, 9600 Baud Rate

Shallow Water .31 mt or 1 ft; frequency dependant

Operation:
Data File Storage: External-ODEC Format (8 bit, 800 pixel), SEG-Y Format envelope (16 bit, 96kHz rate), Internal-32GB SD Flash

Transmit Rate: Up to 10 Hz, range mode dependent.

Data File Playback: Files played back and printed at Normal or Rapid Advance Speed, with Pause, Scroll, and Zoom

Frequency Output: 210 Khz (nominal), 33Khz, *50Khz (*optional)

Transmit Output Power: 600 Watts (nominal) matched to transducer
 (1000 Watts capable)

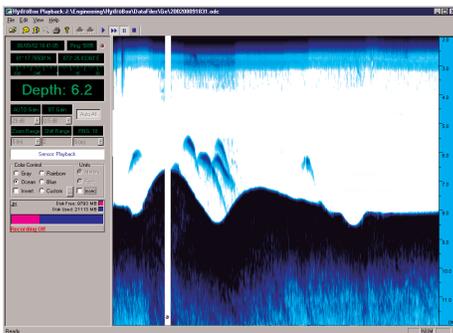
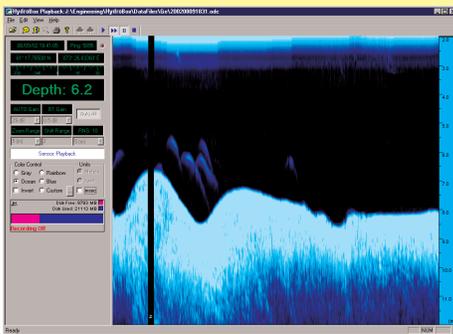
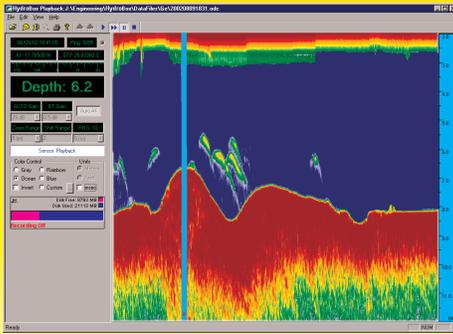
Input Power: 10-30 Volts DC, Nominal Power 12 watts, Reverse Polarity and Over Voltage Protected.

Dimensions: 25.4 cm (10") Length, 15.876 cm (6.25") Width, and 6.25 cm (2.5") Height.

Weight: 1.1 kg (2.3 lbs). (sensor unit only)

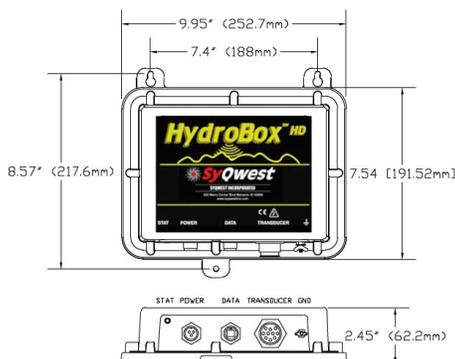
Eventing: Manual and Periodic Event Marks

Environmental: 25°C to +60°C Operating Temperature (-55°C to +90°C Storage) Water Resistant to EN60529 IP65 EMC meets EN60945 Emissions, CE Compliant



Options:

- 210Khz Transducer
- 50Khz Transducer
- 33Khz transducer
- 50/210Khz transducer
- 33/210Khz Transducer
- TDU-850 Thermal Printer
- TDU-1200 Thermal Printer
- SonarWiz
- Hypack
- HydroPro



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