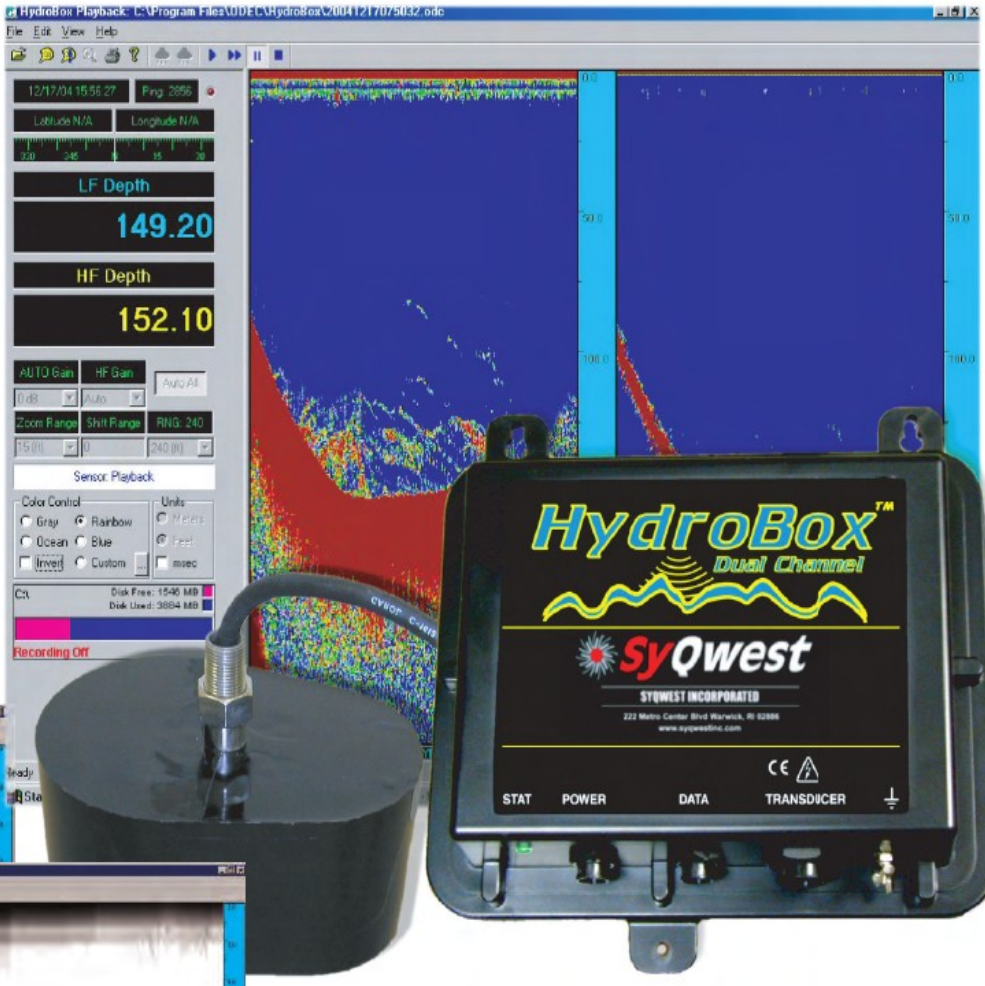
HydroBox™

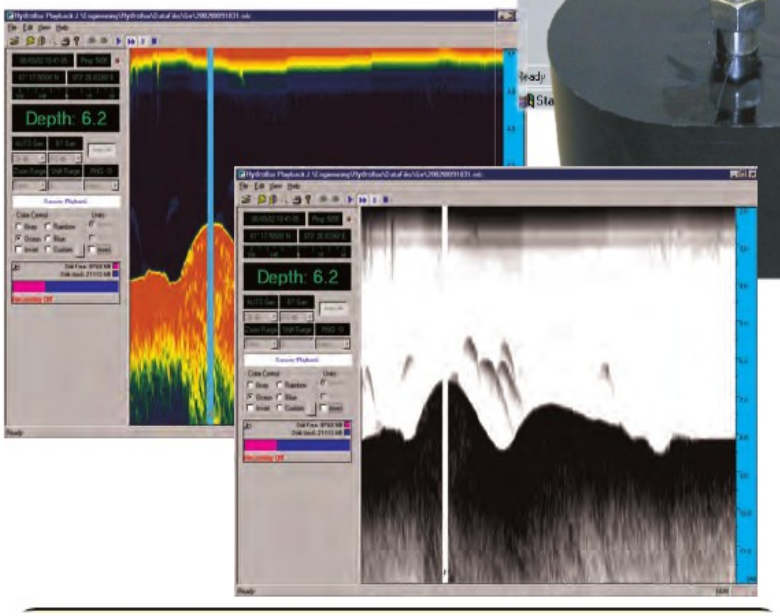
Hydrographic Echo Sounder

The HydroBox ™ is a portable high-resolution, shallow water echo sounder. It is designed exclusively for inshore and coastal hydrographic marine surveys up to 800 meters of water depth. Available in single frequency or interleaved dual frequency models

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.





- ◆ *Centimeter Resolution*
- ◆ *GPS Input, NMEA Compatible*
- ◆ *Hypack & HydroPro Compatible*
- ◆ *Data Storage & Playback*
- ◆ *Zoom Modes* ◆ *Event Marks*
- ◆ *Single or Dual Frequency*
- ◆ *Low Power (8 watts)*
- ◆ *Sound Velocity* ◆ *Draft Offset*

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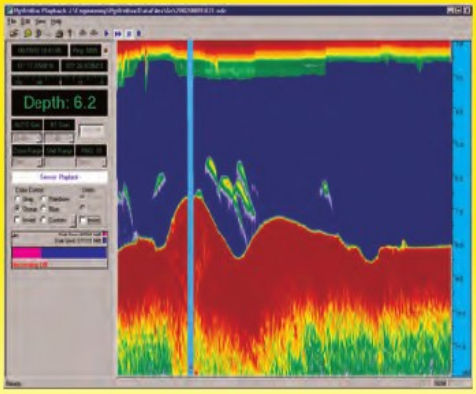
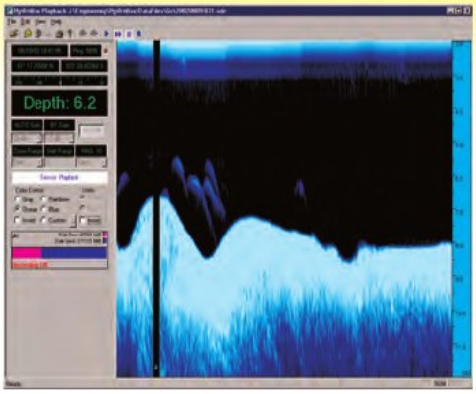
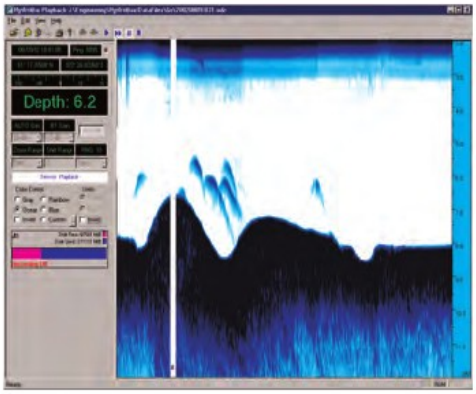
HydroBox™

SPECIFICATIONS

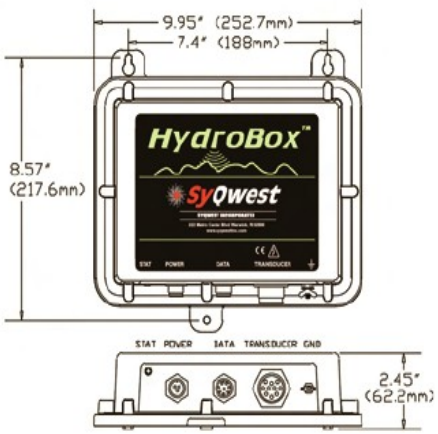






Options:

- 210Khz Transducer
- 50Khz Transducer
- 33Khz transducer
- 50/210Khz transducer
- 33/210Khz Transducer
- TDU-850 Thermal Printer
- TDU-1200 Thermal Printer
- SonarWeb Pro



Units:	Feet or Meters
Depth Ranges:	0-15, 30, 60, 120,240,450, 900,1500, 2400 Feet. 0-5, 10, 20, 40, 80, 150, 300, 500, 800 Meters. Auto-ranging Modes in all units.
Draft Offset:	0 to 30 feet (10 meters)
Manual Gates:	Shallow & Deep, (0.1 ft / 0.1mt resolution)
Shift Range:	1 foot (1meter) increments to bottom of selected range
Zoom Range:	15, 30, 60, 120, 240 feet 5, 10, 20, 40, 80 meters
Zoom Modes:	Bottom Zoom, Bottom Lock, Marker Zoom, Center Lock; GUI Zoom (Playback Only)
Display:	Normal Data, Zoom Data, Navigation, Depth, Command/Status Color Control for Data: 4 selections or Custom (User Input), Data Invert possible.
Sound Velocity:	4600 - 5250 ft/sec (1400 - 1600 mt/sec) 1 ft/sec (1 mt/sec) increment
Depth Resolution:	0.03 feet (0.01 meters)
Depth Accuracy:	Meets or exceeds all current IHO hydrographic requirements for single beam echo sounders 0.03ft (0.01 mt) +/- 0.1% of depth @ 200KHz 0.30ft (0.10 mt) +/- 0.1% of depth @ 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 I/F:	Serial data, 57.6Kbaud, RS-422.
Printer Output:	(Parallel Port) interface to Thermal Printers; screen dumps to any Windows printer
Shallow Water Operation:	.31 mt or 1 ft; frequency dependant
Transmit Rate:	Up to 10 Hz, range mode dependent.
Event Marks:	Manual, Periodic, External (user selectable)
Data File Storage: (Proprietary)	Saves Depth, Navigation, and Graphic Data in ODEC format . Normal Data and Zoom Data stored is Pixel Data and can be played back and printed.
Data File Playback:	Files played back and printed at Normal or Rapid Advance Speed, with Pause, Scroll, and GUI 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 8 watts, Reverse Polarity and Over Voltage Protected.
Dimensions:	25.4 cm (10") Length, 15.876 cm (6.25") Width,