The EchoBox™ is a portable high-resolution, precision echo sounder. It is designed exclusively for hydrographic marine surveys up to 5,000 meters of water depth. Available as a single frequency or dual frequency model.

Ease of use, portability, and cost efficiency make this device a perfect choice for hydrographic marine survey applications.

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
- Sound Velocity  ◆ Draft Offset

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**EchoBox™**

**SPECIFICATIONS**

**Units:** Feet or Meters

**Depth Ranges:**
- Feet: 30, 60, 120, 240, 480, 800, 1500, 2400, 3000, 6000, 15000
- Auto-ranging Modes in all units.

**Shift Range:** 0-450 Ft in 1 foot increments, 0-150 mts in 1 meter incr.

**Zoom Range:** 115, 30, 60, 120, 240, 480 Feet
- 5, 10, 20, 40, 80, 160 Meters

**Zoom Modes:** Bottom Zoom, Bottom Lock Zoom, Marker Zoom, Normal Data, Zoom Data, Navigation, Depth,

**Display:** Command/Status, Color Control for Data: 4 Selections or Custom (User Input), Data Color Invert possible

**Depth Resolution:** 0.1 Feet, 0.01 Meters

**Depth Accuracy:** Meets or exceeds all current IHO hydrographic requirements for single beam echo sounders
- 0-40m 2.5cm, 40-200m 5.0cm, >200m 10.0cm;
- or +/- .1% of depth corrected for sound velocity

**Speed of Sound:** User Selectable 1500 Meters/Second, 4800 Feet/Second;
- Adjustable in increments of 1 M/sec or 1 FT/sec

**Geographic Position:** NMEA 0183, GLL, GGA, RMC, VTG, VHW, HDT

**Printer Output:** Selectable Baud Rates (RS-232) 4800, 9600, 19200, 38400

**Shallow Water Operation:** < 1 Meter; bottom type dependent

**Transmit Rate:** Up to 20 Hz, depth and operator mode dependent

**Event Marks:** Periodic, External, and/or Manual
- (Periodic selectable in 1 minute intervals)

**Data File Output:** Stores Depth, Navigation, and Graphic Data in ODC format (Proprietary) and Standard SEG-Y Normal and Zoom Data stored is Pixel data and can be played back and/or printed.

**Data File Playback:** Files can be played back and/or printed at Normal or Fast-Forward speed, with Pause and Zoom and a Playback Scroll Bar for ease of file playback.

**Frequency Output:** 3.5 to 340 KHz

**Transmit Output Power:** 2KW (Pulsed) (Maximum)

**Input Power:** 10-30 Volts DC, Nominal power 75 Watts,
- 110/220 VAC Optional

**Dimensions:** 35.56cm (14”) Depth, 27.9cm (11.0”) Width,
- and 10.16cm (4.0”) Height.

**Weight:** 4kg (9 lbs). (sensor unit only)

**Environmental:** 0 to 50 degrees C Operating Temperature 0 to 95° non-condensing