KNUDSEN

Mini

SOUNDER

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SOUNDER SERIES

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Mini SOUNDER

Knudsen Sounder Systems are the next benchmark in survey echosounders. The affordable MiniSounder Sounder is industry unique in both compact size and performance. Less than 3 kg. in weight, the system incorporates the latest in digital signal processing technology and includes Knudsen SounderSuite Windows application software for easy interface to your computer via a USB connection. The MiniSounder is ideal for easy transport to changing project sites, and is well suited for quick deployment on small survey platforms in open air environments.

Available only in a single channel configuration but with a wide frequency range, the MiniSounder also offers the flexibility of using more than one MiniSounder together (up to 4) simultaneously within one user application. An attractive low cost, easy portability, and expandable design architecture make the MiniSounder an excellent choice for any project.

Technical Specifications: *(subject to change without notice)*:

Available Channels
- Single channel only

Frequency
- 24kHz - 210kHz

Output Power
- Up to 1kW

Input Power
- 12-30 VDC

Pulse Length
- Up to 4ms

Gain
- Manual, automatic (AGC), and time varied (TVG)
- 96db range of programmable analog gain

Ranges
- 5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000

Phasing
- Manual and automatic (up to 50% overlaps)

Units
- Meters, Feet, or Fathoms

Resolution
- 1cm (0-99.99), 1dm (100-999.9), 1m (>1000)
- 1/100ft (0-99.99), 1/10ft (100-999.9), 1ft (>1000)
- 1/100fm (0-99.99), 1/10fm (100-999.9), 1fm (>1000)

Sound Velocity
- 1300 - 1800 m/s Resolution 1m/s
- 4265 - 5906 ft/s Resolution 1ft/s
- 710 - 984 fm/s Resolution 1 fm/s

Draft
- 0-100m Resolution 1cm
- 0-328ft Resolution 0.01ft
- 0-54fm Resolution 0.01fm

Interface
- USB 2.0 Full Speed (12Mbps)

Output Data
- Full resolution envelope data in KEB binary format and XTF (for sidescan only)
- User configurable ASCII digital depth strings

Dimensions
- 257mm (10.1") x 158mm(6.2") x 89mm (3.5")

Weight
- less than 3kg (7lbs)

Installation
- Desktop or Bulkhead

Operating Temperature
- 0 - 50°C

Additional Features
- Frequency agility on all channels
- Built-in drivers for all popular GPS
- Built-in test signal generator
- Compatible with industry standard dataloggers and processing software (Hypack, QINSy, SonarWiz)
- Heave compensated echogram

Options
- Sidescan option
- Network option for multiple PC operation
- Remote Display Indicators
- EchoSim Sonar Signal Simulator

SounderSuite Software (included)
- Compatible with Windows Vista or higher
- Easy to use Graphical User Interface (GUI)
- Postsurvey Display and Printing Software
- Large Digitized Depth Display
- Print to standard Windows printers