

**K** KNUDSEN

*Mini*

SOUNDER



**SOUNDER  
SERIES**

Proudly Made  
In CANADA





## 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 1fm/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