



SOUNDER RACK SERIES

SOUNDER



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Knudsen Sounder Systems are the next benchmark in survey echosounders. The Sounder Rack 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 unit, housed in a 3U rackmount case, is ideal for quick installation to a standard equipment rack on your survey platform.

Available in a 2 or 4 channel configuration, the versatile system is particularly well suited to multiple survey roles and includes a wide range of standard shallow water bathymetry and sidescan frequencies.

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

Available Channels

- Sounder 1602: up to 2 channels
- Sounder 1604: up to 4 channels

Frequency

- All channels: 24kHz - 210kHz
(12kHz option available)

Output Power

- Up to 1kW per channel

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

- 533mm (21") x 483mm (19") x 133mm (5.25")

Weight

- Sounder 1602: 9kg (20lbs)
- Sounder 1604: 10kg (22lbs)

Installation

- 3U Rackmount case

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