

Min

Mini
SOUNDER

KNUDSEN

SOUNDER SERIES

> Proudly Made In CANADA





ISO9001:2015 REGISTERED







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

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

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



SOUNDER PORTABLE SERIES





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SOUNDER PORTABLE SERIES



Knudsen Sounder Systems are the next benchmark in survey echosounders. The Sounder Portable 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 lightweight, rugged, splashproof case, is ideal for easy transportation to changing project sites, and quick deployment on small survey platforms in open air environments

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 1612: up to 2 channelsSounder 1614: 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

• 488mm (19.2") x 386mm(15.2") x 185mm (7.3")

Weight

Sounder 1612: 9kg (20lbs)
 Sounder 1614:11kg (24lbs)

Installation

Splash-proof 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



SOUNDER PAGE SERES

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SOUNDER

SYSTEM



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R RACK SER



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

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

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