

**KNUDSEN**

The next benchmark in survey...

# SOUNDER 1620



Proudly Made  
In CANADA





## SOUNDER 1620



Knudsen Sounder Systems are the next benchmark in survey echosounders. The new "transportable" Sounder 1620 system offers traditional built-in printer capability while incorporating the latest in digital signal processing technology. Knudsen SounderSuite Windows application software, included with the unit, allows for easy interface to your computer via a USB connection. Housed in a light-weight splashproof case with wheels and handle, the Sounder 1620 is ideal for easy transport to changing project sites, and is well suited for easy deployment on small survey platforms in open air environments.

Available only in a single channel configuration, the Sounder 1620 is an ideal choice for shallow water projects that require a real time built-in printer, and portability.

### 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

**Printer Specifications**

- 32 Greyscale, 203DPI thermal printhead
- 21cm paper height
- Paper advance control

**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**

- 551mm (21.7") x 358mm (14.1") x 226mm (8.9")

**Weight**

- 17kg (38lbs)

**Installation**

- Portable, splashproof 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)**

- Windows Vista, XP and 2000 compatible
- Easy to use Graphical User Interface (GUI)
- Postsurvey Display and Printing Software
- Large Digitized Depth Display
- Print to standard Windows printers and most thermal printers