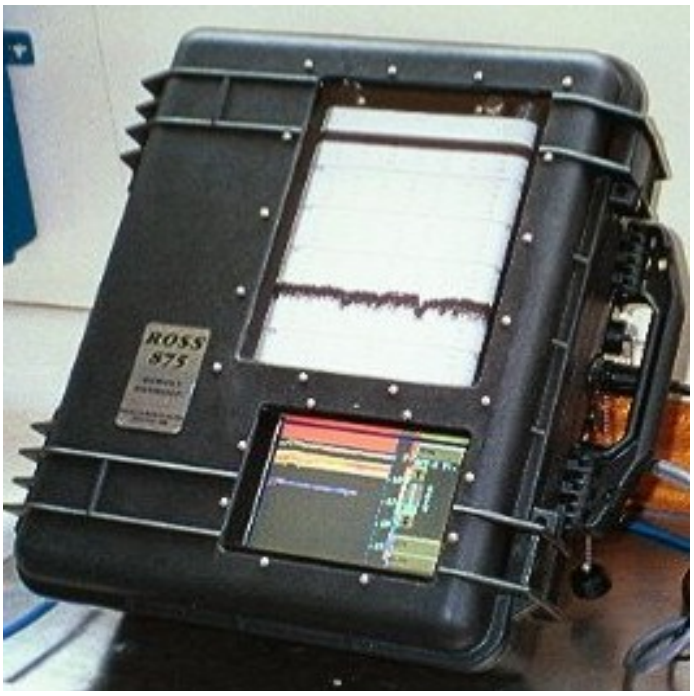
Model 875B

Ross
Laboratories Inc.

Portable Survey Recorder

The Technology of a Ross Smart Sounder and an 8 inch thermal paper chart recorder in one unit. All of the quality and performance that you expect from a Ross sounder in a small easy to operate package.



- **Simple keypad controls.**
- **Digital and paper storage of sounding chart.**
- **USB memory stick data download.**
- **Waterproof**
- **12v DC or 115v AC operation. (with external power supply)**
- **Simultaneous Dual frequency. NMEA-0183 output.**
- **Heave correction and Position data input ports.**

Size - 19.25” x 15.5” x 7.5”
Weight - 25 lbs less Transducer
Temperature - operating 0° to 50° C
- storage -25° to 75° C
Humidity - 0 to 95% RH

Frequency choices:
200 kHz 50 kHz
100 kHz 28 kHz
12 Khz
Custom frequencies are available.

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Model 875 Survey Recorder

The model 875 Portable Survey Sounder is a high performance instrument designed to meet the needs of hydrographic surveyors. The 875 combines the technology of the Ross Smart Sounder and a thermal printer to provide both a paper and digital record of the sounding chart.

Another feature of the 875 is the use of bright 6.4'' color tft screen display for system setup and sounding chart display. The bright display and large menu select boxes along with a 16 button keypad, provide for easy operation in bright summer sunlight or cold weather use with gloves. A simple, user friendly, menu system, has been developed from Ross Laboratories many years of experience in the field. Connectors are available for an external SVGA monitor and standard keyboard when desired.

Two channels of depth soundings can be displayed simultaneously or individually on the recorder and sent to a data collection system via a standard serial port. GPS position information can be connected to the recorder and annotated on the chart.

Serial Output
Custom NMEA-0183 output string in feet or meters.(Interfaces with Hypack software)

Standard NMEA-0183 data string

LCD Display
Displays the actual chart recording or sonogram. The sonogram represents the bottom echo trace by digitizing the analog echo signal levels.

Data Storage and Playback
The entire sonogram (received echo) can be stored on the sounder's Solid State hard drive for future playback and printing. The playback of the data can be done on the sounder. Optional playback software is available for display and editing of the soundings on a personal computer. The transfer of data to the second computer is done using a USB JUMP DRIVE or Memory Stick.

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Specifications:

Chart Recorder

Scale:	Feet, Fathoms, or Meters
Range:	25 ft. min. 2000 ft. max.
Printer:	High Performance Thermal
Paper Size:	8.5" X 131ft. (2.6 max. dia.)
Resolution:	200 dots / inch

LCD Screen Display

Display Type:	Color TFT	
Size:	6.4" diagonal	
Pixels:	640 X 480	
Luminance:	1000nit	
Frequencies:	Choose any two of the following	12, 28, 50, 100, 200
Transmit power:	750 watts rms	
Pulse width:	.1 or .5 ms.	
Minimum Depth:	1.0 ft. @ 200 Khz	

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