

# DIGIBAR PRO™

FOR SEAFLOOR OR RIVERBED SURVEYS



**MODEL DB1200**

PROFILING SOUND  
VELOCIMETER



**TELEDYNE**  
**ODOM HYDROGRAPHIC**

A Teledyne Technologies Company



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The Digibar Pro is the most cost-efficient and accurate means of determining water column sound velocities. It quickly calibrates acoustic systems regardless of sea state or current, and is faster and safer than the traditional bar check method. Digibar Pro uses "sing-around" technology, which automatically compensates for all factors influencing sound velocity, including salinity, depth and temperature.

## GENERAL SPECIFICATIONS

### Velocity Range

- ▶ 1400 - 1600 m/sec  
(4595 - 5250 ft/sec)

### Velocity Resolution

- ▶ 0.1 m/sec (0.1 ft/sec)

### Temperature Range

- ▶ 4° C - 40° C (39° F - 104° F) Typical

### Communications

- ▶ RS232, selectable baud rate and choice of output formats
- ▶ Display and download/logging SW included

## PROBE SPECIFICATIONS

### Sing-Around Frequency

- ▶ 11 kHz

### Velocity Accuracy

- ▶ +/- 0.3 m/sec (+/- 1 ft/sec)

### Sample Rate

- ▶ 10 Hz

### Depth Sensor Accuracy

- ▶ 31.0 cm (1.0 ft)

### Communications

- ▶ RS485, 19.2 Baud (two way between handset and probe)

## Dimensions

- ▶ 37.3 L x 5.0 D cm (14.7 L x 2.0 D in)

## Weight

- ▶ 1.9 kg (4.2 lbs) in air

## HAND UNIT SPECIFICATIONS

### Power Requirement

- ▶ Three "C" cell alkaline batteries in hand unit powers both hand unit and probe
- ▶ External DC power supply available as an option for continuous SV output applications.

## Dimensions

- ▶ 29.0 L x 14.0 W x 9.4 D cm  
(11.4 L x 5.5 W x 3.7 D in)

## Weight

- ▶ 1.2 kg (2.6 lbs)

## CABLE SPECIFICATIONS

- ▶ 4-conductor, Polyethylene-jacketed with Kevlar strength member
- ▶ Breaking Strength - 182 kg (400 lbs)
- ▶ Standard Cable length - 20m
- ▶ Maximum Cable length - 100m

## FEATURES

- Velocity profiles downloaded to a computer
- Handheld display/logger with computer interface
- Battery operated
- Detachable cable (in lengths up to 100 meters)
- Sampling by depth or time
- Stainless steel probe
- Waterproof
- Lightweight
- Portable
- Optional transit cases
- Optional Cable Reel
- Optional Kellems grip



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