

Teledyne Odom Hydrographic

# Digibar Pro

Profiling Sound Velocimeter

## For Seafloor and Riverbed Surveys

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.



### PRODUCT 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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## TECHNICAL SPECIFICATIONS

### VELOCIMETER

<b>Velocity Range</b>	1400-1600 m/sec (4595-5250 ft/sec)
<b>Velocity Resolution</b>	0.03 m/s (0.01 ft/sec)
<b>Temperature Range</b>	4° - 40°C (39°F - 104°F) Typical
<b>Communications</b>	RS232, selectable baud rate and choice of output formats Display and download/logging SW included

### PROBE

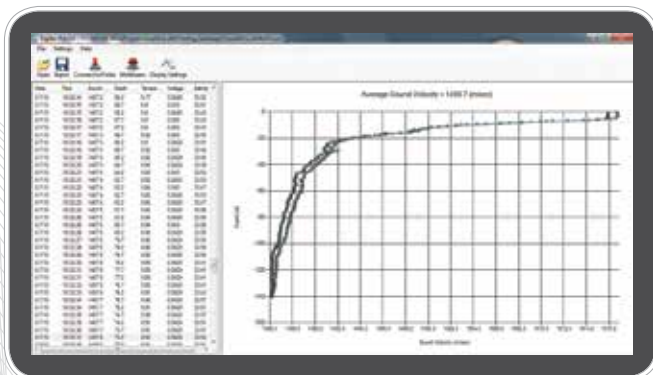
<b>Sing-Around Frequency</b>	11kHz
<b>Velocity Accuracy</b>	+/- 0.3m/sec (+/- 1 ft/sec)
<b>Sampling Rate</b>	10Hz
<b>Depth Sensor Accuracy</b>	31.0cm (1.0 ft)
<b>Communications</b>	RS485, 19.2 Baud (two way between handset and probe)
<b>Dimensions</b>	37.3cm L x 5.0cm D (14.7 in L x 2.0 in D)
<b>Weight</b>	1.8 kg (4 lbs) in air
<b>Depth Rating</b>	NTE 100m

### HAND UNIT

<b>Power Requirement</b>	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
<b>Dimensions</b>	29.0cm L x 14.0cm W x 9.4cm D (11.4 in L x 5.5 in W x 3.7 in D)
<b>Weight</b>	1 kg (2.25 lbs)

### CABLE

<b>Cable Type</b>	4-conductor, Polyethylene-jacketed with Kevlar strength member Breaking Strength - 182 kg (400 lbs) Diameter - 6.9mm (0.27 in) Standard Cable length - 20m Maximum Cable length - 100m
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Sound Velocity Profile



Optional Cable Reel.