

Teledyne Odom Hydrographic

# Digibar S

Self-Contained Sound Speed Profiler

## The New Standard in Sound Velocity Measurement

The rugged all stainless steel DIGIBAR S was designed for untethered sound velocity casting. This configuration frees the probe from its electrical cable making deeper sound speed profiling a much easier and more reliable task. With a 500m maximum depth capability and storage for multiple casts, the profiler's flexible design still maintains some of the best features of the popular Digibar Pro.

Accurate, easy to use, rugged and reliable all appropriate descriptors of the Digibar S and the hallmark of Teledyne Odom's product lines.



### PRODUCT FEATURES

- Velocity profiles downloaded to a computer
- Rechargeable battery operated
- 12 hour operation between charges
- Stainless steel construction
- LED status indicator
- Sampling by depth or time
- Simple to use
- Lightweight
- Portable



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## TECHNICAL SPECIFICATIONS

### VELOCIMETER

<b>Velocity Range</b>	1400-1700m/sec (4593-5577 ft/sec)
<b>Velocity Resolution</b>	0.1m/sec
<b>Velocity Accuracy</b>	± 0.05m/sec RMS
<b>Memory</b>	4KB of battery backed internal memory File Header= 16 bytes 1 Logging event = 16 bytes 250 casts maximum
<b>Communication Interface</b>	USB download software supplied
<b>Operating Temperature Range</b>	-2° to 40°C (in water)
<b>Sample Rate</b>	1kHz
<b>Velocity Measurement Technique</b>	Time of Flight
<b>Logging basis</b>	Depth or Time (0.25m or 1 sec)
<b>Dimensions (Length x Diameter)</b>	61cm L x 6.04cm D, (24 x 2.375 in)
<b>Weight</b>	2.84kg (6.25lb) in air
<b>Power</b>	3 Rechargeable AA Nickel Metal Hydride Batteries
<b>Charging Method</b>	USB port or AC power adapter (USB port adapter cable supplied)
<b>Temperature Resolution</b>	0.01°C
<b>Temperature Accuracy</b>	0.05°C RMS
<b>Environmental</b>	Operating Temperature 0° to 50°C

### DEPTH/PRESSURE SENSOR

<b>Barometric Adjustment</b>	Automatic
<b>Depth Range (Select One)</b>	0-100m (200psi sensor), 0-500m (1k psi sensor)
<b>Depth Resolution</b>	0.1m
<b>Depth Accuracy</b>	+/-0.25% of Full Scale