

## **Applications**

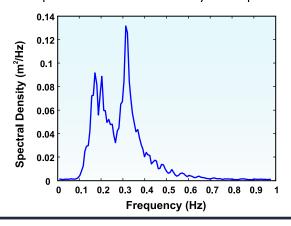
The ASL Wave Profiler™ is an ideal instrument for very accurate wave measurements for many applications including:

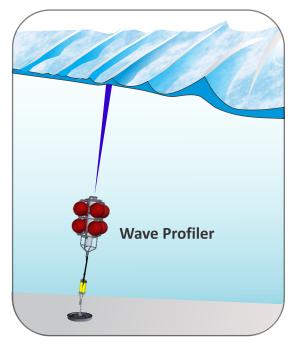
- Offshore Oil Platforms
- Dredging and Sediment Transport
- Research Oceanography
- Fast Ferry Wake

- Bridges and Causeways
- Design of Coastal Structure
- Infra-gravity Waves
- Seasonal Studies

### **Features**

- Allows derivation of standard ocean wave parameters from time series measurements of the acoustic range to the sea surface.
- Ideal for measuring surface gravity waves from depth.
- Provides very linear sensor characteristics eliminating errors due to steep-sided and long swell-waves. Unlike pressure-wave instruments, does not depend on linear wave theory assumptions.







### Features (continued)

# Wave Profiler<sup>™</sup>

- Real-time output available through RS-232 or RS-422 digital serial communications
- Offers exceptional data storage capacity allowing measurements at 2 Hz burst or continuous sampling (4 Hz sampling available at short ranges).

# Wave Profiler TM Specifications

#### **UPWARD LOOKING SONAR**

Standard

**Operating Frequency** 420 kHz

0.9° (center beam to half Beam Width

power point)

Sampling Rate 2 Hz

up to 100% **Duty Cycle** 

225 m Range Precision ± 0.05 m Resolution 0.01 m 4 levels

Gain

**REALTIME CLOCK** 

Accuracy ± 5 min/year **DATA STORAGE** 

Standard 8 GB Compact Flash Optional 16 GB Compact Flash

**POWER** 

Standard Provides more than 26 weeks at 2 Hz sampling

and 100% duty cycle

Extended alkaline battery pack or carrier for Optional

Lithium battery packs to extend deployment

duration.

SIZE

0.17 m diameter x 1.0 m length

**SOFTWARE** The following Windows-based software is included with the Wave Profiler™ package:

IPS5Link Communications software to enable setup and download functions.

Allows computation and display of significant wave height, peak period and auto spectra WaveSoft

**OPTIONAL FEATURES** 

Sea Ice Draft Profiling with a high resolution pressure sensor (Ice Profiling Sonar™—IPS).

Extended alkaline battery pack or carrier for Lithium battery packs to extend deployment duration.

Custom versions of the Wave  $Profiler^{TM}$  are also available for Autonomous Underwater Vehicles (AUV).

Both taut line and gimballed bottom mount moorings available.

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