

New Digital Board
With 16 Bit A/D

Wave Profiler™



A highly accurate upward-looking instrument for measuring waves at Continental Shelf depths.

Applications

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

- Offshore Oil Platforms:
 - Siting studies
 - Environmental studies
 - Monitoring
- Dredging & Sediment Transport studies
- Research Oceanography
- Fast Ferry Wash & Wake Studies
- Bridges and Causeways
- Design of Coastal Structures
- Infra-gravity Waves
- Seasonal Wave Studies
(eg max. and typical conditions)

Features

Allows derivation of standard wave parameters from time series measurements of the acoustic range to the sea surface.

Offers exceptional data storage capacity allowing measurements at 2Hz burst or continuous sampling (4Hz sampling available at short ranges).

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.

Excellent horizontal resolution using a high frequency (420 kHz) transducer with narrow (1.8°) beam width.

Large data capacity and integrity capability provided by on-board 4 Gbyte Compact Flash memory (up to 16 GB supported).

Versatile PC-based software for deployment planning and initialization, instrument testing and downloading of stored data.

Low power consumption permits long-term operation at high sampling rates.

Real-time output available through RS-232 or RS-422 digital serial communications.



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Wave Profiler™ Specifications

www.aslenv.com

UPWARD LOOKING SONAR	Standard (High Performance)	Optional (Ultra Performance)
Operating Frequency	420Khz	420Khz
Beam Width	1.8°	1.8°
Sampling Rate	2Hz	up to 4Hz
Duty Cycle	up to 100%	up to 100%
Range	up to 225m	up to 55m
Precision	± 0.05m	± 0.05m
TILT SENSOR (for sonar beam angle) Range ± 20° Accuracy ± 0.5° Precision 0.01°		REALTIME CLOCK Accuracy ±5 min/year
DATA STORAGE Standard 4GB Compact Flash Optional Up to 16GB Compact Flash Supported		
POWER Standard Provides more than 26 weeks at 2Hz sampling and 100% duty cycle Optional Lithium Battery Pack available for extended deployments		
SIZE 0.17m diameter x 1.1m length (standard)		
SHIPPING WEIGHT 37kg (in ruggedized aluminum shipping/storage case)		

SOFTWARE

The following Windows-based software is included in the Wave Profiler™ package:

WaveLink Communications software to enable setup and download functions

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

OPTIONAL FEATURES Delrin endcap
Can provide Sea Ice Draft Profiling (with high resolution pressure sensor)

Custom version of the Wave Profiler™ are also available for mounting in Autonomous Underwater Vehicles (AUV).

Both taut line and gimbaled bottom mount moorings Available.

