

UB-Lab P

the world first portable UVP

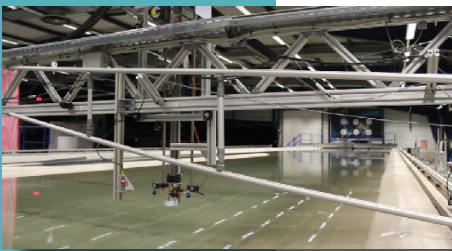
Velocity and Echo Profiles for Laboratory Setup and Industrial Pipes

Features



- velocity and backscattered intensity profile measurement by **high accurate** pulsed coherent Doppler (UVP)
- **compact** and **splash-proof** enclosure adapted to harsh environments
 - internal **battery** and **wifi** connection
 - ergonomic embedded **Web interface** for setting up, observing **real-time** data and recording
 - control of a wide variety of external transducers
 - high **quality** measurements
 - high spatial and time resolution

Applications



- sediment and suspension monitoring in flumes and pipes
- **laboratory** studies
- turbine and marine current turbine calibration
- **complex fluids** studies
- CFD input and validation
- industrial process optimization
- **food engineering** process control
- reactor monitoring

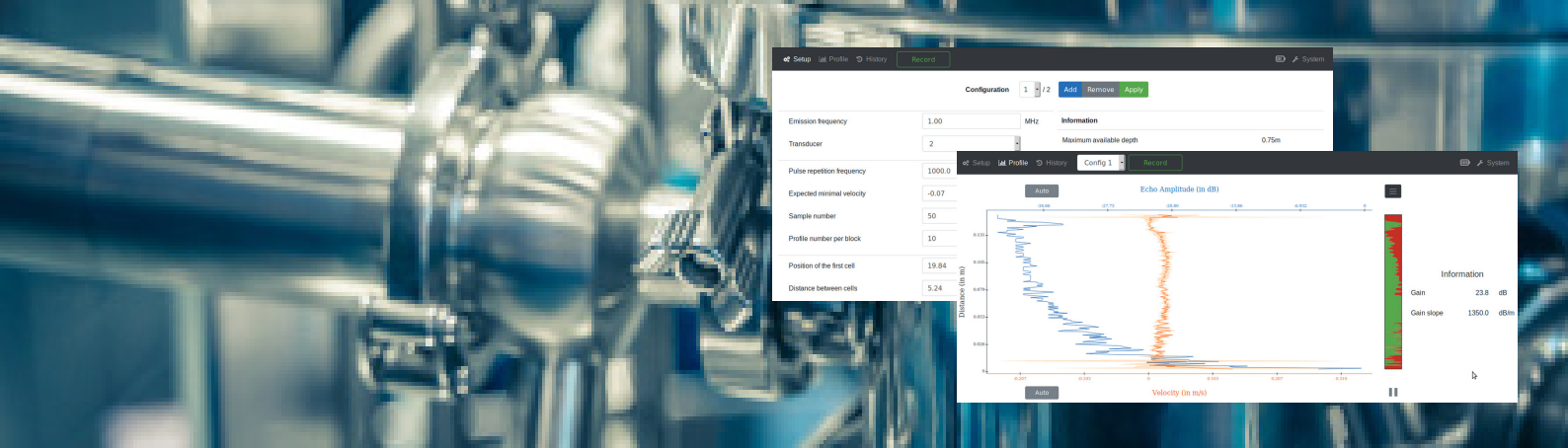
Our devices are available for rent, for lease and for sale.

Contact



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Technical specifications

Measurement Performances

Sampling range	0.005 to 4 m
Number of cells	2 to 200
Cell size	0.73 mm to 30 mm
Velocity range	[-4 to 4] m/s (under Nyquist condition)
Velocity accuracy	0.2 to 1%
Velocity resolution	15 ppm of the velocity range
Sampling rates	up to 15 Hz
Signal processing	Coherent Doppler with phase coding
Number of configurations	3
Trigger IN/OUT	Yes (lemo connector for FFA.00.250)

Acoustics

Measurement modus	monostatic
Number of transducer connectors	2 for transducers in emission/reception
Type of transducer connectors	lemo for FFA.00.250
Frequency range	0.025 to 3.6 MHz
Beam width	2° to 5° half angle (depending on the transducer and on the emitting frequency)
Emission voltage	50V typical

Physical

Dimensions	28 x 58 x 210 mm
Weight	0.2 kg
Cable	wireless

Data Management

Communication	Wifi
Internal data logger	Up to 1.2 Go
File format	Binary data file (.udt)
Velocity	Velocity profile data (relative to acoustic beam directions) per beam and cell
Echo	Backscattered echo RMS amplitude per beam and cell
Data Quality	Velocity data quality indicator per beam and cell

Power

Input	5V
Consumption	Typical : 2.5 W max : 7.5 W during battery charging ; autonomy : 3h
ON/OFF LED	Yes with power button

