

Velocity and Echo Profiles for Laboratory Setups 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
 - 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

File format

Data Quality

Consumption

ON/OFF

Velocity

Echo

Power

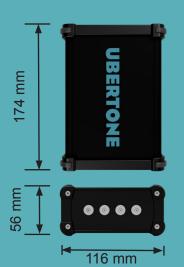
Input

l 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	[-10 to 10] 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 (see <u>FAQ</u>)
	Signal processing	Coherent Doppler with phase coding
	Number of configurations	9
	Trigger IN/OUT	Yes (lemo connector for FFA.00.250)
	Acoustics	
	Measurement modus	Monostatic
	Number of transducer connectors	4 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	174 x 116 x 56 mm³
	Weight	0.8 kg
	Data Management	
	Communication	HTTP through Wi-Fi 802.11g (Ethernet optional via USB)
	Internal data logger	Up to 1.2 Go

Binary data file (.udt)

per beam and cell

USB 5 V; 1.5 A



Velocity profile data (relative to acoustic beam directions)

Backscattered echo RMS amplitude per beam and cell

Velocity data quality indicator per beam and cell

Typical: 3.5 W; Maximum: 7.5 W

Button with LED indicator