

# UB-SediFlow

## the Hyperband Acoustic Profiler

Acoustic backscattered echo profiles for suspension  
and sediment transport studies

### Features

- Mobile **multi-frequency** acoustic profiler
- **Backscattered echo profile** measurement along 4 acoustic beams
- Composed of 2 hardware modules connected by a cable :
  - 1 acoustic module (incl. **4 transducers** + acoustic electronic board), **waterproof** down to 20 m
  - 1 **logger** (acquisition and communication module), splashproof
- The logger communicates through **wifi** and a mobile version can be powered on **battery** (12 hours autonomy with a 20Ah powerbank)
- **Trigger** input/output for synchronisation with other instruments
- **Web interface** for parameter setting, real-time data visualization management and record management (includes start time, stop time and interval), data provided in **binary** format
- Management of up to 9 sets of parameters (configurations)
- The logger can be used in a **fixed installation** if connected to a power supply (in a dry environment)



### Applications



- **Sediment** monitoring in river, lake and sea
- Mud monitoring in WWTP
- **Suspension** study in tank

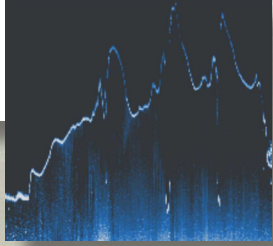
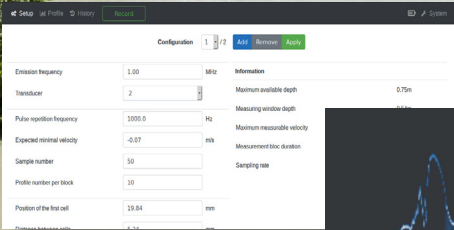
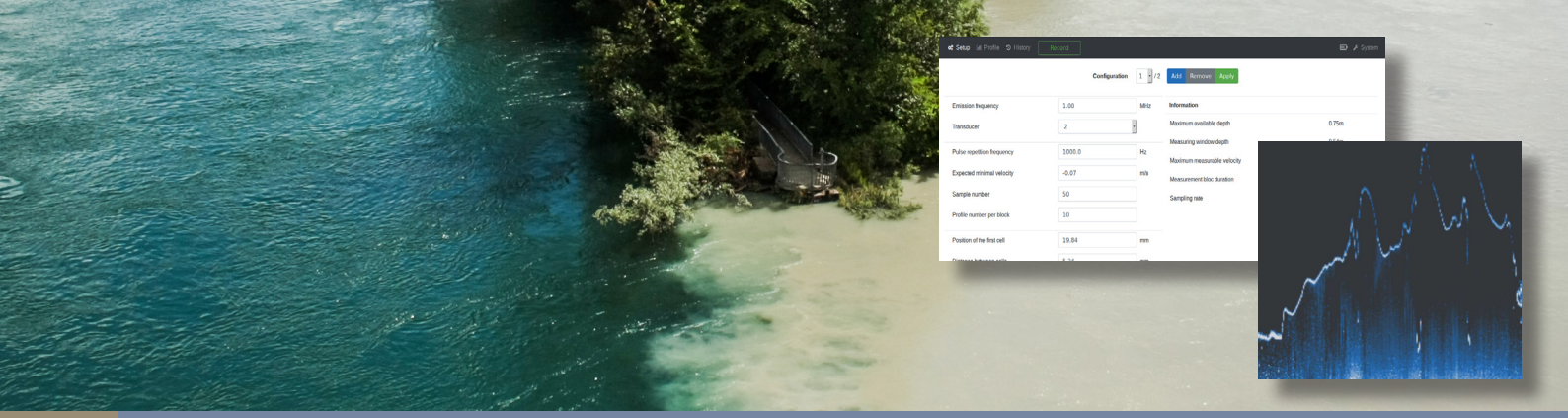
Our devices are available for rent, for lease and for sale.

### Contact

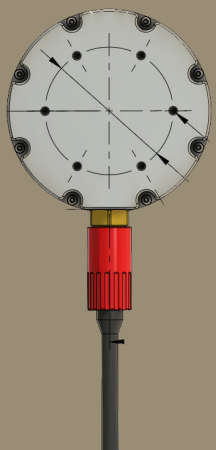
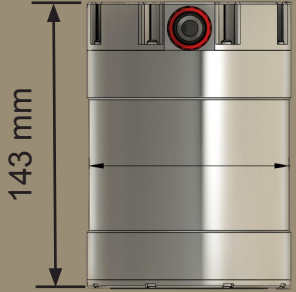
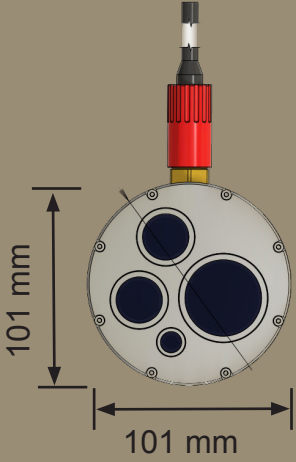


UBERTONE S.A.S.  
8A, rue Principale  
67300 Schiltigheim - FRANCE  
+33(0) 367 100 883 - [www.ubertone.com](http://www.ubertone.com)  
[info@ubertone.fr](mailto:info@ubertone.fr)

# UBERTONE



# Technical specifications



Measurement Performances	
Sampling range	0.05 to 8 m
Number of cells	2 to 200
Cell size	3 mm to 10 cm
Sampling rates	Up to 5 average profiles per second
Number of configurations	9
Trigger IN/OUT	Yes
Acoustics	
Transducer	4 broadband transducers centered on 0.5 ; 1 ; 2 ; 4 MHz with active diameters of resp. 35 ; 20 ; 20 and 10 mm
Frequency range	0.35 to 5.00 MHz
Beam width	1.5° to 6° (depending on the transducer and on the emitting frequency)
Emission voltage	50V typical
Physical	
Dimensions	101 x 101 x 143 mm (acoustic module)
Weight	3.3 kg (acoustic module)
Cable	Up to 20 m (between acoustic module and logger)
Data Management	
Communication	Wifi connection to logger Modbus through RS485 between both modules
Internal data logger	1.2 Go
File format	Binary (.udt)
Echo	Backscattered echo RMS amplitude per beam and cell
Power	
Input	12V DC (for the acoustic module) 5V DC (for the logger)
Consumption	Typical 2W (for the acoustic module) Typical 1.5W (for the logger)
ON/OFF LED	Button and indication LED (on, off, charging) on the logger