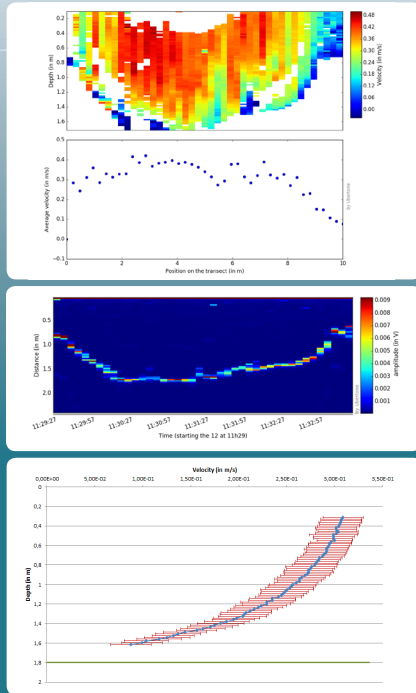


A High Resolution Miniature UVP Applied to Environmental Monitoring

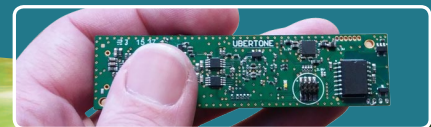
High resolution velocity profiles in shallow water

- System moving along the transect of a flume or river
- HR-ADCP for detailed flow mapping over 2m
- Bottom tracking
- Web assistant simplifying the data visualisation
- Phase coding, static echo filter, automatic gain control
- Applicable to physical models



Miniature hardware for drones and AUV

- Small, light, low power consumption, quick power up: ideal for embedded applications
- Ready to be embedded on a flying drone for flow measurement on rivers (in partnership with LORIA)



POWER	
Input	5 V DC
Consumption	0.5 to 1 W
Power up	0.6 s
PHYSICAL	
Size	21 x 85 mm
Weight	14 g
Vibration and shock resistant	
ACOUSTIC	
Number of transducers	2
Emitting frequency	0.4 to 3.6 MHz
PROFILING PERFORMANCES	
Spatial resolution	Min 1 to 2 mm
Number of cells	100
EMBEDDED SENSORS	
Temperature	±0.5°C
Pitch + Roll	±0.5°

**Instrumentation
Environment
High Resolution
Flow Field Velocity Mapping**



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Hydrométrie 2017,
Lyon 14-15 mars 2017.