Ultrasonic measurements

in liquids





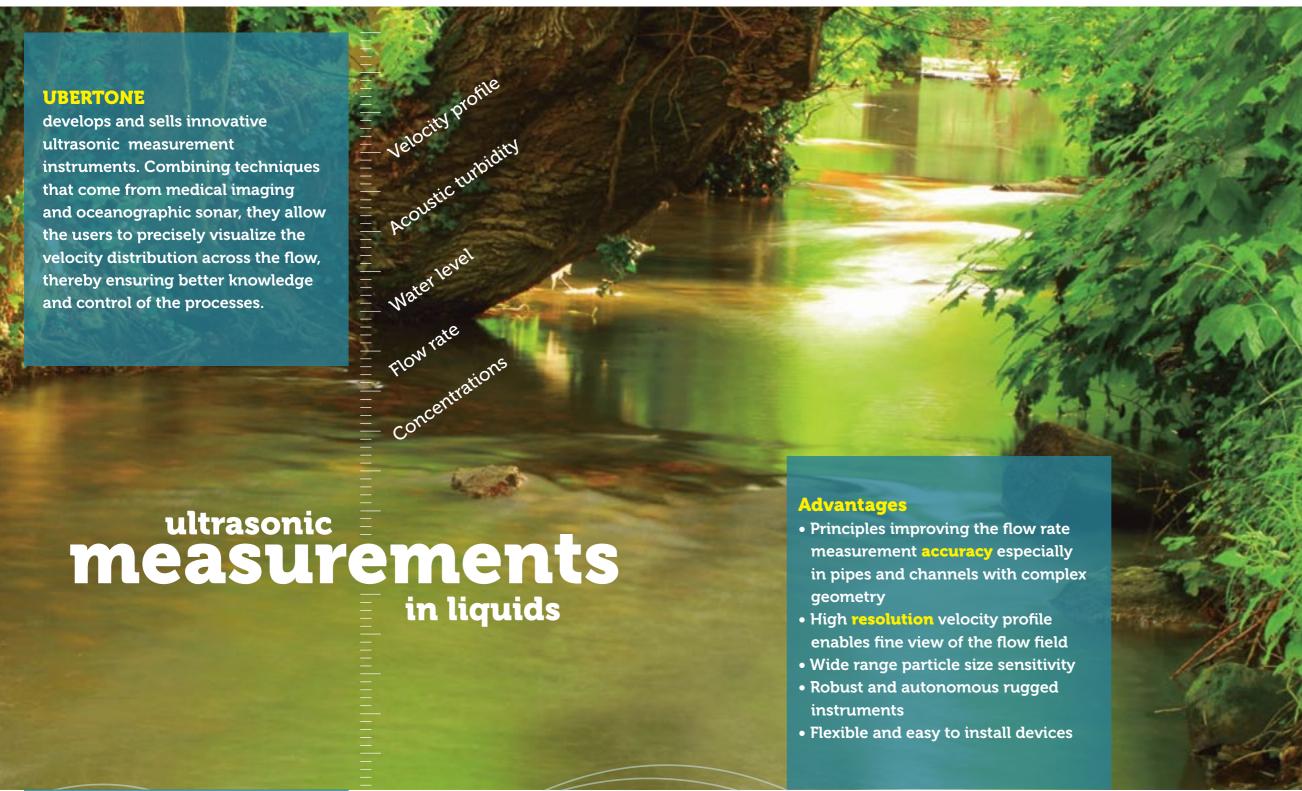
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UBERTONE

- Design, manufacture and sale of ultrasonic measurement instrument
- ➤ Instruments rental
- Measurement services, data analysis, metrology consulting
- ➤ Custom developments
- ➤ Training courses in ultrasonic and flow measurement techniques

Technology

Pulsed Ultrasounds

Wide frequency range (1 to 10 MHz)

Measurements by Doppler

- Analysis of the backscattered echoes from the suspended particles
- Multi-beam profile measurements (cells distributed along narrow ultrasonic beams)

Interfaces

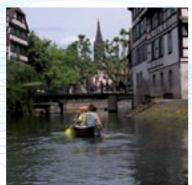
- ➤ Embedded dynamic WEB (instrument setup, real-time plot, data download)
- ➤ Communication protocols and power over Ethernet bus

Applications



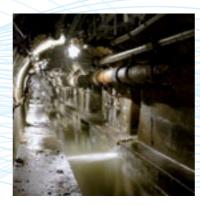
Laboratory

- Fluid mechanics research (hydrodynamics, turbulence, solid transport, etc.)
- Experimental validation of civil structures
- Boundary conditions for numerical modeling



Rivers and canals

- Hydraulic characteristics
- Sediment transport studies



Sewerage

- Network diagnosis
- In-situ flowmeter calibration (even during stormwater)
- Combined sewer overflow (CSO) assessment

