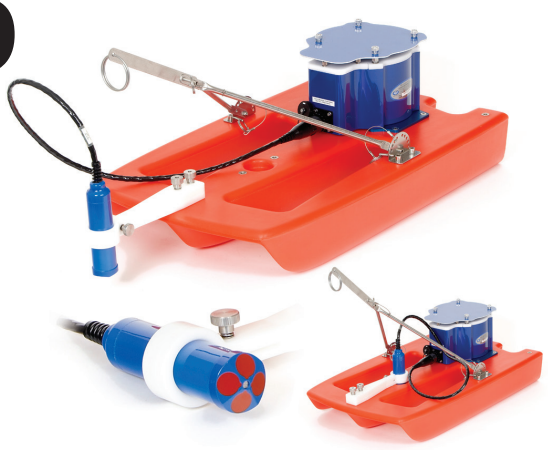
StreamPro ADCP

Shallow Streamflow Measurement System

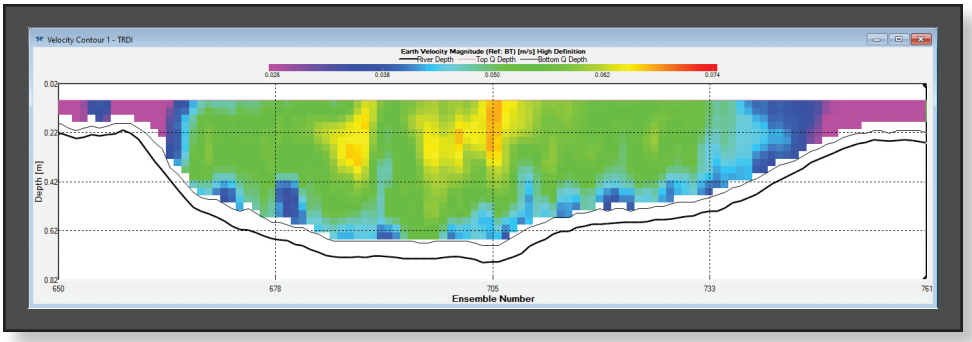


The StreamPro's transducer can be towed from the front or middle of the float, or can be removed and hand-held in the water for applications such as under-ice flow measurements.

Teledyne RD Instruments' **StreamPro ADCP** (Acoustic Doppler Current Profiler) is the industry standard in streamflow measurement. Built on years of Broadband experience, StreamPro enables a detailed measurement in a matter of minutes—a fraction of the time required using handheld point Doppler, electromagnetic, or mechanical devices. A discharge is obtained in real time and comes with QA/QC checks both during data collection and in post-processing to ensure compliance with organizational standards.

PRODUCT FEATURES

- **Solid Acoustics:** 2 MHz operating frequency plus 20-degree beam angle ensures fullest velocity profile across the widest range of depth and sediment conditions.
- **Reduced Disturbance:** Smallest transducer head of any ADCP; reduced flow disturbance and easy use under ice.
- **Long-Range Bottom Tracking:** Reliable up to 7 m, profiling up to 6 m, standard on all systems.
- **Wireless Range:** 200 m long Bluetooth range ensures even short range communications resist dropouts.
- **Configurable:** Minimum cell size 1 cm with up to 30 cells.
- **Stable Floats:** Trimaran-style standard and high-speed options ensure consistent data under variable conditions.
- **GPS option available**.
- **Flexible Data Format:** Compatible with Teledyne RDI's WinRiver II software for data display and processing.
- **Low Power:** Full day of operation on AA batteries.
- **Affordable:** Surprisingly value-priced to suit your budget.



ADCP	IDEAL FIELD ENVIRONMENT
StreamPro ADCP	Shallow streams, 10 cm - 6 m
RiverPro ADCP	Deep streams to shallow rivers, 20 cm - 25 m
RiverRay ADCP	Shallow to deep rivers, 40 cm - 60 m

Above right: Sample data from StreamPro in high-precision mode in Cépet, France.

Above:Teledyne RDI's StreamPro ADCP can simply be pulled across the stream as you walk across a bridge, or attached to a tagline to collect real-time data.

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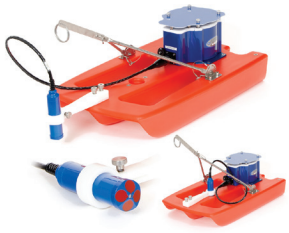
StreamPro ADCP Shallow Streamflow Measurement System



TECHNICAL SPECIFICATIONS

Water Velocity Profiling	Profiling range	0.1 m[1] to 6 m		
	Velocity range	±5 m/s[3]		
	Accuracy	±1% of water velocity relative to ADCP, ±2 mm/s		
	Resolution	1 mm/s		
	Number of cells	1–30		
	Cell size	1 cm to 20 cm		
	Blanking distance	3 cm		
	Data output rate	1 Hz		
Bottom Tracking	Depth range	0.1 m–7 m[2]		
	Accuracy	±1.0% of bottom velocity relative to ADCP, ±2 mm/s		
	Resolution	1 mm/s		
Depth Measurement	Range	0.1 m–7 m[2]		
	Accuracy	1%[4]		
	Resolution	1 mm		
Sensors		Temperature	Tilt (pitch and roll)	Compass (heading)
	Range	-4° to 45°C	±90°	0-360°
	Accuracy	±0.5°C	±0.3°	±1°
Operation Modes	Standard profiling (Broadband)			
	High-precison profiling (included, for depths 0.1 m to 1.0 m)			
Transducer	Frequency	2 MHz		
	Configuration	Janus 4 beams at 20° beam angle		
Software (included)	**WinRiver II** (standard) for moving-boat measurement			
Available Upgrades	• **SxS Pro Software** for stationary measurement • **Q-View Software** for quality assessment and reporting • **GPS** • **Riverboat SP** or **High-Speed Riverboat (HSRB)**			
Communications	Bluetooth wireless range 200 m[5]			
	Baud rates: 115,200 bps			
Construction	Cast polyurethane with stainless hardware			
Power	Voltage	10.5 –18 VDC (8 AA batteries, alkaline or rechargeable NiMH)		
	Battery capacity	7.5 hours continuous with 8 AA alkaline batteries; 12.75 hours continuous with 8 AA NiMH rechargeable batteries		
Environmental	Operating temperature:	-5°C to 45°C		
	Storage temperature:	-20°C to 50°C		
Physical Properties	Weight in air	5.9 kg including electronics, transducer, float, and batteries		
	Dimensions	Electronics housing: 16 x 21 x 11 cm		
		Transducer: 3.5 cm diam. x 15 cm length; Float: 42 x 70 x 10 cm *(line drawings available upon request)*		

1 Assume one good cell (minimum cell size) with high precision profiling mode, range measured from the transducer surface.
2 Assume fresh water, actual range depends on temperature and suspended solids concentration.
3 2 m/s for standard float; 3.5 m/s for optional high-speed float.
4 Assume uniform water temperature and salinity profile.
5 Nominal range; actual may vary with environmental conditions.

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