The optional Stationary Measurement software now makes your RiverSurveyor system a more powerful and efficient discharge measurement tool by allowing you to use it reliably in places that traditional “moving-boat” applications are not possible. One-pass, and you are done. Your results are processed and a discharge report is printed in just a few clicks of the mouse. Now, that’s simple, reliable and smart!

Using the USGS/ISO/WMO traditional Mid-Section method to compute discharge, the Stationary Measurement Software easily computes discharge in difficult river conditions that render most standard moving-boat measurements useless. Now you have an option that provides reliable and accurate results even in low flow, turbulent, moving-bed conditions or even under ice!

Harness the full power of your RiverSurveyor system using our user-friendly moving boat measurement software to measure discharge or survey currents. The software is as intuitive as possible for new users, while still providing advanced users with the flexibility they need.

A clear and concise step-by-step instrument setup procedure means that it only takes a few minutes from unpacking your system to collecting good data. Integration of DGPS and Echo Sounder units with your system is a breeze. Just connect the unit to your computer and let the software do all the hard work for you. The software is as intuitive as possible for new users, while still providing advanced users with the flexibility they need.

Year-round Reliable, Safe and Accurate Discharge Measurements

RiverCAT “Integrated Catamaran”

The RiverCAT picks up where the Mini system leaves off by integrating the Mini-ADP, a set of rugged 27” (69-cm) aluminum floating pontoons, and Bluetooth radio telemetry into a convenient all-in-one package.

This “Pack and Go” acoustic Doppler current profiler/discharge measurement system weighs less than 25 lbs (12 kg) when assembled, and easily fits into a portable hard-plastic case with wheels.

As another option, OceanScience catamaran or trimaran pontoons are available and offer added stability in higher flow speeds or adverse water conditions.

RiverSurveyor “Mini” System

SonTek’s popular RiverSurveyor Mini-ADP system now comes with standard, built-in Bluetooth (Class 1) radio telemetry. And with its small 4” (10 cm) diameter transducer head and replaceable alkaline battery power, the Mini system is easy to move about and can mount over the side of any boat or platform. The reduced diameter head creates very little flow disturbance making it ideal for measurements in shallow rivers.

Quick and Easy

RiverSurveyor starts with an easy-to-use software package built from years of field experience. Just enter the maximum water depth into the software and you are ready to go! With a design philosophy based on ease-of-use and saving you time, most users can learn the basic measurement techniques quickly and without requiring extensive training.

Professional quality summary reports are just a click away using the RiverSurveyor software. Customize the report to meet your organizational requirements or take advantage of the multi-language (Spanish, French, Italian and Portuguese) templates that come standard with the software. Both English and Metric units are supported.

Quality

The optional Stationary Measurement software now makes your RiverSurveyor system a more powerful and efficient discharge measurement tool by allowing you to use it reliably in places that traditional “moving-boat” applications are not possible. One-pass, and you are done. Your results are processed and a discharge report is printed in just a few clicks of the mouse. Now, that’s simple, reliable and smart!

Using the USGS/ISO/WMO traditional Mid-Section method to compute discharge, the Stationary Measurement Software easily computes discharge in difficult river conditions that render most standard moving-boat measurements useless. Now you have an option that provides reliable and accurate results even in low flow, turbulent, moving-bed conditions or even under ice!

Moving Boat Measurements

Harness the full power of your RiverSurveyor system using our user-friendly moving boat measurement software to measure discharge or survey currents. The software is as intuitive as possible for new users, while still providing advanced users with the flexibility they need.

A clear and concise step-by-step instrument setup procedure means that it only takes a few minutes from unpacking your system to collecting good data. Integration of DGPS and Echo Sounder units with your system is a breeze. Just connect the unit to your computer and let the software do all the hard work for you. Other features include:

- Navigation display and integrated waypoints
- Automated shallow water profiling to measure even more water
- Batch processing to summarize all your data instantly
- Built-in help features
- Automatic transducer depth measurement
RiverSurveyor
Discharge Measurements
Made Easy...

SonTek, ADP and RiverSurveyor are trademarks of SonTek/YSI, San Diego, CA USA.
The RiverSurveyor is made in the USA.
RiverSurveyor Lit Code: S03-04 0307

Other Great Products From SonTek:

FlowTracker
Handheld Doppler current meter easily attaches to wading rods and features a built-in discharge calculation algorithm.

Argonaut-SW
Up-looking Doppler flow sensor for natural streams, irrigation canals, and pipes/culverts.

Argonaut-SL
The world’s leading instrument for monitoring flow and level from the side of an open channel.

FlowPack
Data analysis software that helps you produce attractive, professional Velocity Indexing reports in minutes.

With the SonTek/YSI RiverSurveyor system, measuring flow in more places has never been easier.

Velocity Data
Range: ±10 m/s
Resolution: 0.1 cm/s
Accuracy: ±1 % of measured velocity, ±0.5 cm/s
Up to 100 range cells

Frequency Profiling Range Minimum Cell Size
500 kHz System 2.0 - 100 m (6.6 - 330 ft) 1.0 m (3.3 ft)
1.5 MHz Mini 0.75 - 35 m (2.5 - 115 ft) 0.25 m (0.8 ft)
1.5 MHz Mini 0.3 - 25 m (1.0 - 82 ft) 0.25 m (0.8 ft)
3 MHz Mini 0.13 - 6.0 m (0.4 - 19 ft) 0.15 m (0.5 ft)

Nominal range can vary depending on environmental conditions.

RiverSurveyor Hardware Features (Mini Only)
• SonTek ADP (Acoustic Doppler Profiler)
• 360º solid state TrueCompasSlt sensor
• Temperature sensor
• RS-232 serial interface
• Bluetooth telemetry system (200m range)

Optional Features
• Pressure sensor for transducer
depth corrections (not available on 1.0 MHz Mini)
• Built-in recorder (not available on 1.0 MHz Mini)
• Four-beam transducer head (500 kHz system only)
• Integrated DGPS system via ADP electronics
• 46” plastic OceanScience Catamaran/Trimaran hulls
• Premium FreeWave radio modem (over 2-km range)

RiverSurveyor/RiverCAT
Specifications

RiverSurveyor/RiverCAT Features

RiverCAT
27” Aluminum catamaran
(with case)
Integrated Bluetooth telemetry
Battery compartment with replaceable “C” cells
Hard plastic shipping case with wheels

Convenient mobile carrying case

RiverSurveyor/RiverCAT Applications

RiverSurveyor has year-round applications in:
• Rivers and Open Channels
• Natural Streams
• Irrigation Channels

Designed by hydrologists, the RiverSurveyor software is simple to use and shows the data in the format you want. RiverSurveyor allows you to collect and process your data while supporting many export and reporting formats.

The SonTek RiverCAT offers the ultimate solution. What would normally take several hours, heavy equipment, and several people can now be accomplished in a few minutes with minimal effort. The modular design of the RiverCAT enables it to be used on or off the provided catamaran. The optional DGPS makes it an ideal tool for operating in large rivers and lake/open channels.

The Mini-ADP system features a small 4” (10 cm) diameter head making it very easy to install over the side of small boats. Its small diameter creates minimal flow disturbance making it an ideal choice for shallow rivers.

Under ice discharge measurements on the Mackenzie River, Northwest Territories, Canada.

Chinese National RiverCat Training Course, Shanghai, China.

Sound Principles. Good Advice.

www.sontek.com

RiverSurveyor Software Features

Windows 2000/NT/XP/Vista+ compatible
Bottom-tracking (independent of GPS)
DGPS and Echo Sounder interface
Real-time discharge calculation
Landmarks and navigation waypoints
Discharge measurement options for unmeasured areas
Professional discharge summary reports and output
Vessel track with velocity vectors
Bathymetric profile

RiverSurveyor/RiverCAT
Features

RiverCAT
27” Aluminum catamaran
(with case)
Integrated Bluetooth telemetry
Battery compartment with replaceable “C” cells
Hard plastic shipping case with wheels