

LISST-StreamSide

A pumped in-line Sediment Sensor designed for continuous monitoring of shallow streams and rivers

• Particle Size Distribution

Sequoia Scientific, Inc. announces the availability of a new laser particle size analyzer designed for monitoring shallow rivers, streams, or ponds. The LISST-StreamSide is a flow-through instrument designed for use in field environments. Water is pumped through the instrument and the detailed size distribution and volume concentration is measured. After flowing through the instrument

• Sediment Concentration

the water is then returned to the source. A water sample is not retained. Therefore no sample handling or lab processing is required. Sampling protocols are easily programmed through software or graphics touch panel display. Built-in clean water background system allows for automatic "zeroing" of the instrument before each measurement or on a fixed

schedule. This automatic re-calibration of the instrument allows the instrument to compensate for fouling of the optics due to biological growth or other means. Communication with the instrument is through a standard serial link that is compatible with many wired and wireless remote data transfer devices. Detailed specification and list of features are provided on the back.



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FEATURES

- Laboratory grade laser particle size analyzer compliant with ISO-13320-1 standard
- Records detailed size distribution and concentration in 32 size classes
- Standard 5mm optical path for high concentrations
- Built-in Clean water delivery system for automatic clean water background collection
- 5-inch Graphics Touch panel for system configuration and size distribution display
- Built-in Compact Flash memory (128Mb standard, expandable to 4Gb)
- Size Distribution is computed on board and saved as ASCII file compatible with Excel
- Nominal 12VDC power (110VAC or 220VAC optional)
- Sealed NEMA-4X housing with clear cover.
- Optional Extended Interface Module to provide additional inputs, outputs and controls. Inputs include external analog inputs such as water level sensors, rain gage or temperature sensors. Digital inputs can be used to trigger sample collection. Outputs include switch closure triggers for traditional water samplers and 4-20ma output for Mean Size and Total Volume Concentration.
- Specially designed 12V sealed pump is available and recommended for use with the LISST-StreamSide

SPECIFICATIONS (PRELIMINARY, SUBJECT TO CHANGE)

Sediment Concentration

Range: 10 mg-3,000 mg/L (approx. range; depends on grain size)
Resolution: <1mg/l

Sediment Size Distribution

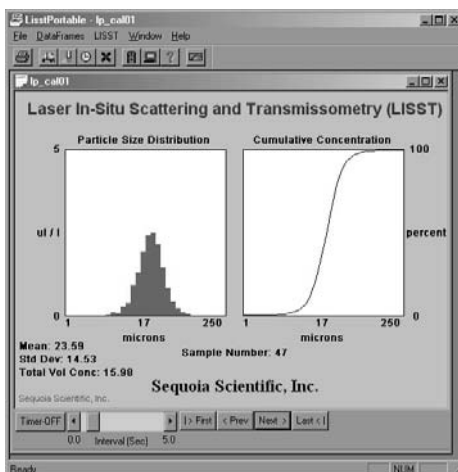
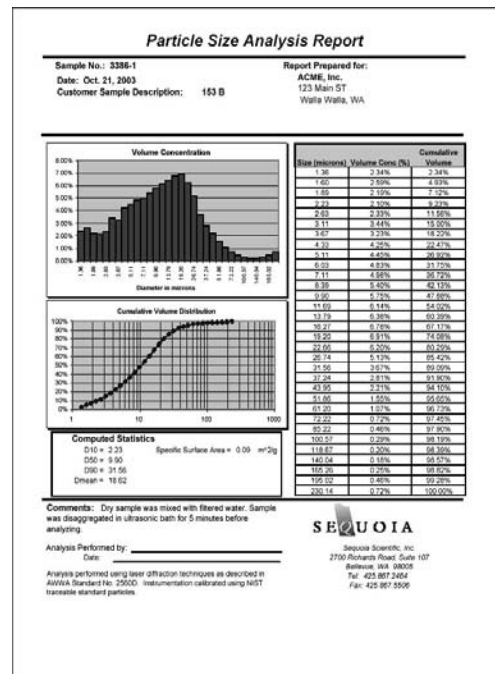
Number of size classes: 32 (log-spaced)
Size Range: 2.5-500 microns

Sample Acquisition Time

1 sec for 30 measurement average. Typical maximum sample rate is 1 size distribution per minute.
Number of measurements per average and sample rate is programmable.

Mechanical and Electrical

Dimensions: 30cm tall x 25cm wide x 18cm deep
Power: 6-15VDC 500ma max during sampling
(not including pump)
Communications: RS-232 9600 baud



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