

LISST-INFINITE

Automatic Dilution System for LISST-25X / LISST-100X

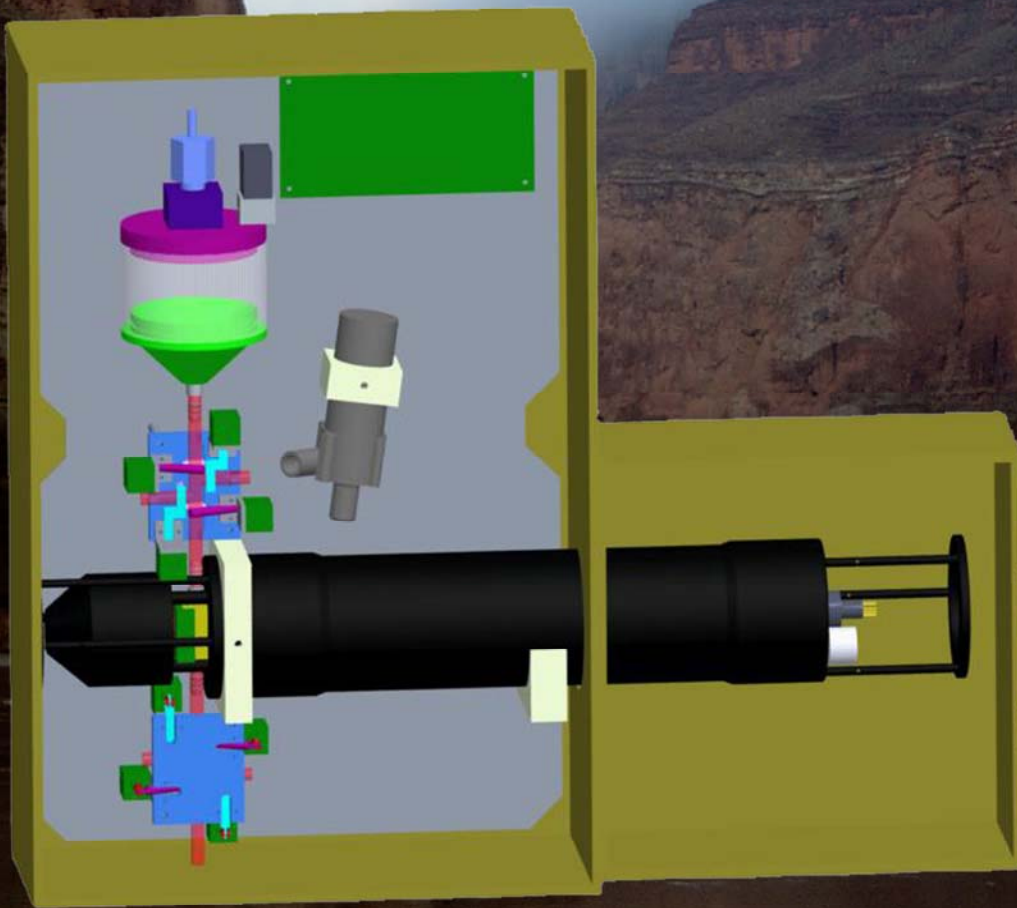
• Very High Concentration Range • Option for LISST-100X/ 25X

The LISST-INFINITE is an automated dilution system designed to extend the high end of sediment concentration measured with the LISST series instruments. The LISST-INFINITE integrates with either the LISST-100X or LISST-25X to produce a shore-based, pumped high concentration system. The submersible instruments can be

easily removed for standard field deployments. LISST-INFINITE is a self-contained system that includes a controller, a set of solenoid valves, and a pump. An external fresh-water supply is required for dilution. The system receives commands from the LISST-100X or LISST-25X when dilution is required and executes a dilution and measurement sequence.

By employing 2-steps of dilution, extremely high concentration of sediments up to 500,000 mg/l can be measured.

The LISST-INFINITE is designed to operate by a river bank with line power, or from solar powered batteries.



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FEATURES

- Designed to be used in combination with a LISST-25X or LISST-100X
- Submersible instrument can be easily removed for field deployments
- No modifications to standard LISST-25X/LISST-100X required.
- Flexible impellor intake pump for sample acquisition
- 50:1 single dilution, Multiple dilutions as required
- Built in clean water source level monitoring
- Automatic clean water backgrounds for improved long term performance

SPECIFICATIONS (PRELIMINARY, SUBJECT TO CHANGE)

Sediment Concentration

Range: 5 mg-500,000 mg/L (approx. range; depends on grain size)

Resolution: <1mg/l

Parameters Measured

With a LISST-100X:

Detailed Particle Size distribution in 32 log spaced size classes, Detailed Volume Concentration, Optical Transmission

Size Range: 1.25 to 250 microns or, 2.5 to 500 microns

With a LISST-25X

Total Volume Concentration in two size classes (2.5-500, and 63-500),

Sauter Mean size in two size classes, optical transmission

Mechanical and Electrical

Dimensions: 24" tall x 8.5" deep x 27" wide (61 cm x 21.6 cm x 68.6 cm)

Battery: 12V Gel cell with AC or solar powered charger

