

Enable fast decision-making and preventive analysis at the point of contamination with SX-CYT.

SX-CYT is a portable flow-cytometer module.

It provides a rapid quantification of specific bacteria or total phytoplankton. It is portable and easy to use thanks to its advanced software. It has been designed, optimized and validated measuring *E. coli*, *enterococci* and phytoplankton.



Specifications

Laser pump	Diode laser @ 488nm
Detection channels	Green channel @ 537nm / Red channel @ >610nm
Flow Cell	100 x 200 μm hydrophilic glass microchannel
Pump	Precision syringe pump
Minimum detectable particle size	0.2 μm
Sample Volume Range	0.1 to 2.5 mL
Flow rates	1 – 5 mL/min
Test time	1 min (1 mL sample @ 1 mL/min)
Data Acquisition Rate	200-500 KS/s (200 KS/s by default)
Data Management	Regulation-based result report and re-processing data functionality
Power	Internal rechargeable USB battery – 8 hours continuous operation
Dimensions	40 x 30 x 16 cm
Mass	10 Kg
IP rating lid closed/open	IP68 / IP65

SX-CYT

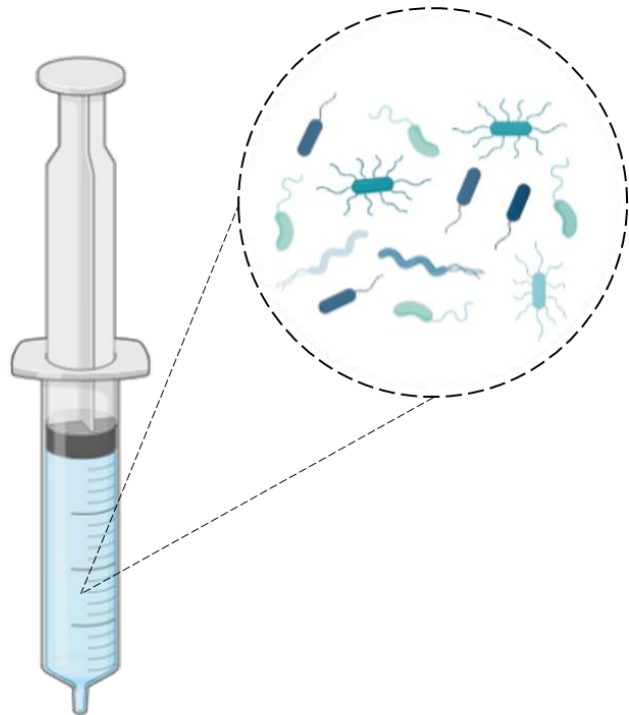
Portable Flow Cytometer

On-site specific microbiological assessment

The **SX-CYT** is designed for on-site rapid microorganism detection. It uses autofluorescence or immunofluorescence to quantify specific or nonspecific microorganism concentration. It can be combined with the **SX-CON** to enhance the limit of detection and representativeness.



Place your order at info@sixsenso.com



SX-CYT's fluid input

is the raw or concentrated sample containing the microorganisms of interest. Phytoplankton can be directly measured, for specific bacteria a preliminary labelling step is required.

Labelling methods

- Antibody assays.
- *Fluorescence In-situ Hybridization* (FISH) based RNA probes.

Rapid on-site microbiological assessment of water types for a variety of applications



PRIVATE



HOSPITALITY



BALLAST



RECREATIONAL



PHARMA



AGRICULTURE



HEALTHCARE



AQUACULTURE

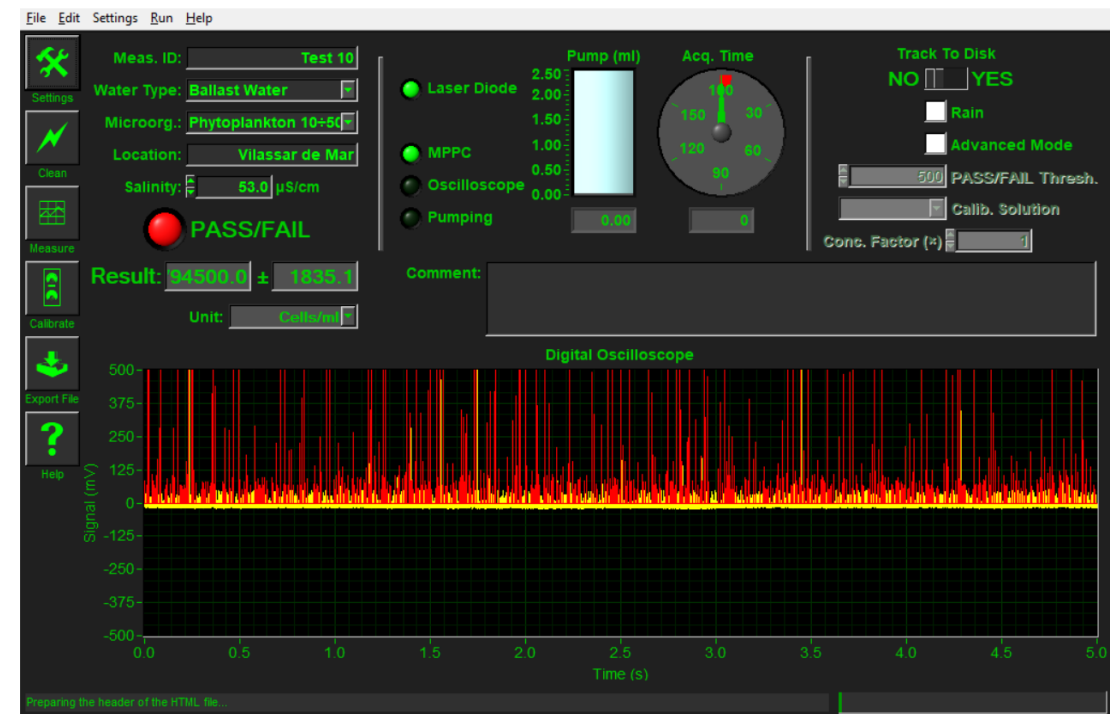


ENVIRONMENTAL



SX-CYT Software

- Real-time oscilloscope view shows counted fluorescence events.
- Ability to select ISO or regulation of your application and automatically establish contamination thresholds to give you PASS/FAIL alarm.
- Automatic microfluidic cleaning mode allows easy maintenance to avoid sample to sample cross-contamination.
- Data can be saved and stored for further analysis.



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