Product factsheet

FlowCam

Software solution
Hardware product or technological device



Description

Discover a high-throughput, automated alternative to manual microscopy.

FlowCam offers a cost-effective and rapid solution to monitor source water, oceans, reservoirs, lakes, rivers, and water treatment processes for drinking water, wastewater, and recreational activities.

Municipal water utilities monitor Cyanobacteria and other algae to prevent hazardous algal blooms (HABs), taste and odor events, as well as filter clogging organisms.

FlowCam 8000 models are highly versatile for a wide range of applications, while FlowCam Cyano functions like a flow cytometer by using laser excitation to image and identify Cyanobacteria and differentiate them from algae and other particles in aquatic samples.

Target audience

Drinking and wastewater utility operators and lab managers, microbiologists, water quality scientists.

Unique selling points

Benefits of FlowCam

- Identify and enumerate Cyanobacteria in freshwater and marine environments using high-sensitivity fluorescence detection
- Calculate algae cell counts, concentration, and biovolume
- Save time and money on drinking water testing, and eliminate customer complaints
- Automatically identify organisms by creating libraries in VisualSpreadsheet software

Technical requirements

Technical Specifications

- Particle size range: 2 µm to 1 mm; Magnification options : 20X, 10X, 4X, and 2X
- High-resolution color camera
- 2 fluorescence channels to differentiate Cyanobacteria from other algae: 633 nm laser (Chlorophyll - Ch1: 700 nm ± 10 nm, Phycocyanin - Ch2: 650 nm ± 10 nm)
- Minimum sample volume: 100 µL
- Sample flow rate: 0.05 mL/minute up to 10 mL/minute, depending on flow cell configuration
- Ease of use instrumentation & fully integrated VisualSpreadsheet software

Software data

- Operating environments:
  - Windows

Publications

https://www.fluidimaging.com/resources/bibliography

URL

https://www.fluidimaging.com/applications/aquatic/water-quality-monitoring

Technology applied by the product

- **Water Quality and Standards**

Related tags

wastewater | Early Warning System | Real time monitoring | microbiology | water pollution | drinking water

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Published in the Water Europe Marketplace