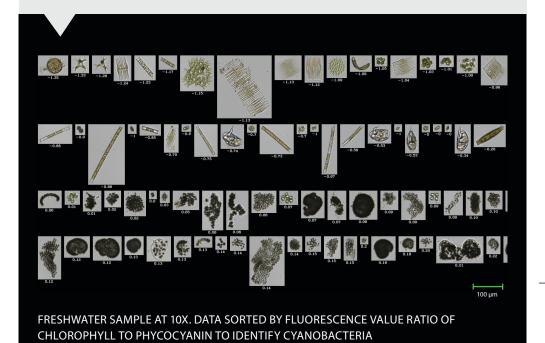
FlowCam® Cyano IMAGING PARTICLE ANALYSIS SYSTEM

Automate Detection of Cyanobacteria & Other Algae

OVERVIEW

The FlowCam® Cyano detects cyanobacteria, other algae, and particles in water samples. Using the organism's fluorescent signature to differentiate cyanobacteria from other algae, VisualSpreadsheet® further classifies taxa through image analysis.

- 2 fluorescence channels to differentiate cyanobacteria from other algae: 633 nm laser (Chlorophyll Ch1: 700 nm \pm 10 nm, Phycocyanin Ch2: 650 nm \pm 10 nm)
- Snap-in flow cell and auto-focus enable setup in under 5 minutes
- VisualSpreadsheet® software performs image analysis by measuring 40+ morphological parameters including biovolume, coloration, shape, and size to classify taxa





APPLICATIONS

Detect and identify cyanobacteria and other algae (e.g., green algae) in freshwater and marine environments

Analyze freshwater and marine samples

Calculate cell counts, concentration, and biovolume

Semi-automate classification of taxa

Manage drinking water, recreational, or ecologically significant water bodies

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FlowCam® Cyano

Automate Detection of Cyanobacteria & Other Algae

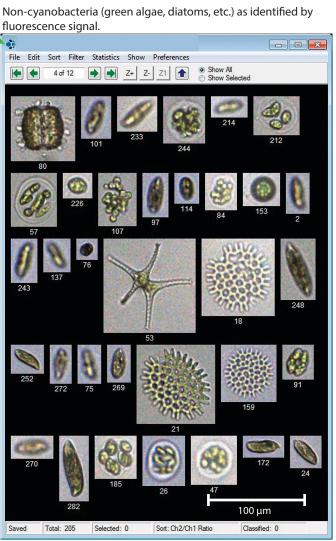
CASE STUDY

A sample containing low levels of cyanobacteria and other algae was collected from a Vermont lake in the early spring and evaluated with the FlowCam Cyano. By sorting images using the ratio of the two fluorescence signals collected for each particle, the FlowCam Cyano distinguishes the cyanobacteria from other algae as shown at right and below.

VisualSpreadsheet software can help users organize cyanobacteria and other algae by taxa so that researchers and environmental monitoring agencies can better protect and manage aquatic systems.

Non-cyanobacteria (green algae, diatoms, etc.) as identified by fluorescence signal.





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Summary Stats Filters Cumulative Stats

Efficiency

88

0.9%

Count %

30.03

Volume %

43.55

Volume

10

Particles / ml

Blue-Green Algae

Non Blue-Green

Satellite





- - X

270

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P/ML