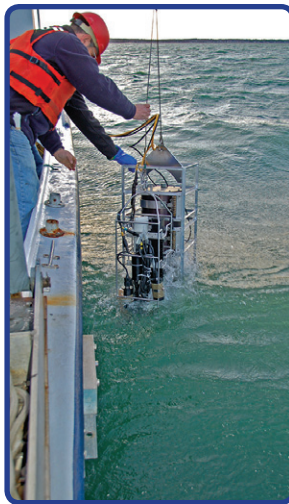


## Submersible FlowCAM® A Digital Imaging Particle Analyzer for In-Situ Water Monitoring & Analysis

For over ten years, the FlowCAM has been a staple instrument for laboratory and field monitoring of microorganisms and particles in water systems. That proven technology is now available in a Submersible model for deployment directly into a water source. Developed in collaboration with Battelle, the system allows for multiple deployment options and the ability to be integrated with other sensor packages.



Upper image shows the submersible FlowCAM being deployed from a research vessel. Left image shows remote control and monitoring of the instrument from inside the vessel. Standard VisualSpreadsheet®

software is used, eliminating retraining for experienced FlowCAM users.

### Submersible FlowCAM Applications:

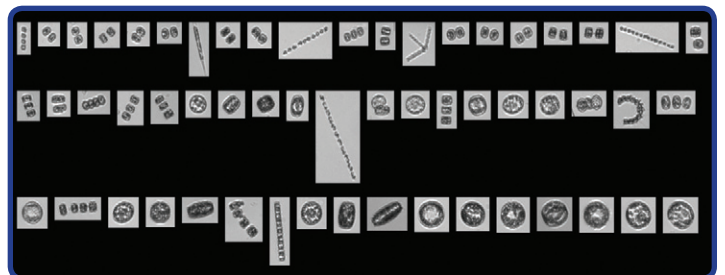
- ◇ Ocean and Limnology Research
- ◇ HAB Detection and Algal Bloom Warnings
- ◇ Detection of Taste & Odor Causing Algae in Reservoirs
- ◇ Continuous Monitoring
- ◇ Remote Monitoring

### System Features:

- ◇ Proven FlowCAM Technology
- ◇ Deployment to 200 Meters
- ◇ Particle Size Range 10 - 600µm (Customization Available)
- ◇ Remote Operation
- ◇ Two Channel Fluorescence Triggering Using 532nm Laser
- ◇ Integration With Other Sensors
- ◇ Deployment
  - On a Mooring
  - Vertical Profiler
  - AUV Housing



The Submersible FlowCAM acquires digital images of each particle passing through its flow cell along with up to 26 different measurements for each particle. VisualSpreadsheet® software allows for intuitive automated analysis of the images and data as they are acquired. Statistical pattern matching techniques enable automatic classification of taxonomic groups from libraries of known particle images. The Submersible FlowCAM yields orders of magnitude increases in speed and repeatability over manual microscope counts when doing algae counts.



Images of diatoms from initial deployment of Submersible FlowCAM in Plymouth Bay, MA, February 2010.

*Contact us today to discuss your requirements!*