

FlowCam[®] 8000 Series

Upgrade your flow imaging capabilities

Compare images and specifications between FlowCam VS
and next-generation FlowCam 8000 Series instruments



“FlowCam 8000 gives us quicker results, which allows us to be very reactive on the short time scales that are necessary for dealing with communicating risk to the public. I know the day we collected a sample what kind of algae is present.”

Dr. Danielle Wain, Lake Science Director, 7 Lakes Alliance

Model Specifications



FlowCam	8000	VS
Image Quality	Exceptional image quality through improved focusing, cameras, and flow cell design. Improved grayscale image resolution through illumination refinements.	Standard image quality
Focusing	Highly-consistent image quality through precision autofocus . Robust optics design retains focus between experiments. Easily swap between objectives using automated objective retraction and “focus memory” to instantly refocus.	Manual or semi-automated focus, manual operation to change objectives.
Flow Cell	Reusable flow cells that are easy to install and keep clean. Microfluidic channel dimensions match the camera’s field-of-view for all flow cells. Compatible with many common aqueous and organic solvents.	Disposable flow cells, camera field-of-view-matching flow cells are optional.
Camera	Maximize your sample imaging: Captures up to 120 frames per second, over double the field-of-view size.	Captures up to 22 frames per second, standard field-of-view size.
Size Range	2X: 70-1000 µm 10X: 2-100 µm 4X: 10-600 µm 20X: 2-50 µm	Same
(Optional) Fluorescence Detection	Highest fluorescent particle sensitivity through improved laser optics.	Standards fluorescent particle sensitivity
(Optional) Fluorescence Laser Wavelengths	488 nm, 532 nm, or 633 nm FlowCam Cyano uses the 633 nm laser option to identify cyanobacteria, helping users detect harmful algal blooms in drinking water analysis and other freshwater research applications.	488 nm or 532 nm
(Optional) Integrated Light Obscuration Module	Yes, included in FlowCam LO. Simultaneously collect compliance-mandated particle information and FlowCam-based particle images on a single sample using a single instrument.	Not available
Software	VisualSpreadsheet 6 allows users to customize their data displays, open and analyze multiple samples simultaneously, and create sets of replicate measurements to simplify sample-to-sample particle comparisons. Metadata tags record essential details about sample origin, collection, processing, and experimental conditions.	VisualSpreadsheet 4
EcoTaxa Compatibility	Export images and metadata in EcoTaxa-compatible formats.	Not available
(Optional) 21 CFR Part 11 Compliance Package	Customize roles, access permissions, and password policies to meet your organization’s workflow and data integrity needs with an optional 21 CFR Part 11 compliance package.	Not available
(Optional) Advanced Image Recognition	VisualAI™ software allows FlowCam 8100 and FlowCam LO users to identify images of protein aggregates and silicone oil droplets as well as images of neither particle type.	Not available
(Optional) Automated Operation	ALH for FlowCam™ allows for unattended particle analysis for up to 384 samples.	Not available
Physical Dimensions	36 x 43 x 38 cm 40% smaller benchtop footprint. Easily fits most lab spaces.	53 x 41 x 30 cm
Weight	27 kg	23 kg

Incomparable Image Quality

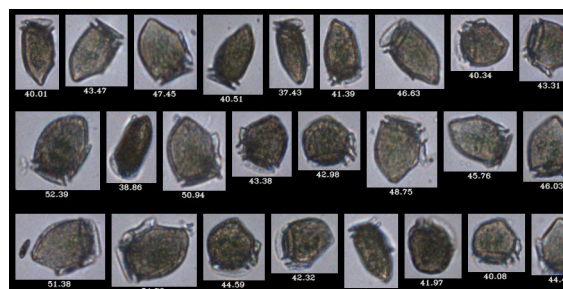
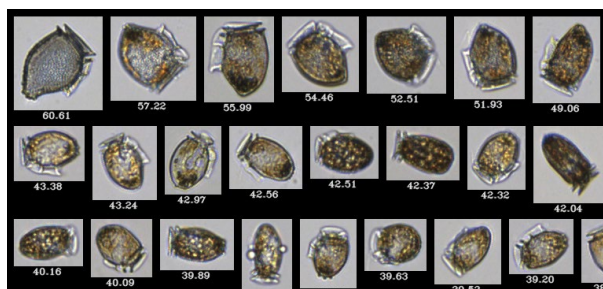
[Click on the images below to view them in more detail](#)



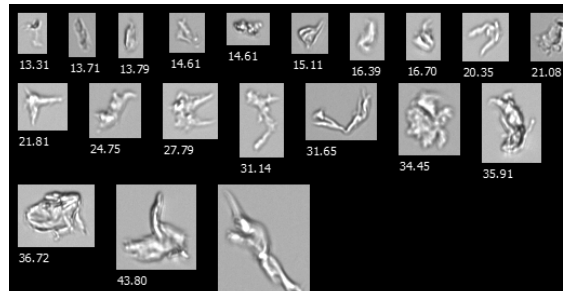
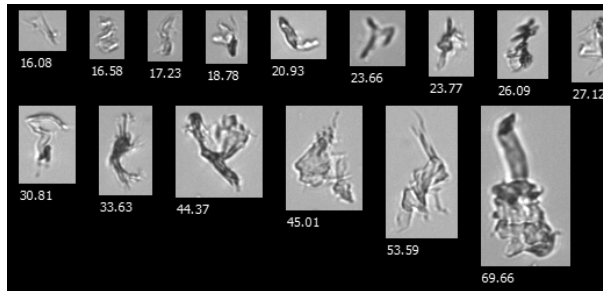
FlowCam 8000 Series



FlowCam VS



FlowCam 8000 images (left) of the dinoflagellate, *Dinophysis norvegica*, offer improved illumination inside each cell, allowing for better visualization of internal cellular components. The sharper edges on the FlowCam 8000 images enable more accurate particle size and shape measurements as well as classification.



Images of ETFE particles: abraded plastic particle standards designed to resemble subvisible protein aggregates. Due to the improved illumination, ETFE particles captured on FlowCam 8000 appear less translucent and have higher resolution. These improvements result in darker particle images with more pronounced textural detail.

Interested in learning more?

[Visit our website](#)

1

Get in touch

Tell us about your application and particle characterization needs

2

Have a conversation

We're happy to set up a call to answer your questions and discuss how you might benefit from upgrading to FlowCam 8000

3

Get more information

We'll arrange a seminar, demonstration, or send you a quote



YOKOGAWA

Yokogawa Fluid Imaging Technologies

Yokogawa Fluid Imaging Technologies manufactures industry-leading particle analysis instrumentation based on digital imaging technology. Our flagship product, FlowCam, is the first automated particle analysis instrument to use digital imaging for measuring size and shape of microscopic particles in a fluid medium. FlowCam has been deployed in over 50 countries, supporting research, development, and environmental monitoring in the life sciences, materials research, and industrial applications.

 **FlowCam**[®] | 1-207-289-3200 | www.flowcam.com | info@fluidimaging.com