

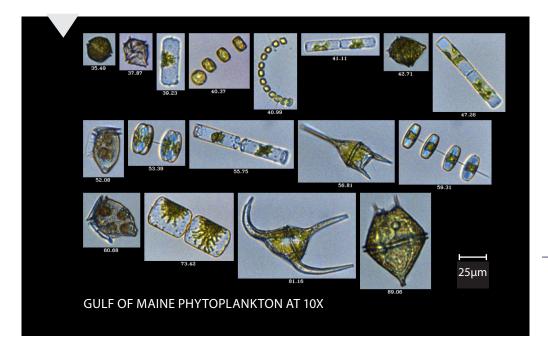
IMAGING PARTICLE ANALYSIS SYSTEM

Flow Imaging Microscopy for Education and Academic Research

OVERVIEW

Since its introduction in 1999, the FlowCam® has become a valued instrument for microbial ecology research, providing aquatic researchers a rapid method for analyzing plankton populations. More than 500 FlowCams are used in 50+ countries to identify, count, and measure phytoplankton, zooplankton, and other microscopic particles. The new FlowCam 5000, an affordable and streamlined flow imaging microscope, was designed to make semi-automated plankton analysis accessible to educational settings.

- Our most affordable instrument
- Calculate cell count, concentration, and biovolume for all organisms
- Measure and count particles sized 3 μm to 300 μm
- Includes VisualSpreadsheet software which measures 40+ morphological parameters including color metrics, shape, and size used to semi-automatically classify taxa





APPLICATIONS

Identify and enumerate phytoplankton and microzooplankton

+

Monitor marine and fresh water Harmful Algal Blooms (HABs)

+

Analyze sediment: tephra particles, marine foraminifera, paleolimnology

+

Monitor contamination in algae cultures

+

Track biovolume, concentration, cell size distribution

1 +1-207-289-3200

contact@fluidimaging.com

www.fluidimaging.com

FlowCam® 5000

FOR EDUCATION AND ACADEMIC RESEARCH

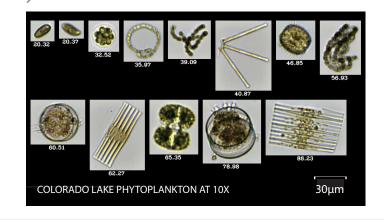
FlowCam 5000	
Dimensions	17.3" wide x 10.0" deep x 10.5" tall
Particle Size Range	3 μm to 1 mm (actual size range determined by magnification selected)
Magnification & Flow Cells	Choose one configuration per instrument: 20X (~200X magnification), flow cell depth: 50 µm extruded 10X (~100X magnification), flow cell depth: 100 µm extruded 4X (~40X magnification), flow cell depth: 300 µm extruded
Focus System	Manual Focus
Sample Processing Capability	Up to 1 mL/minute
Measured Parameters	Basic Shape Parameters: Area, Aspect Ratio (width/length), Area Based Diameter (ABD), Equivalent Spherical Diameter (ESD), Length, Volume (ABD-based), Volume (ESD-based), Width, 3 Biovolume Measurements
	Advanced Morphology Parameters: Area (Filled), Circle Fit, Circularity, Circularity (Hu), Compactness, Convex Perimeter, Convexity, Elongation, Fiber Curl, Fiber Straightness, Geodesic Aspect Ratio, Geodesic Length, Geodesic Thickness, Perimeter, Roughness, Symmetry
	Gray Scale and Color Measurements: Average Blue, Average Green, Average Red, Edge Gradient, Intensity, Blue/Green Ratio, Red/Blue Ratio, Red/Green Ratio, Edge Gradient, Intensity, Sigma Intensity, Sum Intensity, Transparency
Camera	High resolution (1920x1200 pixels) CMOS. Monochrome and color available
Frame Rate	Shutters up to 60 frames per second
Fluidics	Micro syringe pump with multiple sizes to optimize flow rates: 0.5 mL, 1 mL, 5 mL
Data Acquisition Method	Auto Imaging
Fluorescence Emission & Detection	Available only in FlowCam 8400 and FlowCam Cyano
VisualSpreadsheet® Software	Interactive, image-based analytical software that generates 40+ particle measurements per cell. Filter, sort, and classify data based on user-defined criteria. Create libraries to automate classification for future sample analysis. Multi-user licenses available.

Will FlowCam 5000 solve your particle analysis needs?

Contact us for more information or to arrange for a demo or sample analysis.



Distributed by: Kenelec Scientific Pty Ltd 1300 73 22 33 sales@kenelec.com.au www.kenelec.com.au





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www.fluidimaging.com