

Particle Analysis Streamlined

OVERVIEW

The FlowCam 5000 is Yokogawa Fluid Imaging Technologies' most affordable instrument. It is streamlined for rapid data acquisition and analysis. Quickly and easily image, measure, analyze, and count microparticles suspended in a fluid medium.

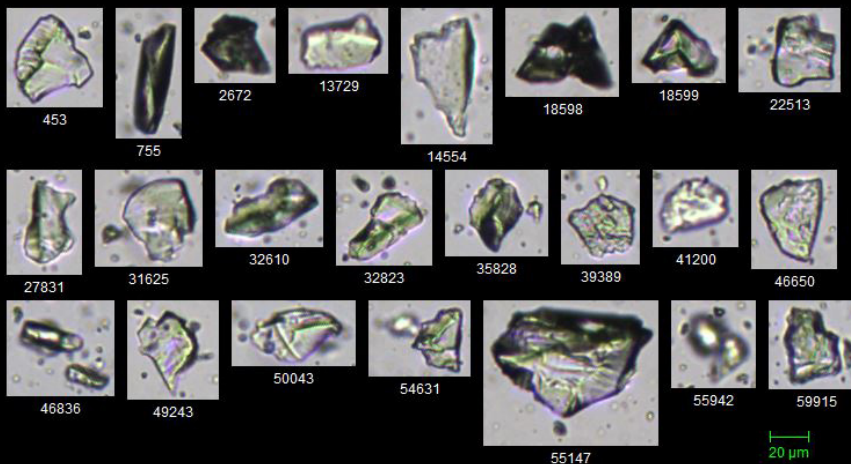
Introduced to the market in 2019, the FlowCam 5000's simplified design makes it accessible across industries and ensures that it is straightforward to implement into any lab setting.

- Measure and count particles sized 3 µm to 1 mm
- Go beyond size and shape of your particles with 40+ morphological measurements
- Experience superior image quality and image-based measurements backed by quantitative data
- Analyze tens of thousands of particles per minute
- Save time and money with our most affordable instrument to date



INDUSTRY APPLICATIONS

- Food and Beverage
- +
- Cosmetics and Powders
- +
- Paints, Coatings, and Inks
- +
- Plastics, Polymers, Rubbers, and Adhesives
- +
- Chemicals and Abrasives
- +
- Oil and Gas
- +
- Column Packing / Manufactured Beads



SILICA MINERAL PARTICLES AT 10X

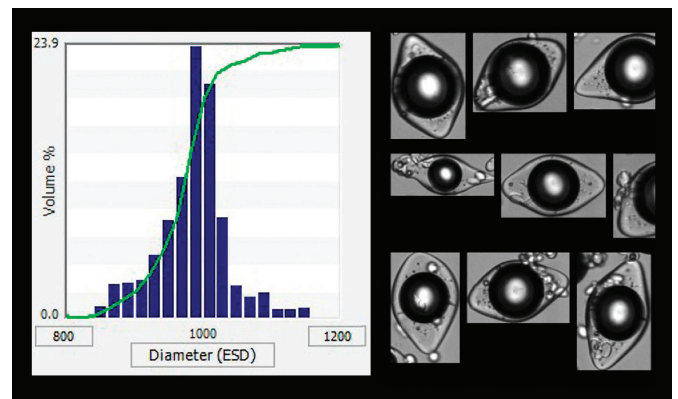
PARTICLE ANALYSIS STREAMLINED

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, 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.

REQUEST A FREE SAMPLE ANALYSIS

Send us your sample and we will provide:

- A web-based, interactive presentation of results
- Histograms and scattergrams showing size and distribution of particles
- A Microsoft Excel spreadsheet with measurement data, including count, length, width, and diameter
- Digital images of the cells and particles



ENCAPSULATED FLAVORS ANALYZED BY THE FLOWCAM