

### Particle Analysis Streamlined

#### OVERVIEW

Fluid Imaging Technologies has announced the release of a new streamlined and affordable instrument. The FlowCam® 5000's simplified design makes it accessible across industries and ensures that it is straightforward to implement into any lab setting. Since its introduction in 1999, the FlowCam has been valued worldwide as a tool to analyze subvisible particles with diameters ranging from 3 µm to 1 mm.

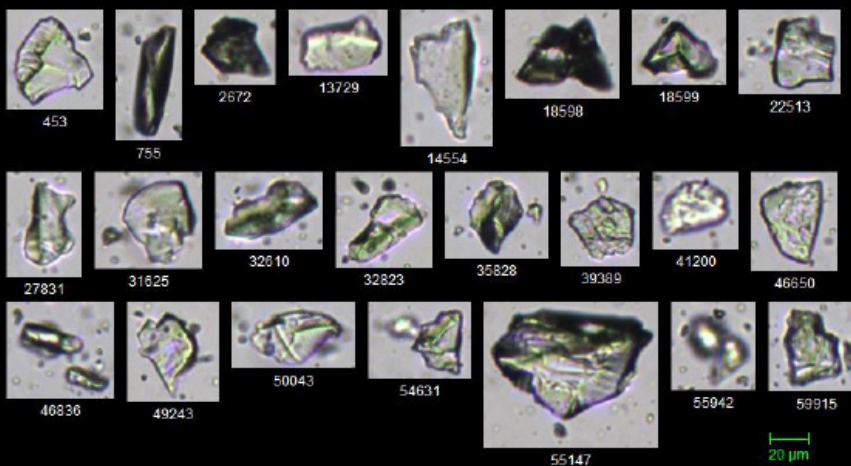
With the new FlowCam 5000 you can:

- 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



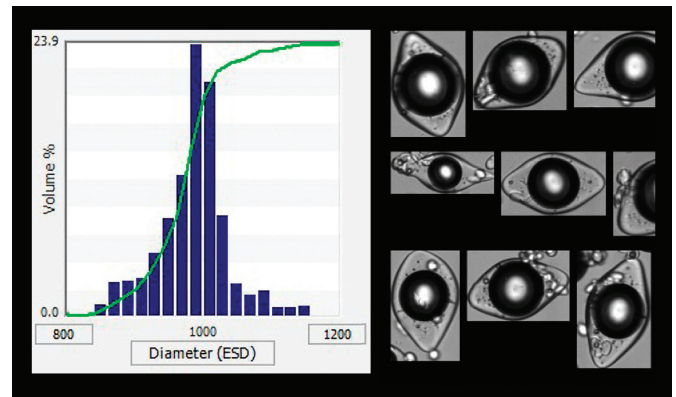
SILICA MINERAL PARTICLES AT 10X

| 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:<br>20X (~200X magnification), flow cell depth option: 50 µm extruded, and 100 µm extruded<br>10X (~100X magnification), flow cell depth option: 100 µm extruded<br>4X (~40X magnification), flow cell depth option: 300 µm extruded, and 600 µm extruded<br>2X (~20X magnification), flow cell depth option: 600 µm extruded, and 1000 µm extruded  |
| Focus System                      | Manual Focus   |
| Sample Processing Capability      | 0.05 mL/minute at 20X and up to 50 mL/minute at 2X   |
| 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<br><br>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<br><br>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, 12.5 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