

Nano-Flow Imaging[®]

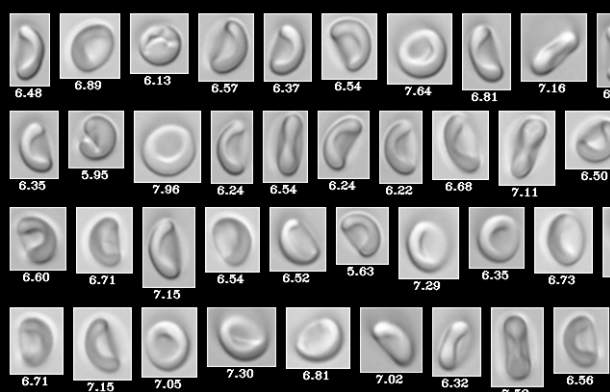
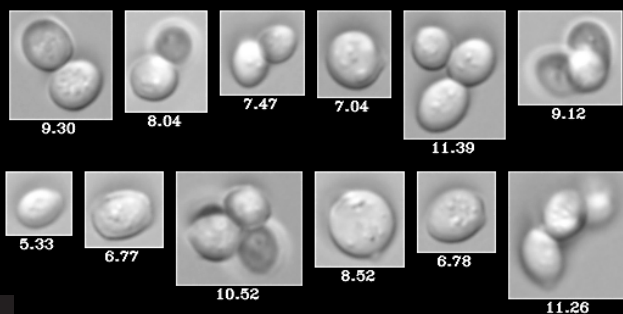
OVERVIEW

The FlowCam Nano features a patented oil immersion, flow imaging microscope paired with a 40x objective and our industry-leading image analysis software VisualSpreadsheet[®] to provide you with highly resolved images never before available for particles in this size range.

- Image and analyze particles as small as 300 nm
- Distinguish between aggregates and single particles measuring the same size
- Verify particle size and sample uniformity
- Use morphological data to identify the structure and nature of extrinsic particles and improve product quality



Increased image resolution provides highly detailed images, which serve as a basis for more accurate measurements.



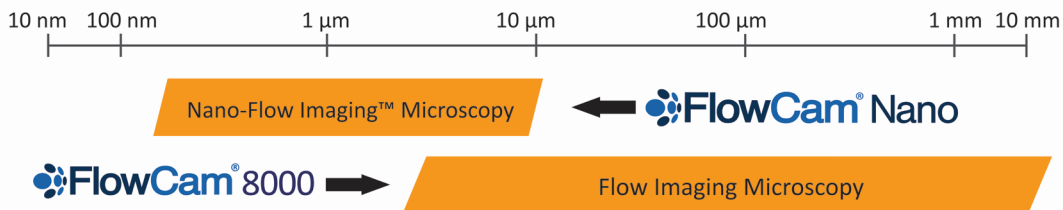
HIGH RESOLUTION IMAGES OF YEAST (LEFT) AND BLOOD CELLS (RIGHT) AS CAPTURED BY THE FLOWCAM NANO. DIAMETER (μm) OF EACH PARTICLE IS NOTED BENEATH EACH IMAGE.

FLOWCAM® NANO Nano-Flow Imaging™ Analysis

FlowCam Nano Specifications

Particle Size Range	300 nm to 10 µm
Magnification & Flow Cell	40X magnification with a 50 µm flow cell
Method	Oil immersion flow microscopy
Minimum Sample Volume	20 µL
Measured Parameters	<p>Basic shape parameters: Area, Aspect Ratio (width/length), Area Based Diameter (ABD), Equivalent Spherical Diameter (ESD), Length, Volume (ESD-based), Width, 3 Biovolume Measurements</p> <p>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</p> <p>Gray Scale Measurements: Edge Gradient, Intensity, Sigma Intensity, Sum Intensity, Transparency</p>
Fluidics	Micro syringe pump with 0.5 mL
Numerical Aperature	1.4 NA
Camera's Field of View	150 µm height x 200 µm width

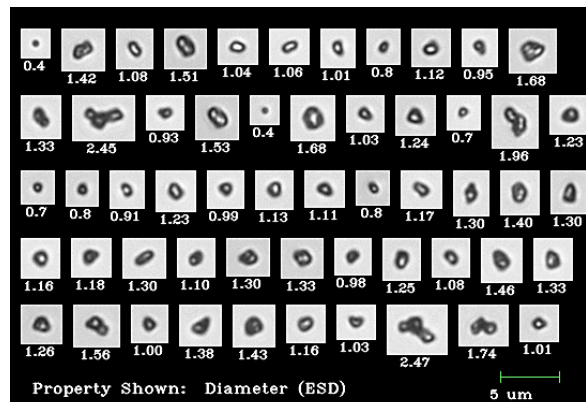
Extending visual particle analysis below 1 µm



Request a sample analysis

Send us your sample and we will provide:

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



Diamond abrasive particles as imaged by the FlowCam Nano