

FlowCam® Nano

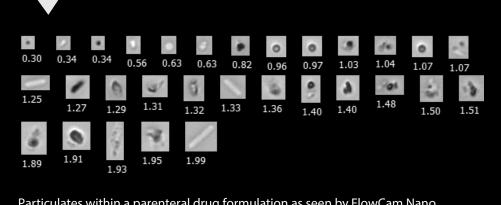
Next Generation Submicron Particle Imaging

OVERVIEW

FlowCam Nano features patented oil-immersion, flow imaging technology paired with our industry-leading image analysis software VisualSpreadsheet® to provide the most comprehensive particle analysis research and development tool for protein formulations and nano drug delivery systems, bioprocess monitoring, and materials characterization.

FlowCam Nano represents a leap forward in technology with the highest-resolution images of submicron particles available on the market today. In addition, FlowCam Nano offers streamlined autofocus technology for ease of use.

- Image and analyze particles ranging in size from 300 nm to 2 µm
- Obtain relative quantifications of intrinsic, extrinsic, and inherent particles in parenteral drugs
- Use morphological data to identify the structure and nature of contaminants and improve product development



Particulates within a parenteral drug formulation as seen by FlowCam Nano. The diameter (µm) of each particle is noted beneath each image. Using VIsualSpreadsheet software, images can be analyzed and sorted by 40+ parameters, including morphological characteristics.



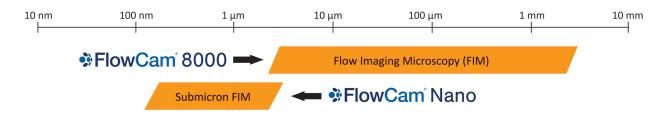
APPLICATIONS

- Formulation development
- Biopharmaceutical QA/QC
- Biomedical research
- Gene therapy aggregate monitoring
- **Bioprocessing**
- Materials characterization

FLOWCAM® NANO

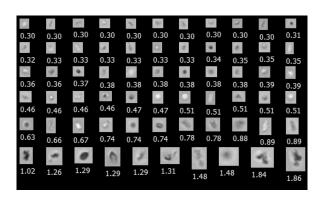
Specifications	
Method	Flow imaging microscopy with oil immersion
Particle Size Range	300 nm to 2 μm
Sample Volume	Minimum volume: 50 μL
Magnification & Flow Cell	40X magnification with 60 μm flow cell
Camera	High Resolution (1440 x 1080 pixels) CMOS sensor, monochrome, up to 130 frames per second
Flow Rate	up to 20 μL/minute
Fluidics	Micro-syringe pump with 250 μL syringe
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 Measurements: Edge Gradient, Intensity, Sigma Intensity, Sum Intensity, Transparency

Extending particle imaging below 2 µm

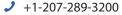


Will FlowCam Nano solve your particle analysis needs?

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







www.fluidimaging.com