LUM

The NEXT STEP® in Dispersion Analysis

Multi-Wavelength Separation Analyser

LUMiReader® PSA

Real-Time Dispersion Stability & Particle Size Distribution

Particle sizing according to ISO 13317

Benefits

- High-end analyser for quality control, process monitoring and R & D
- Direct, fast and objective characterization of any separation phenomena
- Analysis under original conditions
- Accelerated phase separation by patented inclination mode at gravity
- No moving parts
- Endless monitoring of sample behaviour for long-time storage information
- For concentrated and diluted suspensions and emulsions
- different cell types and customizing options to fit your application
- Easy operation, comprehensive information

Velocity Distribution Qv(v), qv(v)

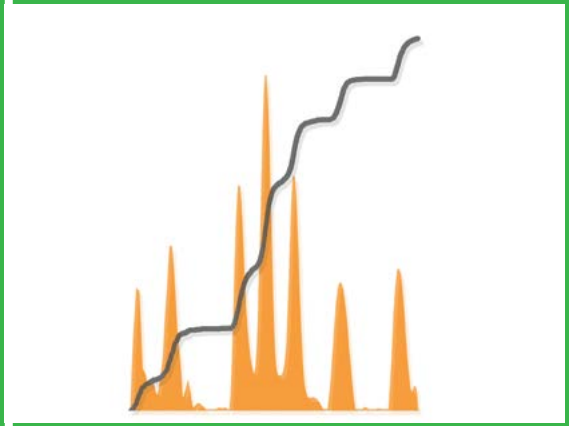
- Direct measurement no calibration / no material properties
- Always available - fast information for quality control
- Qualitative information about particle size and polydispersity

Intensity Weighted Particle Size Distribution QInt(x), qInt(x)

- Quantitative information about particle size distribution

Volume Weighted Particle Size Distribution Q3(x), q3(x)

- Quantitative information about particle size and volume fraction of each class
- Conversion into mass or number distribution



Specifications

- Multiple light sources with different wavelengths
- Advanced optics, variable light intensity
- Temperature control from room temperature + 4K to 60° C, ±1 K
- Measuring time 1 sec - months
- Append measurement option for long-time monitoring
- Sample volume 0.5 ml - 4 ml (depending on cell type)
- Sample concentration 0.00015 Vol% - 75 Vol%
- Particle size: 500 nm - hundreds of µm
- PC controlled operation, USB interface
- Conformity: ISO/TR 13097; ISO 13317; CFR 21 Part 11

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