Effective Optical Systems (EOS)

analytik

Classizer™ ONE | Multi-Parametric Particle Analysis

A cutting-edge particle analysis platform using the patented **Single Particle Extinction and Scattering (SPES)** method for the **analysis, characterisation,** and measurement of **particle size distributions** of hetergenous particle mixes.
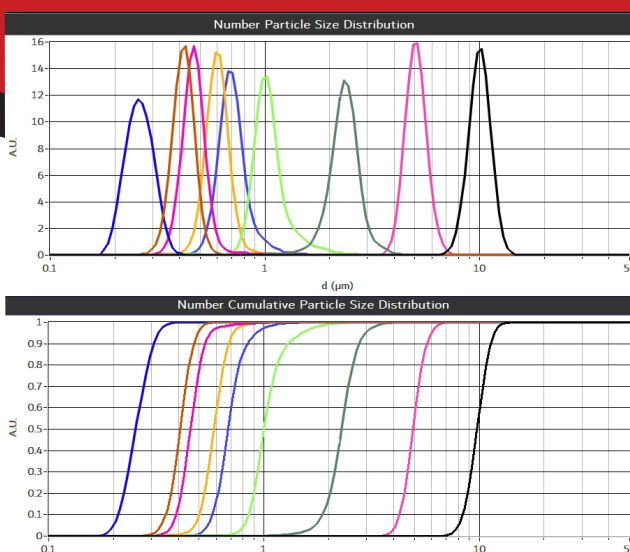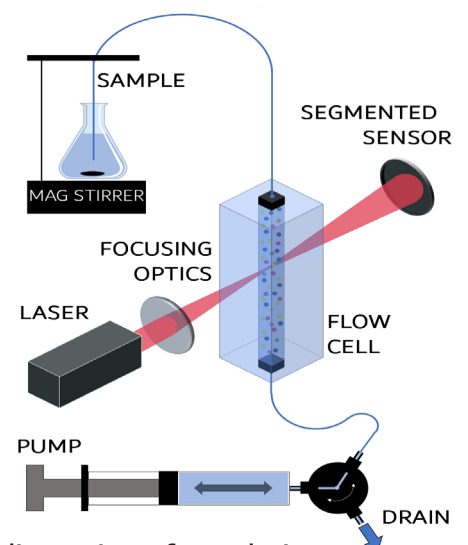

Application Areas

- **Gold & Silver Nanoparticles**
- **Liposomes & Emulsions**
- **Encapsulations**
- **Drug Delivery**
- **Pigments & Inks**
- **Environmental Studies**
- **Abrasives & Slurries**
- **Fine Chemicals**
- **Shelf-life optimisation**

Performance Advantages

✓ **Fully resolved overlapping Particle Size Distributions** for mixtures containing different particle materials

✓ **Number concentration** of each particle type characterised

✓ **High resolution particle size** across a wide range (**0.1 to 20 microns)** 10% - 20% resolution (>70nm for metals)

✓ **Particle composition** & **particle agglomerations** identification

✓ **Characterise internal particle loading & external particle coating**

✓ **Real time statistical analysis** & customisable system tailored to application

✓ **Fast measurements** (typically done in minutes) or continuous mode

(Right)
Single Particle Extinction and Scattering (SPES) Diagram

(Left)
Overlapping Resolved Particle Size Distributions

Classizer ™ ONE- Used for research, tailored particle development, dispersions formulations, and quality control in life sciences, nutraceuticals, cosmetics, pigments, inks, cements, abrasives, agrochemicals & environmental sciences.