

## Multiwavelength Separation Analyser LUMIREADER® PSA

UMiRead

# Going places the naked eye never could.

Micro particle sizing | Separation | Stability | Density | Extinction

## Benefits

- Immediately see and understand even complex
   dispersion behaviour
- Measure stability directly
- Reduce separation analysis time up to 10-fold
- Get velocity distribution even for fast-settling particles
- Obtain volume PSD without having to know refractive index
- Calculate density of your dispersed particles
- Investigate temperature effects up to 60 °C
- Differentiate between the various instability mechanisms
- Handle any dispersing media: water, oils, organic solvents
- Uses disposable cells, customizable
- Easy to use

## **Specifications**

- Multiple light sources with different wavelengths
- Advanced optics, variable light intensity
- Temperature control from room temperature + 4K to 60° C
- 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; ASTM D7827, CFR 21 Part 11

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The NEXT STEP® in Dispersion Analysis & Materials Testing

Distributed by:

### - Direct measurement no calibration /

- no material properties
- Always available fast information

Velocity Distribution Qv(v), qv(v)

- for quality control
- Qualitative information about particle size and polydispersity

Extinction 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



