

Particle Size Analyzer -DLS

Typical applications of dynamic light scattering analyzer are the characterization of particles, emulsions or molecules, which have been dispersed or dissolved in a liquid. Determination of the sizes of metallic nanoparticles or quantum dots and analysis of estimate population of aggregates large and small, for small molecules are two application of this product.

In dynamic light scattering compared to static light scattering, not the angle dependent, but the timely variation of the scattering intensity is utilized for the particle size determination. DLS can be performed on a time scale measured in minutes rather than hours. The importance of the technique lies in its non-invasive character.

The intensity fluctuations are a consequence of particle motion, and the measured property in the correlation analysis is the distribution of diffusion coefficients.



Application

- Nanotechnology
- Biotechnology
- Ceramics
- Food
- Medicine / pharmaceuticals
- Pigments
- Semi-conductor (CMP), ...

Features:

- Extremely wide measurement range from 30 nm - 10 µm
- Samples ranging from low ppm-order concentrations to 40 Vol%
- Flexible optics with measurements at 90° or 173°
- Easy operation, no cleaning or maintenance required
- Determination of molecular weight
- Rapid analysis
- Simple, user friendly and intuitive software
- Highest resolution and precision
- Compact design allows for installation in any laboratory environment
- Ergonomic design for easy operation



SPECIFICATION	
Particle Size Measurement Range	30 nm – 10 µm
Molecular Weight Measurement	✓
Zeta Potential Measurement	Capable of upgrading
Laser Power	50 mW
Laser Type	NdYAG
Laser Wave Length	532 nm
Detector	PMT
Detector Number	1
Specimen Holder	1
Touch Display	✓
Internal PC	✓
PC Connection	✓
Accessory	✓