

## Nanosizer for single particle measurement

Supplier: Malvern

Model: Zetasizer Nano ZS

### Description:

The Zetasizer Nano ZS is a high performance two angle particle and molecular size analyzer for the enhanced detection of aggregates and measurement of small or dilute samples, and samples at very low or high concentration using dynamic light scattering with 'NIBS' optics. The ZSP also incorporates a zeta potential analyzer that uses electrophoretic light scattering for particles, molecules and surfaces, and a molecular weight analyzer using static light scattering.

### Specifications:

#### Particle size and molecular size

- **Measurement range:** 0.3nm – 10.0 microns\* (diameter).
- **Measurement principle:** Dynamic Light Scattering
- **Minimum sample volume:**12µL
- **Accuracy:** Better than +/-2% on NIST traceable latex standards
- **Precision / Repeatability:** Better than +/-2% on NIST traceable latex standards
- **Sensitivity:** 0.1mg/mL (Lysozyme)

#### Zeta potential (and optional Protein Mobility)

- **Measurement range:**3.8nm – 100 microns (diameter)\*
- **Measurement principle:**Electrophoretic Light Scattering
- **Minimum sample volume:**150µL (20µL using diffusion barrier method)
- **Accuracy:**0.12µm.cm/V.s for aqueous systems using NIST SRM1980 standard reference material
- **Sensitivity:**10mg/mL (BSA).

