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PARTICLE METRIX develops and distributes particle analysis systems for the determination of charge and size of aqueous dispersions. With these analyzers an overall size range from 0.8 nm up to 100 µm is covered. Depending on the sample and the analysis task, concentrations from single particles up to 40% can be presented to the instruments. Both described instruments offer size distributions. The focus of the innovation lies in improving proven principles for routine laboratory work.

ZetaView[®] is a self focussing electrophoresis laser scattering video microscope. Based on first principles, it serves at the same time as a reference instrument for zeta potential and as a routine tool to measure zeta potential distributions.

With the StabiSizer[®] a combination of charge and size measurement in combination with two integrated titrators is offered to allow efficient particle charge titrations. By varying either the pH or the ionic or non-ionic macromolecular environment the user gets comprehensive information about the behaviour of particulate systems. With this method it is possible to identify stable and unstable regions of the dispersion or macromolecular solution. Another interesting application is to determine the amount of functional end groups at the particles surface. The method offers a door for new inventions whilst being very effective. Titrations with the particle interface potential as the sensing signal and pH or volume consumption of polyelectrolyte solutions as x-variable are done in 5 minutes.

Both methods, ZetaView[®] and StabiSizer[®], offer an ideal combination to characterise the electrostatic behaviour of macromolecular solutions and dispersions.

PARTICLE METRIX is ISO 9001 certified and guarantees for the high quality and excellence of its products.