

Press Release

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SALD-2201

Multitalent in particle measurement technology

**SALD-2201 unifies broad measuring ranges with high flexibility /
Results available within a few seconds /
Accessories expand application diversity**

Shimadzu, one of the world leaders in analytical instrumentation, addresses the needs of various industries with its broad range of materials testing technologies. This product segment includes static and dynamic universal testing machines and hardness testers as well as capillary rheometers and high-speed cameras. One of the multitalents particularly suited for particle analysis is the SALD-2201, a system that combines wide measuring range with a high level of flexibility.

The SALD-2201 can measure dry powders, creams, dilute particle solutions or micro-bubbles equally well. The instrument measures the particle size distribution in the upper micrometer range down to the lower nanometer range, even as combined solutions of both ranges. A unique design consisting of a single light source and a single optical system with a large detector field enables seamless measurement over the entire measuring range. Loss of accuracy due to inconvenient measuring range adjustment is thereby avoided.

The SALD-2201 works according to the principle of static laser diffraction (Mie solution, Fraunhofer approximation). The measuring range spans from 30 nm to 1000 μm . Measurements are carried out

continuously and results are available within a few seconds. This enables real-time monitoring of particle size distribution changes.

Numerous accessories such as the wet dispersion unit for low concentration particle solutions in aqueous as well as most organic solutions extend the application possibilities of the SALD-2201. A dry dispersion unit is available for particle size distribution measurement of pulverized particles. The HC-22 kit is recommended for the measurement of highly concentrated particle solutions such as pastes, color dispersions or ointments. Modification and installation of units and kits is straightforward.



Figure 1: Multitalent in particle measurement technology: the SALD-2201

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