

NanoScan SMPS™ Nanoparticle Sizer

Model 3910

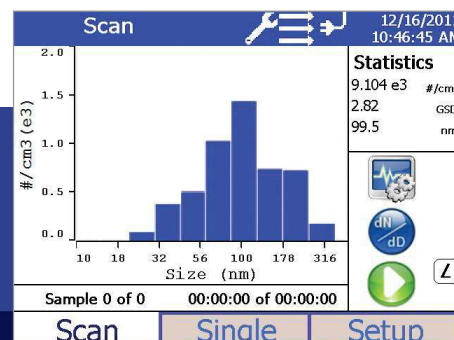
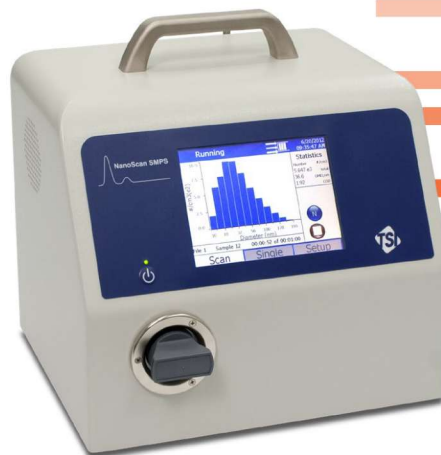
Affordable, portable nanoparticle sizer for particles down to 10 nm.

TSI's NanoScan SMPS™ opens the door to routine nanoparticle sizing measurements for everyone. This revolutionary sizer fits a TSI® SMPS™ spectrometer into an affordable, portable package that is about the size of a basketball. Easy to use, lightweight, and battery-powered, the NanoScan SMPS™ enables investigators to assess airborne nanoparticle concentration and size in workplaces, schools, hospitals, without complicated setups. Size distributions are measured from down to 10 nm for concentrations up to 1,000,000 particles/cm³. Derived from TSI core technologies, the NanoScan SMPS is an innovative, cost-effective solution for real-time nanoparticle size measurements.

Data collection begins with a touch of the instrument display - no need for a dedicated computer to set up the instrument or save data. The user interface is intuitive and easy for new users to operate. The NanoScan SMPS displays real-time number, surface area, or mass size distributions, concentrations, and statistics. From the front panel, users can program start time, number of samples, and other parameters. A full suite of instrument diagnostic data gives the user security and ensures data quality.

In addition to nanoparticle size distributions, the NanoScan SMPS can collect second-by-second concentration data at a single mobility diameter. For example, if the nanoparticle source of concern generates 50 nm particles, it is possible to easily monitor 50 nm mobility diameter with 1 second time resolution to keep a real-time record of concentration levels.

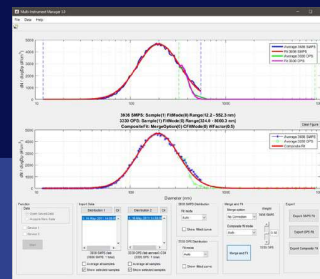
Combine the NanoScan SMPS and the Optical Particle Sizer 3330 to measure three orders of size magnitude from 10 nm to 10 µm using Multi-Instrument Manager (MIM) software.



Screen shot of NanoScan SMPS during nanoparticle size distribution measurement.

NanoScan SMPS™ Accessories (available separately)

Specify	Description
3062	Diffusion Dryer
3062-NC	Diffusion Dryer (desiccant does not contain cobalt)



Screenshot of Multi-Instrument Manager (MIM) Software