



LT 2200

Intelligent Particle Size Analyzer

LT2200 A new generation of intelligent particle sizing system

Linkoptik technical team has more than 20 years' experience in particle characterization, application and development. We developed the first commercial laser particle size analyzer in China and have a fantastic reputation throughout the world. LT2200 is a new generation of intelligent laser particle size analyzer with high data acquisition rate based on many years of scientific research. LT2200 has many excellent specifications breaking through the limitations and bottlenecks of existing particle size analysis. It has become a milestone in the particle size analyzer market.

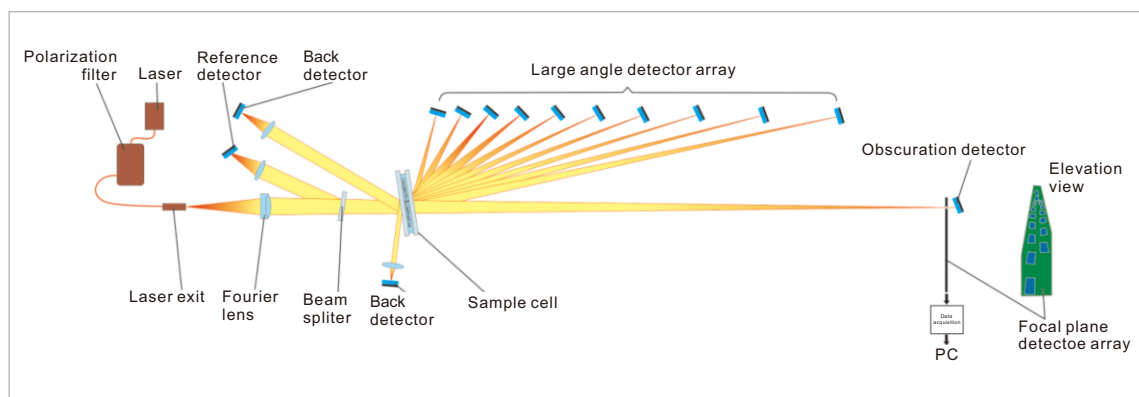
LT2200 Integrated with multiple innovations:

- ◆ Spatial filter and polarization combined with fibre technology
- ◆ Correction of anomalous change of airy disk (ACAD) in diffraction
- ◆ Tilted cell windows with correction of total-reflection
- ◆ Grilling large angle detector array
- ◆ Optimization of inversion algorithm and self-adaptive technique
- ◆ Continuing dispersant level sensing and control



LT2200 Optical system also featured with the followings:

- ◆ Fully comply with ISO13320 standard
- ◆ Unique optical path configuration, large continuous physical detection angle, no dead detection zone
- ◆ Improved inversion algorithm with high resolution and sensitivity
- ◆ Size range $0.02\mu\text{m}$ -- $2200\mu\text{m}$ with no need for lens change
- ◆ Data acquisition rate up to 20kHz
- ◆ Solid-state laser light source with automatic temperature stabilizing system
- ◆ Spatial filter and polarization with fibre technique, no pinhole needed



Principle diagram

Sample Dispersion Unit Automatic intelligent dry and wet dispersion system

Linkoptik technical team is well aware of the mechanism of particle dispersion and the importance of the sample dispersion system in the process of particle size analysis. The Hydrolink Wet Dispersion and Aerolink Dry Dispersion System have been featured prominently in intelligent change of the dispersing energy and used for fully dispersion and representative delivery of a variety of samples, regular or irregular, fragile or agglomerated, with different densities and size distribution.

Hydrolink SE Key features :

- ◆ Standard volume maximum 1000ml
- ◆ Powerful impeller pump and dual-stirrer to ensure uniform dispersion and delivery of wide distribution or high-density samples
- ◆ Bubble automatic elimination technology
- ◆ High efficiency ultrasonic dispersion unit
- ◆ Continuous and adjustable ultrasonic power
- ◆ Suspended liquid level sensing and continuous liquid volume control technology
- ◆ Automatic sample processing and cleaning
- ◆ SOP control and multi-user SOP sharing



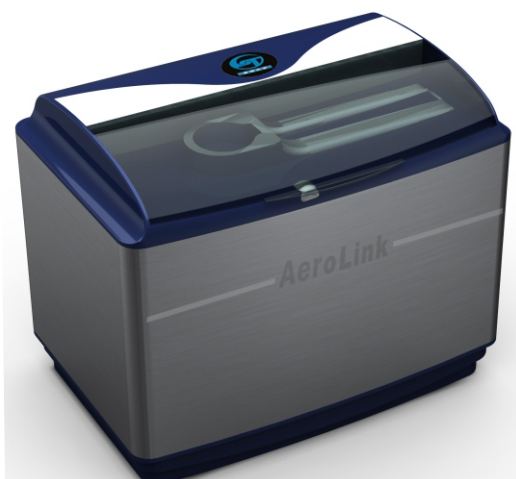
Hydrolink SV Key features :

- ◆ The minimum sample volume is 40ml
- ◆ Stainless steel design, Chemically compatible with a wide choice of organic and inorganic dispersants
- ◆ Built-in ultrasonic unit is optional
- ◆ Controlled by SOP or control panel integrated



Aerolink Key features :

- ◆ Based on multiple dispersion mechanism, automatically dispersing energy input, to achieve effective dispersion of diverse samples
- ◆ Automatic control of air pressure, 0 bar-4.5bar adjustable
- ◆ Air pressure control accuracy +/-0.1bar
- ◆ Sample feed rate controlled by SOP with precision better than 1%
- ◆ Venturi dispersion unit with variable energy, suitable for all types of samples
- ◆ Sample tray with continuously adjustable gap
- ◆ Automatic real-time vacuum detection to avoid contamination of the sample cell
- ◆ Straight-through sample path to reduce sample adherence



LT2200 Particle Size Analyzer Specifications

Item	Specification
Measurement principle	Laser light scattering
Analysis	Full Mie theory and Fraunhofer scattering
Size range	0.02 μ m -- 2200 μ m, No need for lens change and calibration
Detection system	Super large angle of detector array with area compensation and gridded holder, no dead detection zone within angular range, Plus back-scattering detector
Light source	Max. 20mW, 638nm Solid-state laser with thermostat integrated
Spatial filter	OF Filter with polarization
Optical alignment system	Smart rapid align system with full automation
Typical measurement time	Less than 10s
Data acquisition rate	20kHz
Accuracy	Better than 0.6% (The mean size of NIST latex standard)
Repeatability	Better than 0.5% (Sample and sample preparation dependent)
Laser class	Class 1
Recommended computer specification	Intel Core i5 processor, 4GB RAM, 250GB HD and wide screen monitor as well as keyboard and mouse
Computer interface	USB 2.0 or above
Operating system	Windows 7 professional or Windows 10 professional
Operational temperature	5°C-40°C
Operational humidity	10% - 85% RH (Non-condensing))
Supply voltage	220VAC, 50/ 60Hz
Optical system weight	31kg
Optical system dimensions	670mm x275mm x320mm

Linkoptik Instruments Co., Ltd.

Add: 3F,Bay B-5,Tech Bay,No.1 JinTang Road, Hi-tech Zone, Zhuhai 519000, China

Tel: +86 756 8629611 Fax: +86 756 8629811

Shanghai office and applications lab

Add: Unit 401, Building B, No.7001 ZhongChun Road, Minhang Zone, Shanghai

24-hour hotline: 400 900 3950 Email: sale@linkoptik.com



For more information, please visit www.linkoptik.com

