

Laser Particle Size Analyzer

Nx Series

Size 300, Size 2000

Making world-class products



Laser Particle Analyzer Size 300

Laser particle size analyzer Size 300 is a fully automatic cost effective and efficient particle size analyzer capable of measuring suspension, emulsion and powders. It uses laser diffraction measurement principle for measuring over 0.1 μm to 300 μm particle size range for wet dispersion and is also well equipped with highly sensitive ring photoelectric detector which improves test accuracy.

Features

- Comprehensive laser diffraction particle size measurement principle.
- Highly sensitive ring photoelectric detector which improves the test accuracy
- Fully automatic software control
- Capable of measuring suspensions, emulsions and powders
- Built in dispersing unit consisting carefully aligned stirring set up, ultrasonic dispersing unit and the sample circulating pipes
- Built-in design effectively prevents the inhomogeneous dispersion and sedimentation of big particles
- Optional small capacity sample chamber which helps with measuring expensive/precious samples or samples difficult to be dispersed within the medium
- Analysis software uses a unique unconstrained data fitting technique developed to obtain data of unknown size distribution
- Manual and automatic mode of operation makes it user friendly



Applications

It finds wide application in cement industry, ceramics environmental and soil applications, pharmaceutical industry. It is also used for measuring the particle size of food stuff as well as paints, pigments, coating, ink, toners, fillers, etc.

Laser Particle Analyzer Size 2000

Laser particle size analyzer Size 2000 is an fully automatic and intelligent particle size analyzer. It uses dual beam and multispectral detection system and laser diffraction measurement principle for measuring over the 0.01 μm to 2000 μm particle size range for wet dispersion and offers reliable and repeatable particles size analysis.



Features

- Converging fourier transform light path
- Dual-beam and multi-spectral detection system and side-light scatter test technology improves precision and performance of test
- Capable of measuring suspensions, emulsions and powders
- Expanded measurement range to 0.01 μm , making it suitable for small samples
- Automatic optical bench alignment
- Ultrasonic dispersion, mechanical stirring and circulation channel reasonably integrated in the interior of the instrument
- Built in dispersion system uniform dispersion and distribution of particles in the testing process
- Intelligent automatic mode of operation reduces the testing workload and also eliminate the interference of human factors
- Requires calibration once in a year
- Quick and simple calibration method

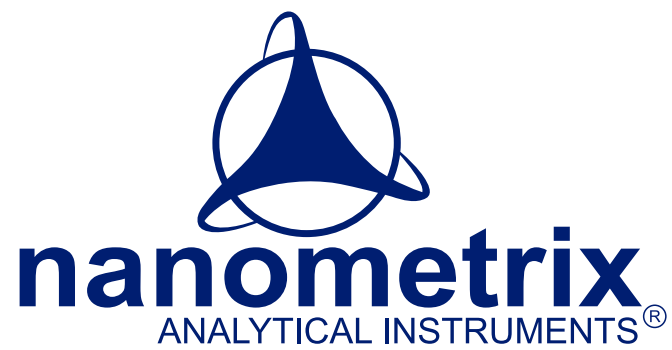
Applications

It finds wide application in cement industry, ceramics environmental and soil applications, pharmaceutical industry. It is also used for measuring the particle size of food stuff as well as paints, pigments, coating, ink, toners, fillers, etc.

Laser Particle Analyzer Nx Series

Sepecifications

| Type | Size 300 | Size 2000 |
|------------------------------|--|--|
| Executive Standard | ISO13320-1:1999 | |
| Principle | Laser Light Scattering | |
| Analysis | Mie & Fraunhofer technique | Mie & Fraunhofer Scattering |
| Measuring range | 0.1 μm - 300 μm | 0.01 μm - 2000 μm |
| Sample Type | Suspension, emulsion, powders | |
| Dispersion Type | Wet | |
| Test Speed | < 2 min | |
| Light Source | High performance He-Ne Laser, $\lambda=632.8$ nm | |
| Operation Mode | Full automatic software control | |
| Detector | Ring Photoelectric detector | |
| Detector Channels No. | 96 pcs. | 127 pcs. |
| Built-in ultrasonic Function | Frequency: 40 kHz, Power: 35 W. Time: ≥ 1 s | |
| Agitator Revolutions Speed | 0-300 rpm (Adjustable) | |
| Circulated Rated Flow | 8 l/min | |
| Circulated Rated Power | 10 W | |
| Light Path Alignment | 96 pcs. | 127 pcs. |
| System | Fully Automatic | Fully Automatic, Precision up to 0.1 μm |
| Accuracy | < 1s% | |
| Repeatability | < 1s% | |
| Sample Pool | 350 ml | |
| Sample Cuvette | 10 ml | 10 ml (Optional) |
| Software Running | Win 7 | |
| Outer Dimension (LxWxH) | 880 x 390 x 460 mm | 1230 x 640 x 660 mm |
| Net Weight | 44 kg | 58 kg |



Making world-class products

CONTACT US

León Gto.: + 52 (477) 645 47 11

CDMX.: + 52 (55) 536 21714

ventas@nanometrix.com.mx

www.nanometrix.com.mx