LABTRON

Laser Particle Size Analyzer

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Nano-Particle size analyzer

Nano-particle size analyzer LNPA-A10

Nano-particle size analyzer LNPA-A10 having fast test speed is an easy to operate and highly precise particle size analyzer based on dynamic light scattering and Brownian movement principle for measuring wide particle size range of 1-10000 nm.

Features

- Dynamic light scattering particle size measurement principle to give the highest sensitivity for measurement of particle
- Highly sensitive photomultiplier detector to ensure accuracy
- Digital correlator with 8 ns high resolution speed
- Capable of measuring suspension, emulsion and powders
- Calculates particle diameter and distribution according to Stokes-Einstein equation
- High precision constant temperature control system to ensure that samples are in a constant state throughout the testing process
- Highly stable light system
- High speed data collection and calculation
- Easy to operate

Applications

Nano particle size analyzer is used: to characterize the size of carbon nanotubes in dispersion, to measure and control particle size distribution of cement, to detect oversize particles in inks and paints, to measure protein size etc.

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Specifications

Model no.	LNPA-A10
Executive standard	ISO 13321:1996 ISO 22412:2008
Principle	Dynamic light scattering & Brownian motion
Measuring range	1 nm-10000 nm
Concentration range	0.1 mg/ml-100 mg/ml
Sample type	Suspension, emulsion and powders
Test speed	< 5 min
Light source	Semiconductor laser, 532 nm
Scattering angle	90°
Temperature control	5-40°c
Digital correlator	256 channels
Accuracy	< 1 %
Repeatability	< 1 %
Sample cuvette	4 ml
Software running	Win XP/Win 7
Dimension (L x W x H)	480 x 270 x 170 mm
Net weight	12 kg

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