



Nanoparticle Size Analyzer

Nx Nano

Making world-class products



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Nx Nano is our company's latest laser particle size analyzer which based on the dynamic light scattering principle, smaller particle, faster speed, bigger particle, more slowly.

It adopt great performance of HAMAMATSU photomultiplier and self-developed high speed digital correlator as core parts, get diffusion coefficient by test scattering light change in some angle, and calculate particle diameter and distribution according to Stokes-Einstein equation.

So the machine is with characters of fast calculation, high resolution ratio, good accuracy and repeatability.

APPLICATION

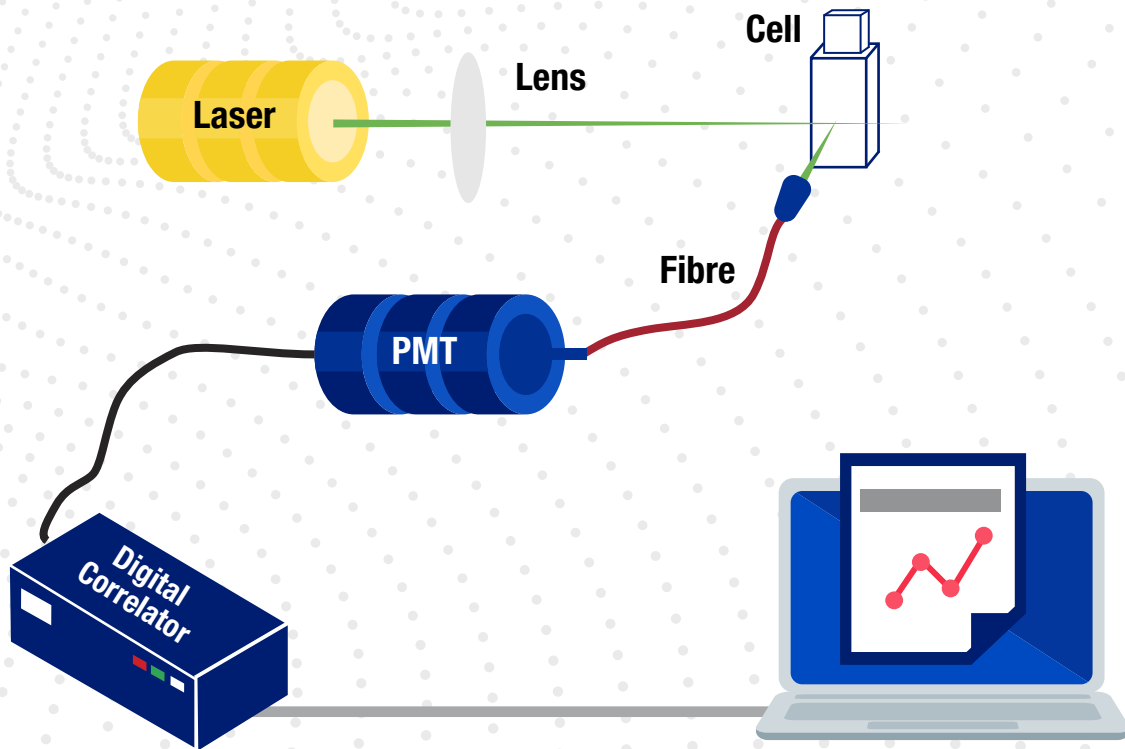
Nanometer and Submicron of solid particle or suspension.

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Type		Sepecifications
Standard		GB/T 19627/-2005/ISO 13321:1996GB/T 29022-2012/si 22412:2008
Measure range		1-10000nm
Concentration range		1-1mg/ml-100mg/ml
Accuracy error		<1%(D50 of National Standard sample)
Repeatability error		<1%(D50 of National Standard sample)
Light source		Semiconductor laser $\lambda=532\text{nm}$ P=30mW
Detector		Imported HMAMATSU photomultiplier
Scattering angle		90°
Sample cuvette		1-4mL
Temperture control		5-40 °C (Temperture controller within 0.1°C)
Test speed		<5 min
Outer Dimension		L48cm*W27cm*H17cm
G.W.		12 Kg
Operation Sytem		Win XP/Win 7/Win 10 64 Bits
Analysis		Average particle diameter, particle distribution, photon counting rate etc.
	Model	CR256
Digital Correlator	Auto-correlation channels	256
	Baseline channel	4
	Unit delay time	100ns-10ms

Test Schematic



Advantage and features

■ Advanced test principle

Dynamic light scattering principle and photon correlation spectrum technology, according to Brownian motion speed of particle to test particle size, different size of particles have different speed, when laser illuminate these particles, it will make scattering light happen different speed to fluctuations downs. Photo correlation spectrum method will analyze these particle size according to Photom fluctuations - downs in particular direction.

■ High resolution

Using PCR technology test nanometer-scale particle size, must be able to distinguish nanosecond signal fluctuations. The core components of the instrument is

CR256 digital correlator developed by our company, with 8 ns high resolution speed.

■ High sensitivity and noise-signal ratio

Detector is composed of imported HAMAMATSU photomultiplier, so ensure good accuracy.

■ High speed data collection and calculation

Self-developed patent product-CR256 digital correlation. It could finish dynamic scattering light intensity collection and autocorrelative function real time calculation. Data processing speed is up to 162M, effectively reflect dynamic scattering light information of different sizes of particles.



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