



- PARTICLE SIZE
- PARTICLE CONCENTRATION
- ZETA POTENTIAL
- MOLECULAR WEIGHT
- REFRACTIVE INDEX
- TRANSMITTANCE
- RHEOLOGICAL PROPERTIES



BeNano Series

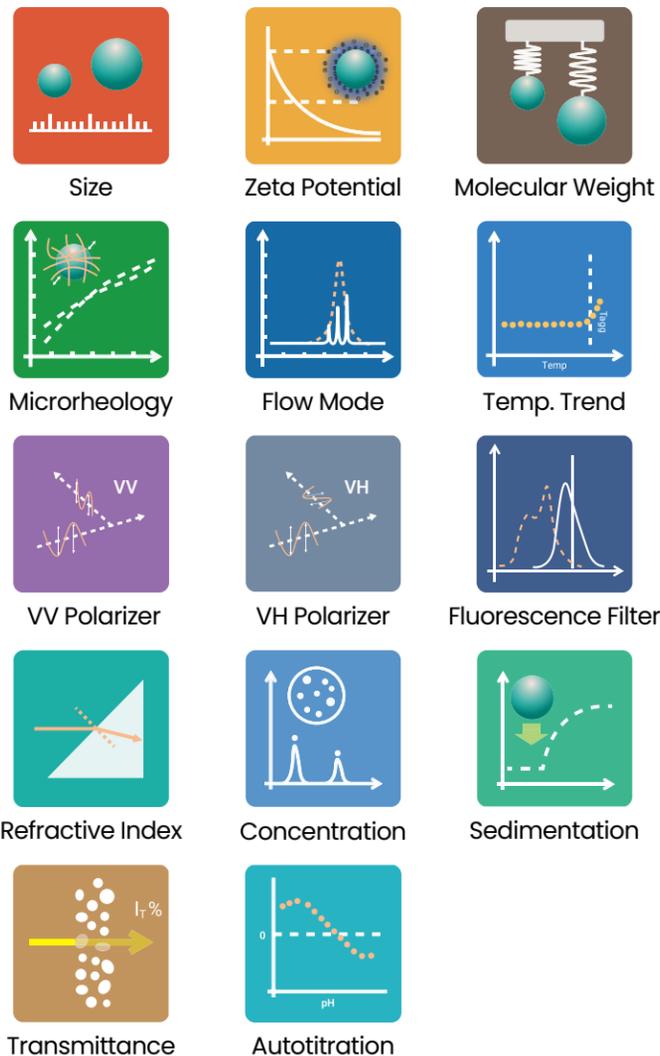
Be the Nanoparticle Expert You Need

Unlock Greater Research Potential With BeNano

The BeNano series comprises seven models and represents a state-of-the-art generation of nanoparticle analyzers that integrate light scattering and transmission techniques. It provides precise measurements of particle size and concentration, zeta potential, molecular weight, refractive index, and rheological properties, all within a single compact system.



MEASUREMENT MODES



Backscattering Dynamic Light Scattering

Collects more scattered light than 90° optics, improving sensitivity to small particles. The auto-adjusting measurement position ensures accurate size results even at concentrations up to 40% w/v.

Phase Analysis Light Scattering

Precisely distinguishes weak to strong electrophoretic signals, enabling superior zeta potential measurements, especially near isoelectric points or in high-salinity conditions.

Autotitrator & Degasser

The BAT-1 autotitrator enables automated pH titration from 1 to 13. It can be integrated with a triple-channel degasser to eliminate air bubbles during titration.

Novel 0° Detector Module

Positioned at 0°, this module employs a photodiode and a CMOS camera to measure refractive index, concentration and microparticle size via sedimentation.

Features	BeNano 180 Zeta Max	BeNano 180 Zeta Pro	BeNano 180 Zeta	BeNano 90 Zeta	BeNano Zeta	BeNano 180	BeNano 90
Particle Size - 90° DLS	✓	✓	✗	✓	✗	✗	✓
Particle Size - 173° DLS	✓	✓	✓	✗	✗	✓	✗
Zeta Potential	✓	✓	✓	✓	✓	✗	✗
Molecular Weight	✓	✓	✓	✓	✗	✓	✓
Microrheology	✓	✓	✓	✓	✗	✓	✓
Refractive Index	✓	✗	✓*	✓*	✗	✓*	✓*
Concentration	✓	✗	✓*	✓*	✗	✓*	✓*
Sedimentation	✓	✗	✓*	✓*	✗	✓*	✓*
Transmittance	✓	✗	✓*	✓*	✗	✓*	✓*
Temperature Trend	✓	✓	✓	✓	✓	✓	✓
VV Polarizer	✓*	✓*	✓*	✓*	✗	✓*	✓*
VH Polarizer	✓*	✓*	✗	✓*	✗	✗	✓*
Fluorescence Filter	✓*	✓*	✓*	✓*	✗	✓*	✓*
Flow Mode	✓*	✓*	✓*	✓*	✗	✓*	✓*
Autotitration	✓*	✓*	✓*	✓*	✓*	✗	✗

★ Optional

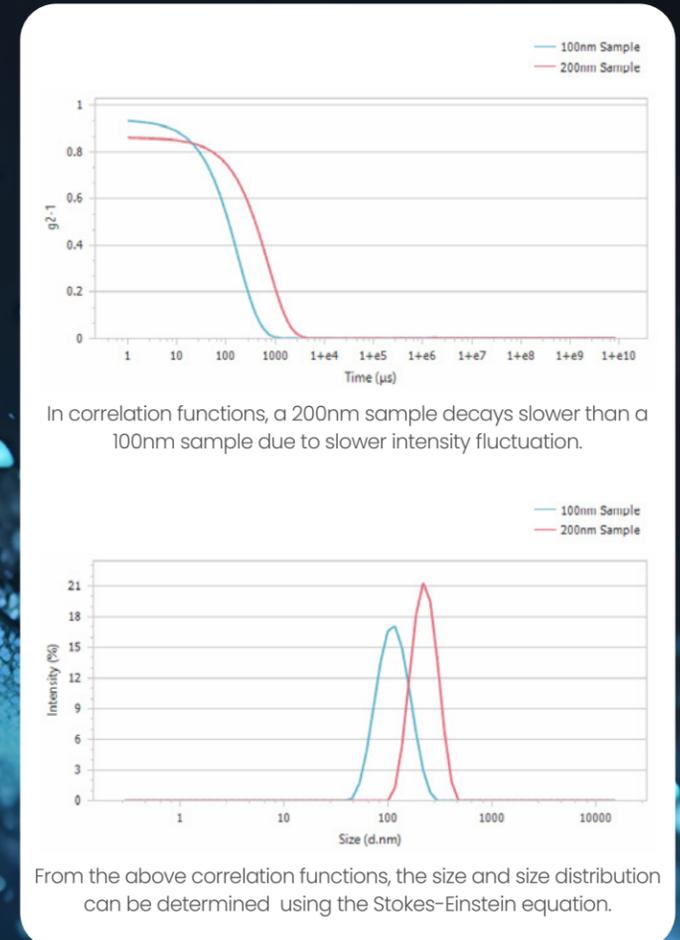
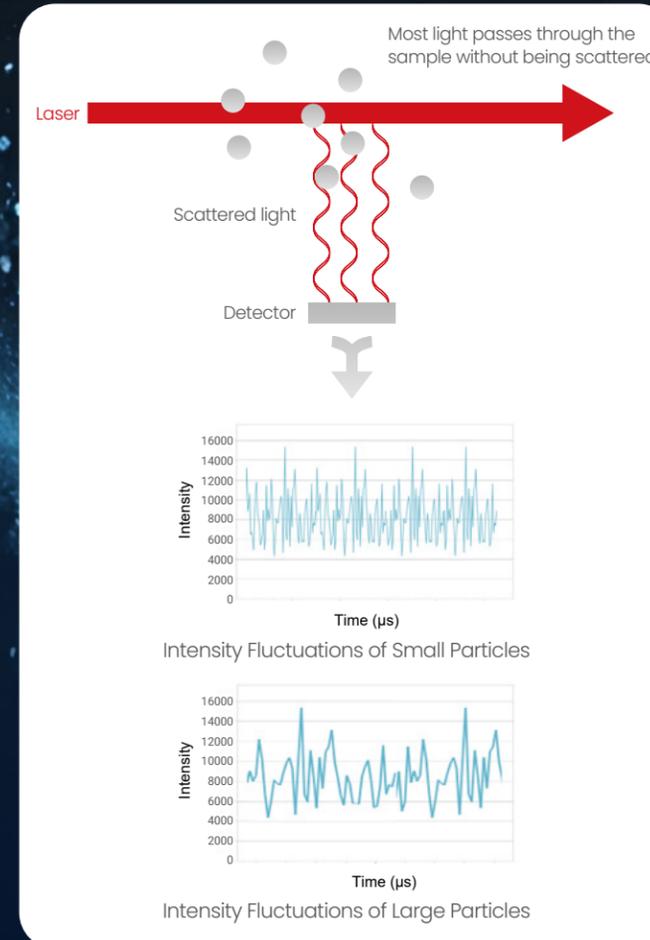


Size Measurement

Dynamic Light Scattering (DLS), also known as Photon Correlation Spectroscopy (PCS) or Quasi-Elastic Light Scattering (QELS), is a technique used to determine particle size by analyzing the Brownian motion of particles in a dispersion.

DLS is based on the principle of Brownian motion, which relates particle size to velocity—smaller particles diffuse more rapidly, while larger particles move more slowly. The scattering intensities of the particles are detected by an avalanche photodiode (APD) and then converted into a correlation function. From this correlation function, a mathematical algorithm can be applied to obtain the diffusion coefficient (D). The hydrodynamic diameter (D_H) and its distribution can be calculated using the Stokes-Einstein equation, which relates the diffusion coefficient to the particle size.

$$D = \frac{k_B T}{3\pi\eta D_H}$$



Backscattering Dynamic Light Scattering

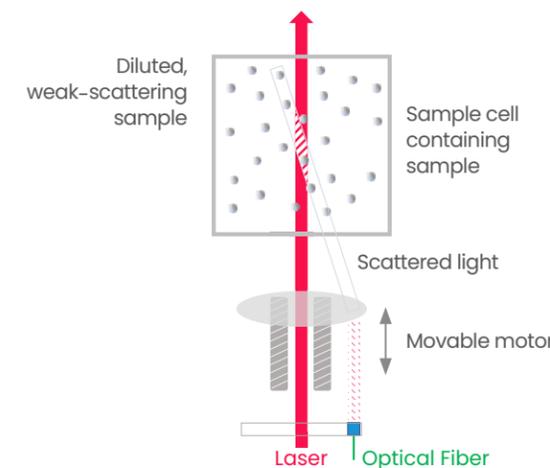
Using backscattering optics, the analyzer automatically identifies the best detection position by evaluating the sample's size, concentration, and scattering characteristics.

This ensures maximum measurement accuracy while offering the adaptability needed to evaluate a wide range of samples with varying properties.

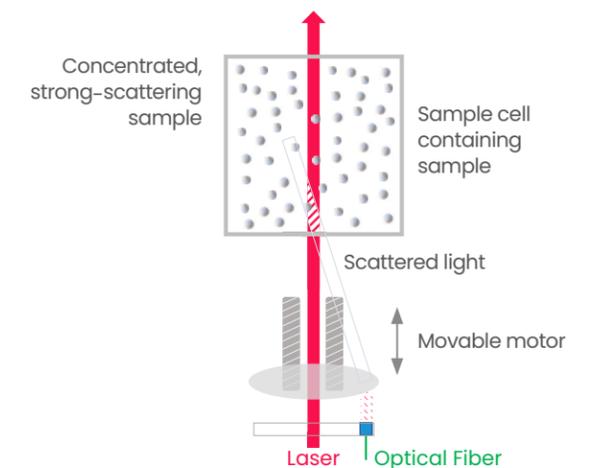
FEATURES & BENEFITS

- Wider Concentration Range**
 By optimizing the detection position, highly concentrated samples can be detected near the edge of the sample cell, effectively minimizing errors from multiple light scattering.
- Increased Sensitivity**
 Offers 8-10 times the scattering volume and approximately 10 times greater sensitivity as compared to traditional 90° optics.
- Expanded Size Detection Range**
 By minimizing multiple light scattering from larger particles, this approach enhances measurement accuracy. Additionally, the significantly larger scattering volume helps reduce number fluctuations of large particles, leading to more reliable analysis.
- Better Reproducibility**
 Reduced effects from dust contaminants and unevenly distributed agglomerates, improving reproducibility.

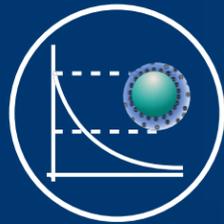
Intelligent Search for the Optimal Detection Position



The detection point in the middle of the sample cell
 This leads to a large scattering volume that increases instrument sensitivity and is suitable for detecting dilute samples with weaker scattering effects.



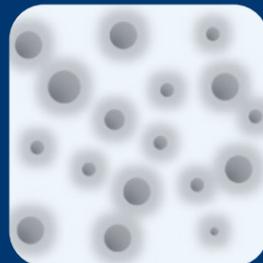
The detection point at the edge of the sample cell
 This avoids the multiple scattering effect of high concentration samples, ensuring accurate and repeatable particle size results.



Zeta Potential Measurement

In aqueous systems, charged particles are surrounded by counter-ions that form an inner Stern layer and an outer shear layer. Zeta potential is the electrical potential at the interface of the shear layer. A higher zeta potential indicates greater stability and less aggregation of the suspension system. Electrophoretic light scattering (ELS) measures electrophoretic mobility via Doppler shifts of scattered light, which can be used to determine the zeta potential of a sample by Henry's equation.

COLLOIDAL STABILITY



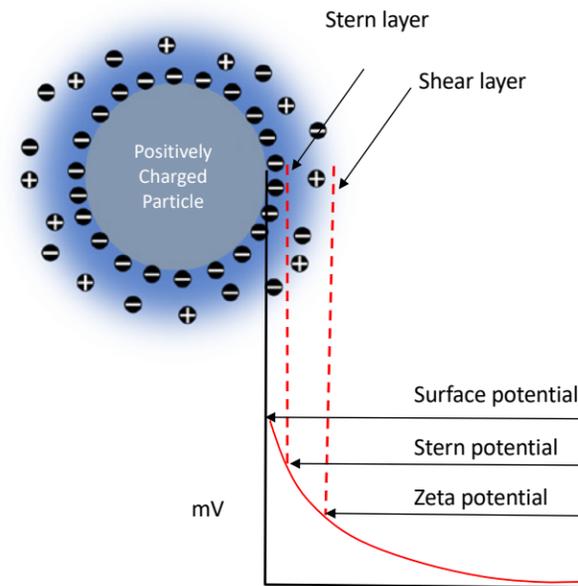
Stable particle system

- High repulsion force of particles
- High zeta potential

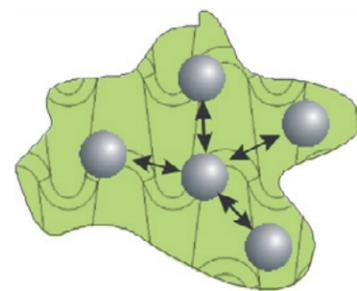


Unstable particle system

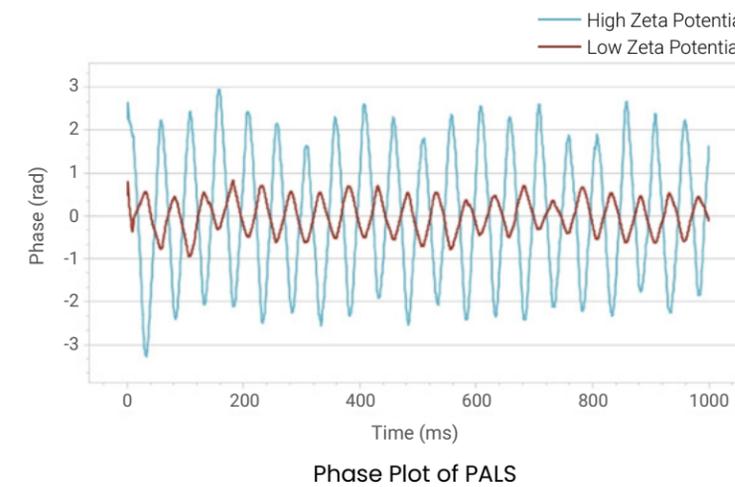
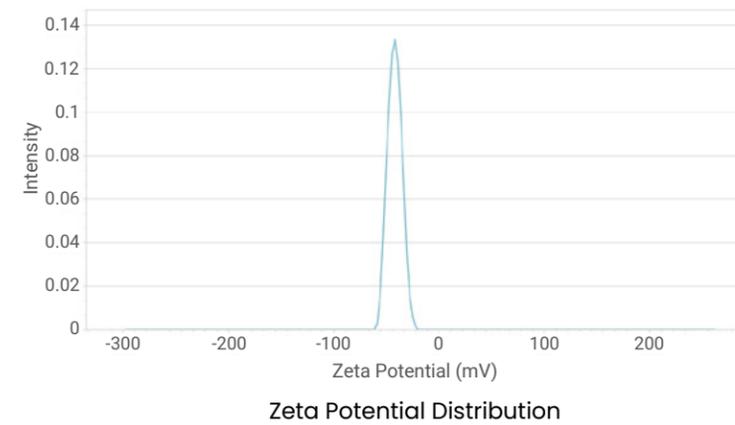
- Flocculation, aggregation, sedimentation
- Low or zero zeta potential



Potential Distribution at Particle Surface



Electrostatic Forces Between Particles

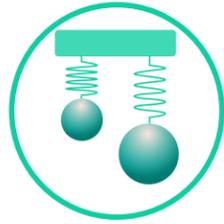


Phase Analysis Light Scattering (PALS)

Phase Analysis Light Scattering (PALS) is a more advanced technique than traditional ELS, which has been further developed by Bettersize to measure the zeta potential.

FEATURES & BENEFITS

- Accurate measurement of samples with low electrophoretic mobility
- Effective for samples in organic solvents with low dielectric constant
- More accurate results for samples with high conductivity
- Effectively measures the zeta potential of particles whose charge approaches the isoelectric point



Molecular Weight Measurement

Static light scattering (SLS) is a technique that measures scattering intensities to calculate the weight-average molecular weight (M_w) and the second virial coefficient (A_2) of a sample using the Rayleigh equation.

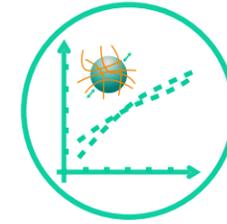
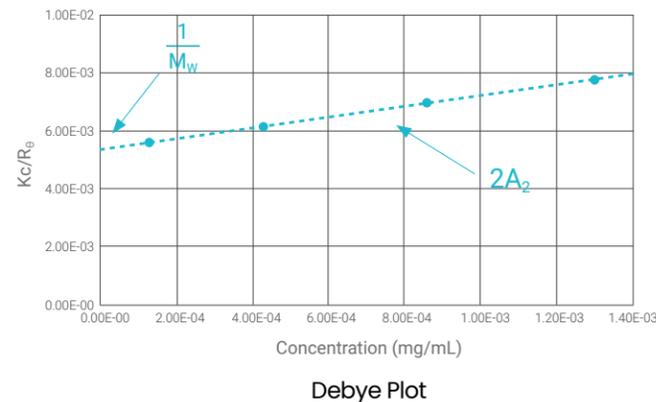
$$\frac{Kc}{R_\theta} = \frac{1}{M_w} + 2A_2c$$

where c is the sample concentration, θ is the detection angle, R_θ is the Rayleigh ratio used to characterize the intensity ratio between the scattered light and the incident light at the angle of θ , M_w is the sample's weight-average molecular weight, A_2 is the second virial coefficient, and K is a constant related to $(dn/dc)^2$.



FEATURES & BENEFITS

- Non-invasive technique
- Suitable for particles dissolved in liquid
- Measures molecular weight of samples smaller than 30 nm
- Provides second virial coefficient A_2 indicating the intermolecular interactions

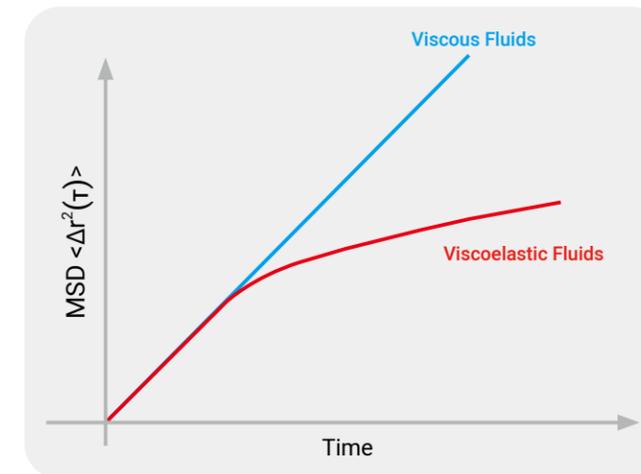


Microrheology Measurement

Dynamic Light Scattering Microrheology (DLS Microrheology) is an economical and efficient technique that utilizes dynamic light scattering to determine rheological properties. By analyzing the Brownian motion of colloidal tracer particles, information about the viscoelastic properties of the system, such as viscoelastic modulus, complex viscosity and creep compliance, can be obtained with the generalized Stokes-Einstein equation.

FEATURES & BENEFITS

- Investigates rheological behaviors by measuring the thermally-driven motion of tracer particles within a material being studied
- Facilitates the measurement of a broad frequency range in a single measurement
- Suitable for dilute, weakly structured solutions
- Delivers fast results in 1 – 2 minutes with easy operation
- Offers rheological insights across a wide temperature range from -15 °C to 120 °C
- Complements conventional mechanical rheology



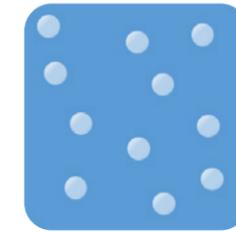
MSD curves of particles in pure viscous fluids and complex viscoelastic fluids

Stokes-Einstein equation

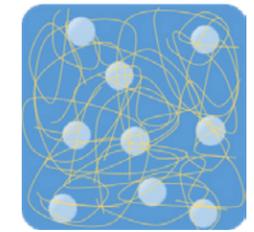
$$G^*(\omega) = \frac{k_B T}{\pi R i \langle \Delta r^2(i\omega) \rangle} = G'(\omega) + iG''(\omega)$$

Microrheology Information

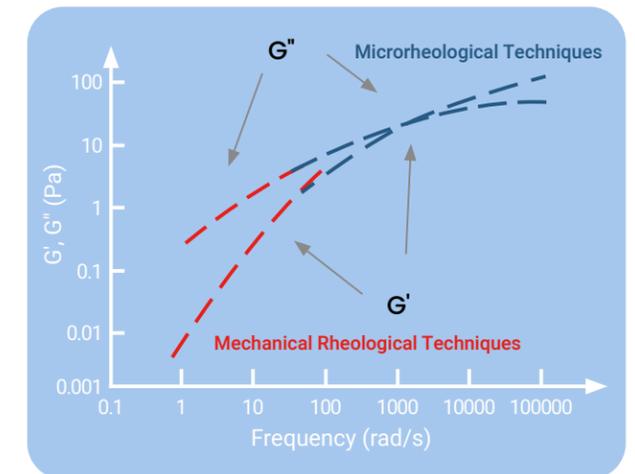
- Elastic (storage) modulus G'
- Viscous (loss) modulus G''
- Complex viscosity η^*
- Creep compliance J



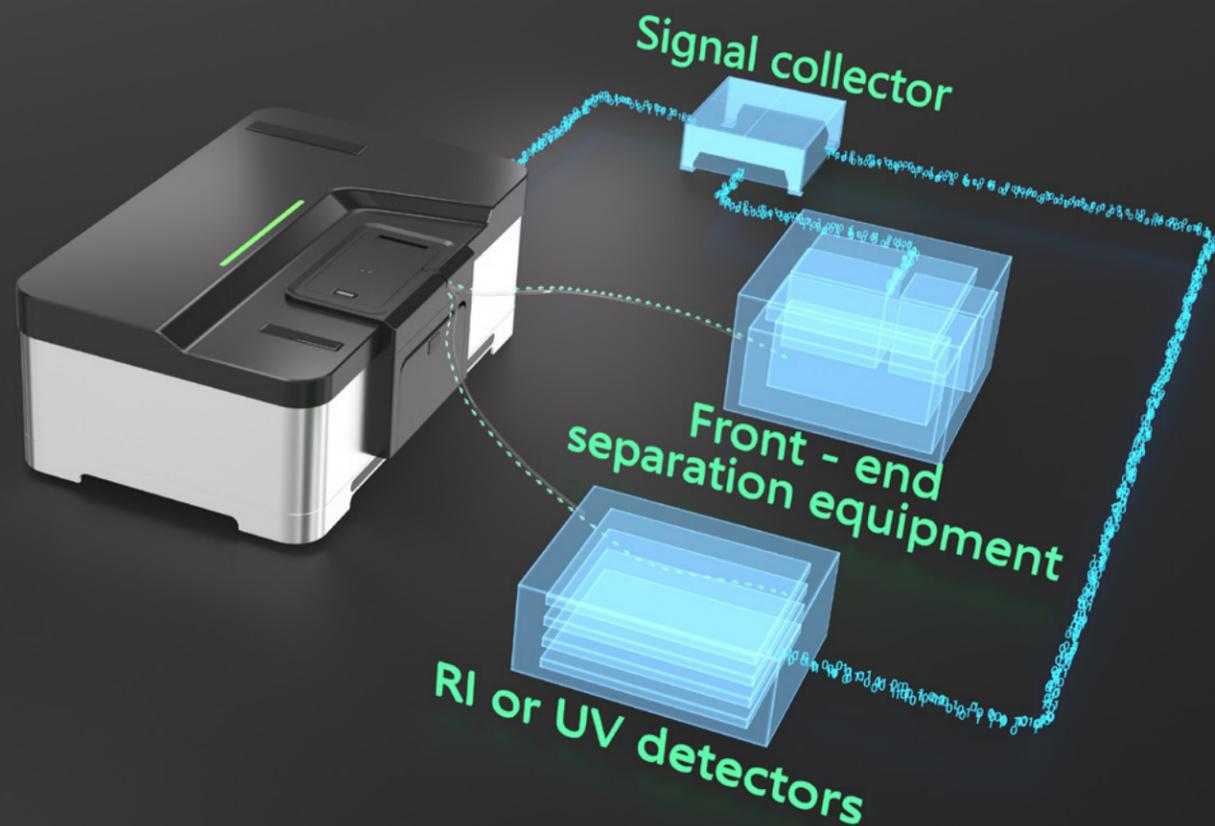
Particles in pure viscous fluids



Particles in complex viscoelastic fluids



G' and G'' curves of complex fluids



Flow Mode Measurement



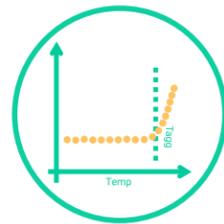
DLS flow mode provides a high-resolution size result of a complex, polydisperse system. When combined with front-end separation equipment such as **GPC/SEC or FFF**, particles are separated into monodisperse fractions and flow through the BeNano in sequence by size. The size of each fraction is continuously measured and summed into a high-resolution size distribution.

BeNano can acquire **RI or UV signals**, offering a more accurate volume and number distributions independent of algorithm compared to a batch-mode measurement.

FEATURES & BENEFITS

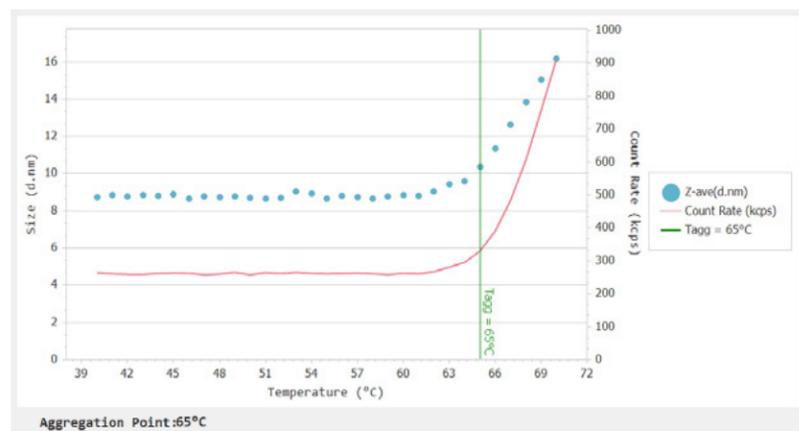
- DLS analyzer connecting with GPC/SEC, FFF, etc.
- Receiving up to 3 signals from RI, UV or other detectors
- 27 μ L low-volume flow cell to avoid band broadening
- Size resolution as high as 1.3 : 1
- Size distributions weighted by number and volume in addition to intensity
- Suitable for complex, polydisperse systems such as proteins, polymers, etc.

Temperature Trend Measurement



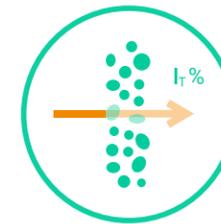
FEATURES & BENEFITS

- Programmed temperature trend measurement from -15°C to 120°C
- Important for analyzing particle size and zeta potential across varying temperatures
- Easy examination of protein formulation stability
- Accelerates real-time aging through elevated temperature simulation



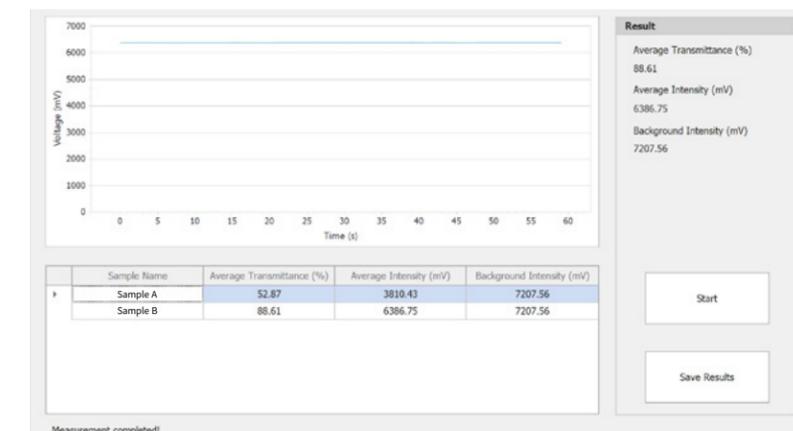
Size vs. Temperature trend measurement of the BSA protein

Transmittance Measurement

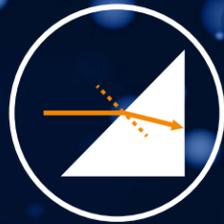


FEATURES & BENEFITS

- Measures transmittance rapidly by detecting the light intensity transmitted through the sample
- Requires a minimum sample volume of 3 μ L
- Sensitive indicator for evaluating batch consistency in industrial products
- Quantitative tool for identifying sample instability



Transmittance measurement monitoring sample instability



Refractive Index Measurement

The BeNano Series can determine the refractive index (RI) measurement of liquids with outstanding precision.

A patented wedge-shaped cuvette holds the liquid sample while the CMOS detector measures the deflection of the light path after it traverses the liquid to calculate the RI.

MEASUREMENT PARAMETERS

- Positions of the light spot centers
- Refractive index of the liquid being measured

FEATURES & BENEFITS

- Patented technique supports a broad refractive index range from 1.2 to 1.6
- Requires only two calibration references and utilizes linear calibration suitable for extrapolation
- No tracer particles or prior knowledge of viscosity are required
- Enables DLS and ELS measurement for dispersants with unknown refractive indices
- Suitable for both organic and aqueous solvents

Refractive Index Measurement

Principle	Optical refraction
Measuring Range	1.2 - 1.6
Accuracy	Better than $\pm 0.1\%$
Min. Sample Volume	380 μL



Concentration Measurement

The BeNano measures particle volume fraction and number concentrations in particles per milliliter (particles/mL) for each population through the patented LEDLS technique.

The incident light passes through the sample and reaches a photodiode detector, which records the transmitted intensity. By comparing it with that of a blank solution and combining the data with the particle size distribution from dynamic light scattering, the particle concentration is determined.

MEASUREMENT PARAMETERS

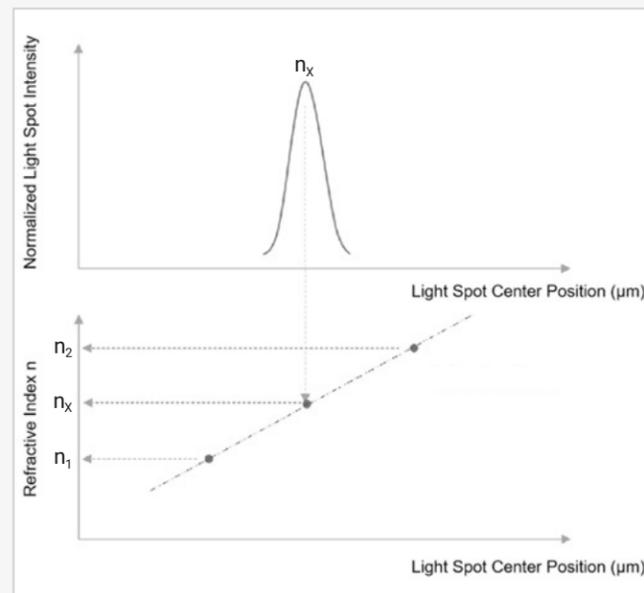
- Volume fraction (%) of each particle population
- Number concentration (particles/mL) of each particle population

FEATURES & BENEFITS

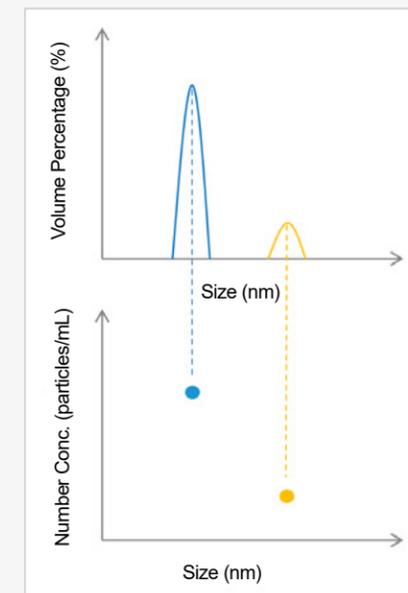
- Enables fast measurement with single-angle detection
- Simplifies sample preparation with no need for calibration
- Ideal for screening-type measurements
- Suitable for both aqueous and organic samples

Concentration measurement

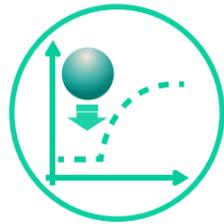
Principle	Light Extinction - Dynamic Light Scattering (LEDLS)
Detection angle	0° (Light Extinction), 173° or 90° (Dynamic Light Scattering)
Measuring Range	1×10^8 particles/mL - 1×10^{12} particles/mL
Min. Sample Volume	3 μL



A calibration curve is established by measuring the light spot position for two references with known refractive indices, then used to determine the refractive index of unknown samples.



By analyzing individual population concentrations, users can make informed decisions on sample preparation, formulation adjustments, or further analysis.



Sedimentation Size Measurement

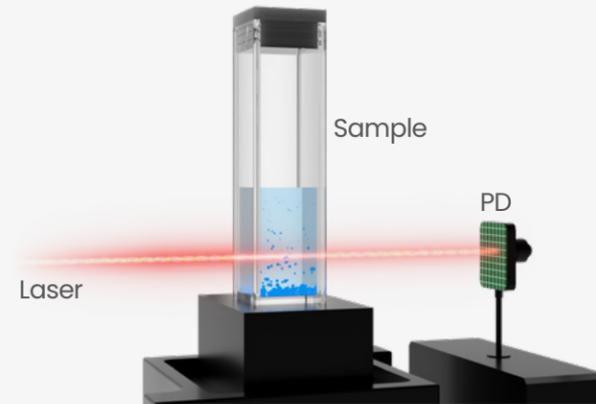
The **BeNano Series** provides particle size results based on the sedimentation method. The sedimentation rate of particles is directly related to their size, with larger particles settling faster. The PD detector monitors the changes in transmitted intensity over time, enabling the determination of particle size and distribution for particles up to 50 microns.

MEASUREMENT PARAMETERS

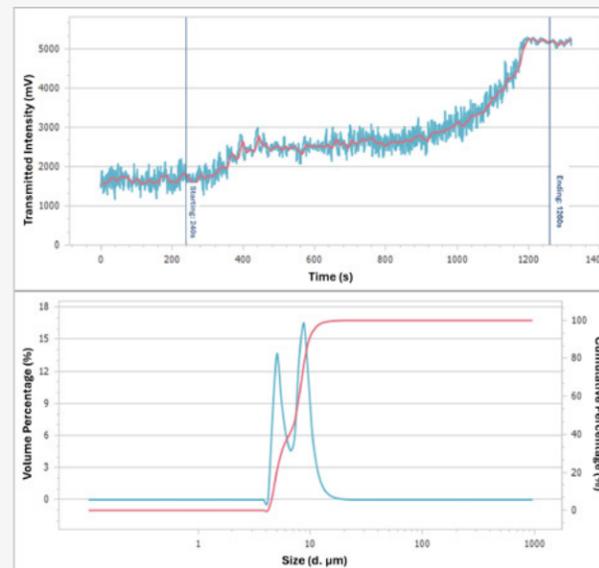
- D10, D50, D90
- Span
- Volume-weighted Mean Diameter D[4,3]
- Size Distributions Weighted by Volume

FEATURES & BENEFITS

- Expands size measurement range up to 50 μm
- Suitable for samples containing both nanoparticles and microparticles, meeting the needs of broad distribution samples
- Provides volume-based size distributions for micron-sized particles, consistent with laser diffraction results
- Achieves up to 1.5x size resolution for multiple peaks

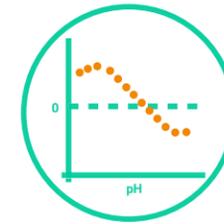


Schematic of sedimentation method



5 μm + 10 μm polystyrene mixture

Sedimentation Size Measurement	
Principle	Particle size analysis by gravitational sedimentation
Detection angle	0°
Measurable size range	1 μm - 50 μm
Measurable parameter	D10, D50, D90, volume distribution, etc.
Required sample volume	1 mL - 3 mL



pH Autotitration Measurement

The **BAT-1 + Degasser** units integrate seamlessly with the BeNano Series for automatic acid-base titration and isoelectric point (IEP) determination. The system automatically enables sample flow during measurement, ensuring high efficiency, and consistent, operator-independent results as well as precise titration.

MEASUREMENT PARAMETERS

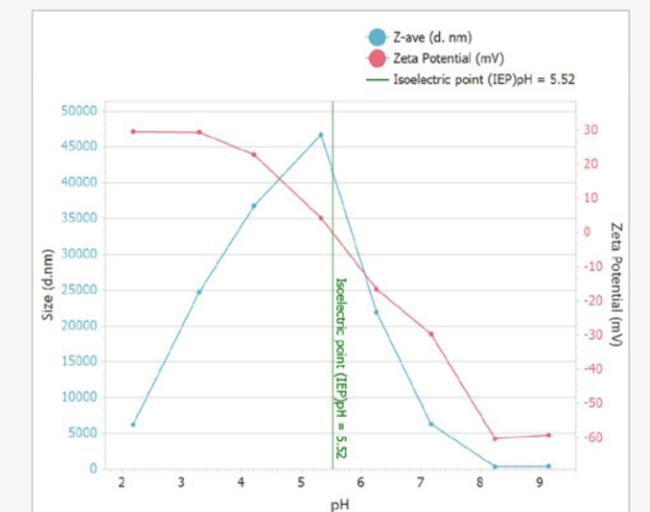
- Zeta potential vs. pH
- Size vs. pH
- Size and Zeta Potential vs. pH
- Conductivity vs. pH
- Isoelectric point

FEATURES & BENEFITS

- Accurate size and zeta potential analysis from pH 1 to 13
- Enhanced safety with minimal exposure to corrosive liquids
- Automated workflow reduces training needs and researcher workload
- Fewer manual steps minimize human error
- Completes each measurement cycle in as little as 30 minutes
- Smart Titration: Based on the initial pH and the target pH, the required titrants can be chosen automatically via the software



An optional degasser is available to remove dissolved gases from titrants. Preventing bubbles improves the accuracy of zeta potential measurements.



The software can automatically generate the size and zeta potential vs. pH curve and identify the isoelectric point (IEP).

pH Autotitration Measurement	
Cell compatibility	BT-C1, BT-C1-Pt
pH range	1 - 13
Titration Accuracy	0.28 μL
Titration container quantity	3
Typical sample volume	15 mL

CELLS

Standard



Folded Capillary Cell BT-CI

Compatibility: Aqueous samples for zeta potential measurement
Material: **PC, Gold-plated Phosphor Bronze**
Min. Sample Volume: **0.75 mL**
Temp. Upper Limit: **70 °C**



Capillary Sizing Cell

Compatibility: Aqueous/organic samples with ultra-micro volume for size measurement
Material: **Quartz**
Min. Sample Volume: **3 µL**
Temp. Upper Limit: **70 °C**



PS Cuvette

Compatibility: Aqueous samples for size measurement
Material: **Polystyrene**
Min. Sample Volume: **1 mL**
Temp. Upper Limit: **70 °C**



Glass Cuvette

Compatibility: Aqueous/organic samples for size measurement, good sealing performance
Material: **Glass**
Min. Sample Volume: **1 mL**
Temp. Upper Limit: **120 °C**



Folded Capillary Cell BT-CI-Pt

Compatibility: Aqueous samples with moderate to high salinity (conductivity up to 260 mS/cm) for zeta potential measurement
Material: **PC, Platinum**
Min. Sample Volume: **0.75 mL**
Temp. Upper Limit: **70 °C**



Dip Cell

Compatibility: Aqueous/organic samples for zeta potential measurement
Material: **PEEK, Platinum**
Min. Sample Volume: **1 mL**
Temp. Upper Limit: **70 °C**



Micro-volume PMMA Cuvette

Compatibility: Aqueous samples with micro volume for size measurement
Material: **PMMA**
Min. Sample Volume: **40 µL**
Temp. Upper Limit: **70 °C**



Micro-volume Glass Cuvette

Compatibility: Aqueous/organic samples with micro volume for size measurement
Material: **Quartz**
Min. Sample Volume: **25 µL**
Temp. Upper Limit: **120 °C**



High Concentration Zeta Cell

Compatibility: Aqueous samples with moderate to high concentrations (up to 80% w/v) for zeta potential measurement
Material: **Quartz**
Min. Sample Volume: **64 µL**
Temp. Upper Limit: **70 °C**



Micro-volume VV Cell

Compatibility: Aqueous samples, eliminates the horizontal element of scattered light
Material: **Quartz**
Min. Sample Volume: **16 µL**
Temp. Upper Limit: **90 °C**



Micro-volume VH Cell

Compatibility: Aqueous samples, eliminates the vertical element of scattered light
Material: **Quartz**
Min. Sample Volume: **16 µL**
Temp. Upper Limit: **90 °C**



Micro-volume Fluorescence-filtered Cell

Compatibility: Aqueous samples for size measurement, equipped with a narrow-band filter
Material: **Quartz**
Min. Sample Volume: **16 µL**
Temp. Upper Limit: **90 °C**



Flow Cell

Compatibility: Aqueous/organic samples for DLS flow mode measurement
Material: **Quartz**
Min. Sample Volume: **27 µL**
Temp. Upper Limit: **70 °C**



RI Cuvette

Compatibility: Aqueous/organic samples for refractive index (RI) measurement with a quartz wedge design
Material: **Quartz**
Min. Sample Volume: **380 µL**
Temp. Upper Limit: **120 °C**



Functionality	Parameter	BeNano 180 Zeta Max	BeNano 180 Zeta Pro	BeNano 180 Zeta	BeNano 90 Zeta	BeNano Zeta	BeNano 180	BeNano 90
Size measurement	Size measurement range	0.3 nm – 15 µm*	0.3 nm – 15 µm*	0.3 nm – 10 µm*	0.3 nm – 15 µm*	N/A	0.3 nm – 10 µm*	0.3 nm – 15 µm*
	Sample volume	3 µL – 1 mL*	3 µL – 1 mL*	40 µL – 1 mL*	3 µL – 1 mL*	N/A	40 µL – 1 mL*	3 µL – 1 mL*
	Detection angle	90° & 173° & 12°	90° & 173° & 12°	173° & 12°	90° & 12°	N/A	173°	90°
	Analysis algorithm	Cumulants, General Mode, CONTIN, NNLS	Cumulants, General Mode, CONTIN, NNLS	Cumulants, General Mode, CONTIN, NNLS	Cumulants, General Mode, CONTIN, NNLS	N/A	Cumulants, General Mode, CONTIN, NNLS	Cumulants, General Mode, CONTIN, NNLS
	Upper limit of concentration range	40% w/v*	40% w/v*	40% w/v*	40% w/v†	N/A	40% w/v*	40% w/v†
	Detection position	Movable	Movable	Movable	Fixed	N/A	Movable	Fixed
Zeta potential measurement	Detection angle	12°	12°	12°	12°	12°	N/A	N/A
	Zeta potential measurement range	No actual limitation	No actual limitation	No actual limitation	No actual limitation	No actual limitation	N/A	N/A
	Electrophoretic mobility	> ± 20 µm·cm/V·s	> ± 20 µm·cm/V·s	> ± 20 µm·cm/V·s	> ± 20 µm·cm/V·s	> ± 20 µm·cm/V·s	N/A	N/A
	Conductivity	0 – ≥ 270 mS/cm	0 – ≥ 270 mS/cm	0 – ≥ 270 mS/cm	0 – ≥ 270 mS/cm	0 – ≥ 270 mS/cm	N/A	N/A
	Sample volume	64 µL – 1 mL	64 µL – 1 mL	64 µL – 1 mL	64 µL – 1 mL	64 µL – 1 mL	N/A	N/A
	Sample size	1 nm – ≥ 120 µm*	1 nm – ≥ 120 µm*	1 nm – ≥ 120 µm*	1 nm – ≥ 120 µm*	1 nm – ≥ 120 µm*	N/A	N/A
Other measurements	Molecular weight (Mw) measurement	342 Da – 2 × 10 ⁷ Da*	342 Da – 2 × 10 ⁷ Da*	342 Da – 2 × 10 ⁷ Da*	342 Da – 2 × 10 ⁷ Da*	N/A	342 Da – 2 × 10 ⁷ Da*	342 Da – 2 × 10 ⁷ Da*
	DLS microrheology measurement	MSD, G', G'', η*, J	MSD, G', G'', η*, J	MSD, G', G'', η*, J	MSD, G', G'', η*, J	N/A	MSD, G', G'', η*, J	MSD, G', G'', η*, J
	Refractive index measurement	1.2 – 1.6*	N/A	1.2 – 1.6**	1.2 – 1.6**	N/A	1.2 – 1.6**	1.2 – 1.6**
	Concentration measurement	1 × 10 ⁸ particles/mL – 1 × 10 ¹² particles/mL*	N/A	1 × 10 ⁸ particles/mL – 1 × 10 ¹² particles/mL**	1 × 10 ⁸ particles/mL – 1 × 10 ¹² particles/mL**	N/A	1 × 10 ⁸ particles/mL – 1 × 10 ¹² particles/mL**	1 × 10 ⁸ particles/mL – 1 × 10 ¹² particles/mL**
	Sedimentation particle size measurement	1 µm – 50 µm*	N/A	1 µm – 50 µm**	1 µm – 50 µm**	N/A	1 µm – 50 µm**	1 µm – 50 µm**
System parameter	Temperature control range	-15 °C – 120 °C, ± 0.1 °C	-15 °C – 120 °C, ± 0.1 °C	-15 °C – 120 °C, ± 0.1 °C	-15 °C – 120 °C, ± 0.1 °C	-15 °C – 120 °C, ± 0.1 °C	-15 °C – 120 °C, ± 0.1 °C	-15 °C – 120 °C, ± 0.1 °C
	Condensation control	Dry air or nitrogen	Dry air or nitrogen	Dry air or nitrogen	Dry air or nitrogen	Dry air or nitrogen	Dry air or nitrogen	Dry air or nitrogen
	Laser source	50 mW Solid-state laser, 671 nm*, Class 1	50 mW Solid-state laser, 671 nm*, Class 1	50 mW Solid-state laser, 671 nm*, Class 1	50 mW Solid-state laser, 671 nm*, Class 1	50 mW Solid-state laser, 671 nm*, Class 1	50 mW Solid-state laser, 671 nm*, Class 1	50 mW Solid-state laser, 671 nm*, Class 1
	Correlator	Up to 4000 channels, 10 ¹¹ linear dynamic	Up to 4000 channels, 10 ¹¹ linear dynamic	Up to 4000 channels, 10 ¹¹ linear dynamic	Up to 4000 channels, 10 ¹¹ linear dynamic	Up to 4000 channels, 10 ¹¹ linear dynamic	Up to 4000 channels, 10 ¹¹ linear dynamic	Up to 4000 channels, 10 ¹¹ linear dynamic
	Detector	Avalanche photodiode (APD)	Avalanche photodiode (APD)	Avalanche photodiode (APD)	Avalanche photodiode (APD)	Avalanche photodiode (APD)	Avalanche photodiode (APD)	Avalanche photodiode (APD)
	Intensity control	0.0001% – 100%, manual or automatic	0.0001% – 100%, manual or automatic	0.0001% – 100%, manual or automatic	0.0001% – 100%, manual or automatic	0.0001% – 100%, manual or automatic	0.0001% – 100%, manual or automatic	0.0001% – 100%, manual or automatic
	Dimensions (L x W x H)	62.5 x 40 x 24.5 cm (26 kg)	62.5 x 40 x 24.5 cm (26 kg)	62.5 x 40 x 24.5 cm (26 kg)	62.5 x 40 x 24.5 cm (26 kg)	62.5 x 40 x 24.5 cm (26 kg)	62.5 x 40 x 24.5 cm (26 kg)	62.5 x 40 x 24.5 cm (26 kg)
	Power supply	AC 100 – 240 V, 50 – 60 Hz, 4A	AC 100 – 240 V, 50 – 60 Hz, 4A	AC 100 – 240 V, 50 – 60 Hz, 4A	AC 100 – 240 V, 50 – 60 Hz, 4A	AC 100 – 240 V, 50 – 60 Hz, 4A	AC 100 – 240 V, 50 – 60 Hz, 4A	AC 100 – 240 V, 50 – 60 Hz, 4A
Compliance	21 CFR Part 11, ISO 13321, ISO 22412, ISO 13099	21 CFR Part 11, ISO 13321, ISO 22412, ISO 13099	21 CFR Part 11, ISO 13321, ISO 22412, ISO 13099	21 CFR Part 11, ISO 13321, ISO 22412, ISO 13099	21 CFR Part 11, ISO 13099	21 CFR Part 11, ISO 13321, ISO 22412	21 CFR Part 11, ISO 13321, ISO 22412	

* Dependent on samples and accessories † Up to 40% w/v using capillary sizing cell * 10mW 633 nm HeNe laser available on request ★ Optional

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