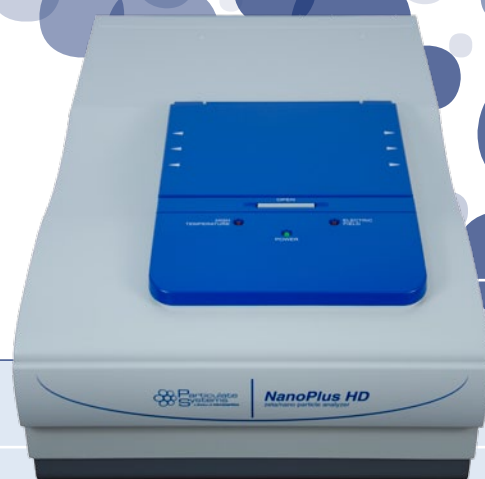


SPECIFICATIONS

NanoPlus HD



NANOPLUS HD: PARTICLE SIZE

Principle	Photon Correlation Spectroscopy (PCS), Dynamic Light Scattering (DLS)
Scattering Angle	165° Back-scattering
Minimum Sample Volume	Standard Cell: 0.9 mL, Micro Volume Cell: 20 µL
Concentration	0.00001 to 40%
Measurement Range	0.1 nm to 12,300 nm Size Distribution Range
Light Source	Semiconductor Laser Diode
Detector	HD Avalanche Photodiode
Laser Wavelength	660 nm
Laser Power	70 mW
Correlator	Includes both Time-Domain and Time-Interval correlators. Maximum of 1,000,000 equivalent channels
Temperature Control	Peltier
Temperature Range	0° to 90°C (Temperature Gradient function available)
Temperature Accuracy	Within +/-0.2 °C
FDA 21CFR Part 11	Compliant
Optical Band Pass Filter	Optional accessory available for use with fluorescent materials
Autotitrator	Optional accessory with bubble elimination system available for automated adjustment of pH and quantitative addition studies, such as surfactant or flocculating agent activity
Organic Solvent Compatible	Standard glass cell

SPECIFICATIONS

NanoPlus HD

MOLECULAR WEIGHT

Principle	Dual Method: Dynamic Light Scattering (DLS) using Diffusion Coefficient and Static Light Scattering (SLS) using Debye Plot
Scattering Angle	165° Back-scattering
Minimum Sample Volume	Standard Glass Cell: 0.9 mL
Concentration	Sample dependent
Measurement Range	3.6x10 ² to 2x10 ⁷ Da
Light Source	Semiconductor Laser Diode
Detector	HD Avalanche Photodiode

*Specification reflect combine Size/Zeta/MW unit (NanoPlus 3 HD). Also available in Size/MW ONLY unit (NanoPlus 1 HD) and Zeta ONLY unit (NanoPlus 2 HD).

Due to continuous improvements, specifications are subject to change without notice.