

SPECIFICATIONS

NanoPlus HD

NANOPLUS HD: ZETA POTENTIAL



Principle	Electrophoretic Light Scattering (ELS)
Scattering Angle	15° Forward-scattering (dilute) 30° Forward Scattering (concentrated)
Minimum Sample Volume	Standard Glass Cell: 0.7 mL, Disposable Cell: 130 µL
Concentration	0.001 to 40%
Measurement Range	Zeta: -500 to +500 mV Mobility: No Practical Range Limit
Laser Power	30 mW
Light Source	Semiconductor Laser Diode
Detector	HD Avalanche Photodiode
Laser Wavelength	660 nm
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	Optional accessory available for use with Low Conductivity solvents, i.e. Toluene, Benzene, Hexanes, etc.
Surface Zeta Potential Capable	Optional accessory available for determining zeta potential of flat surfaces, including Catalytic Plates, Fibers, Films, Wafers, Membranes, etc.

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