

## *High resolution Anisotropic nanoparticle size measurements*



*First instrument enabling  
anisotropic NPs characterization*

### IDEAL FOR

*Formulation stability  
Nanoparticle aggregation  
Emulsions dispersion  
Pharmaceuticals  
Petrochemicals  
Polymers  
Liposomes and bio-colloids  
Pigments and inks  
... and more*

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## Particle size for anisotropic particles

### SPECIFICATIONS

Particle size range	Particle size : 1 nm up to 1 $\mu$ m
Sample concentration	0.0001% to 10% w/% (solvent dependent)
Temperature control range inside the cell	10°C to 70°C; +/-0,1°C (depending on cuvette cell material)
Sample cell	
Sample volume	
Sample type	Aqueous & organic solvents; pH: 1-14 (depending on cuvette cell material)
Anisotropic range	Anisotropic Ratio from 2 to 100

### SIGNAL PROCESSING

Measurement technology	Dynamic Light Scattering (DLS)
Polarization	VV - VH
Laser source	Highly reliable 50 mW diode @635 nm coupled to automated optical attenuation system. Other wavelengths available upon request.
Measurement angles	Particle size : 170° (backscattering) and 30°
Data processing algorithm	Real time correlation (DLS)
Detector	Avalanche Photodiode (APD)

### HARDWARE

Computer interface	USB 2.0 – Windows 10 32 & 64 bits
Dimensions	33 cm x 33 cm x 38 cm (HWD)
Weight	17 kg
Power supply	100-115/220-240 VAC, 50/60 Hz, 100 W max

### SYSTEM COMPLIANCE

CE certification	CE marked product - Class I laser product, EN 60825-1:2001, CDRH
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