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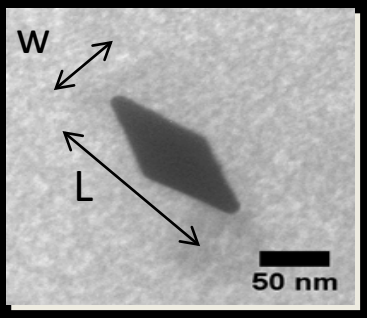
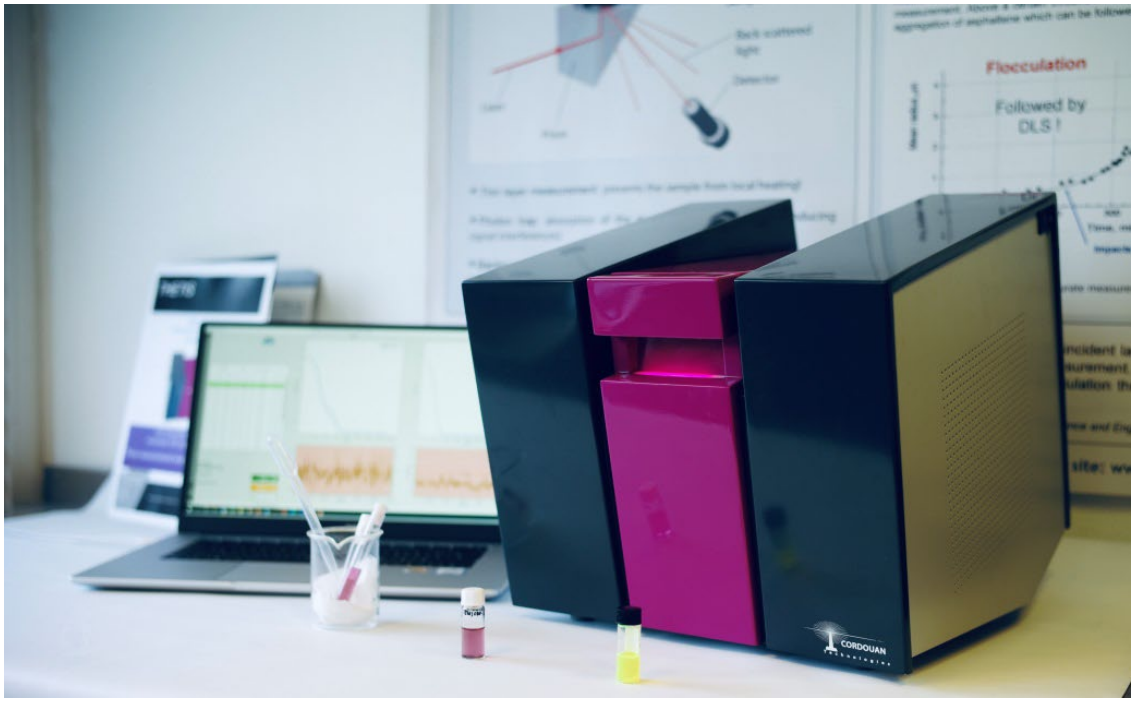


High Resolution & Multi-angle Light scattering Characterization of ANISOTROPIC NPs



- DLS, SLS & DDLS measurements combined in one instrument!
- Continuous multiangle from 30° to 160°
- Time resolved measurements: 200 msec resolution

Nanotube (CNT)
Gold nanoparticles
Anisotropic virus
Magnetic particles
Nanorod

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Enlight the nanoworld

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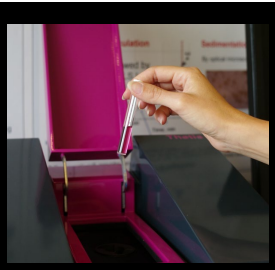
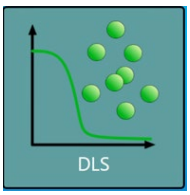
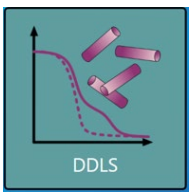


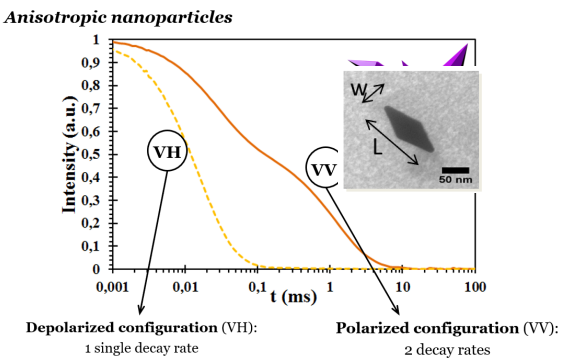
3 measurement modes in one instrument :

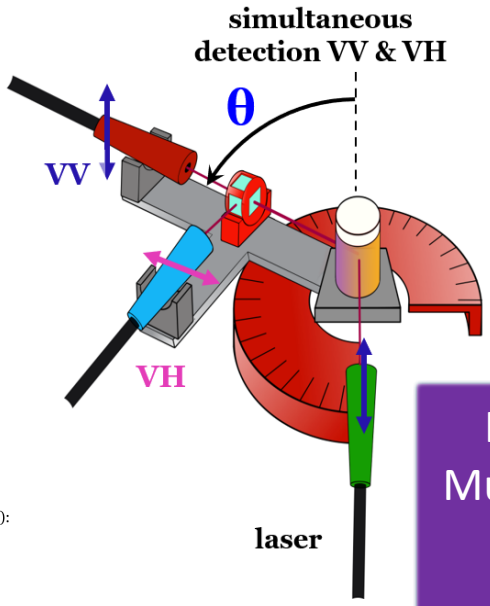
- Continuous Multi-angle SLS (Particle molecular weight, gyration radius)
- Time Resolved DLS (Particle size distribution),
- DDLS (Particle aspect ratio)





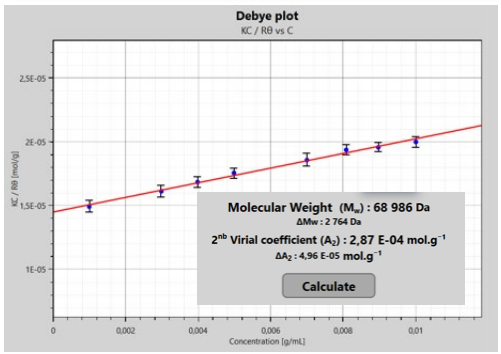
DDLS: Length & width/Aspect ratio measurements

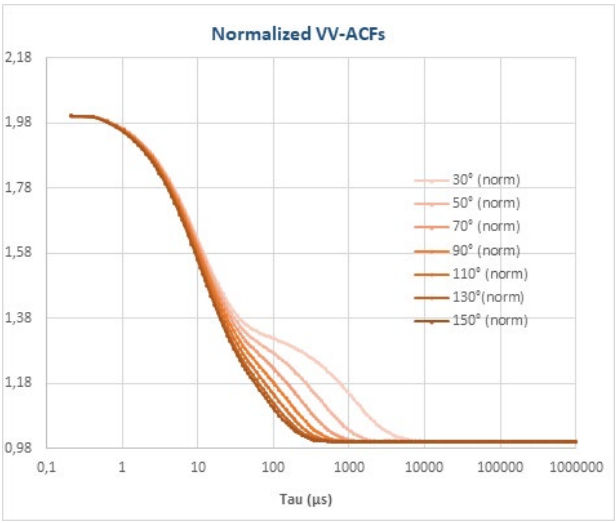




High resolution Multi-angle TR DLS: particle size measurements

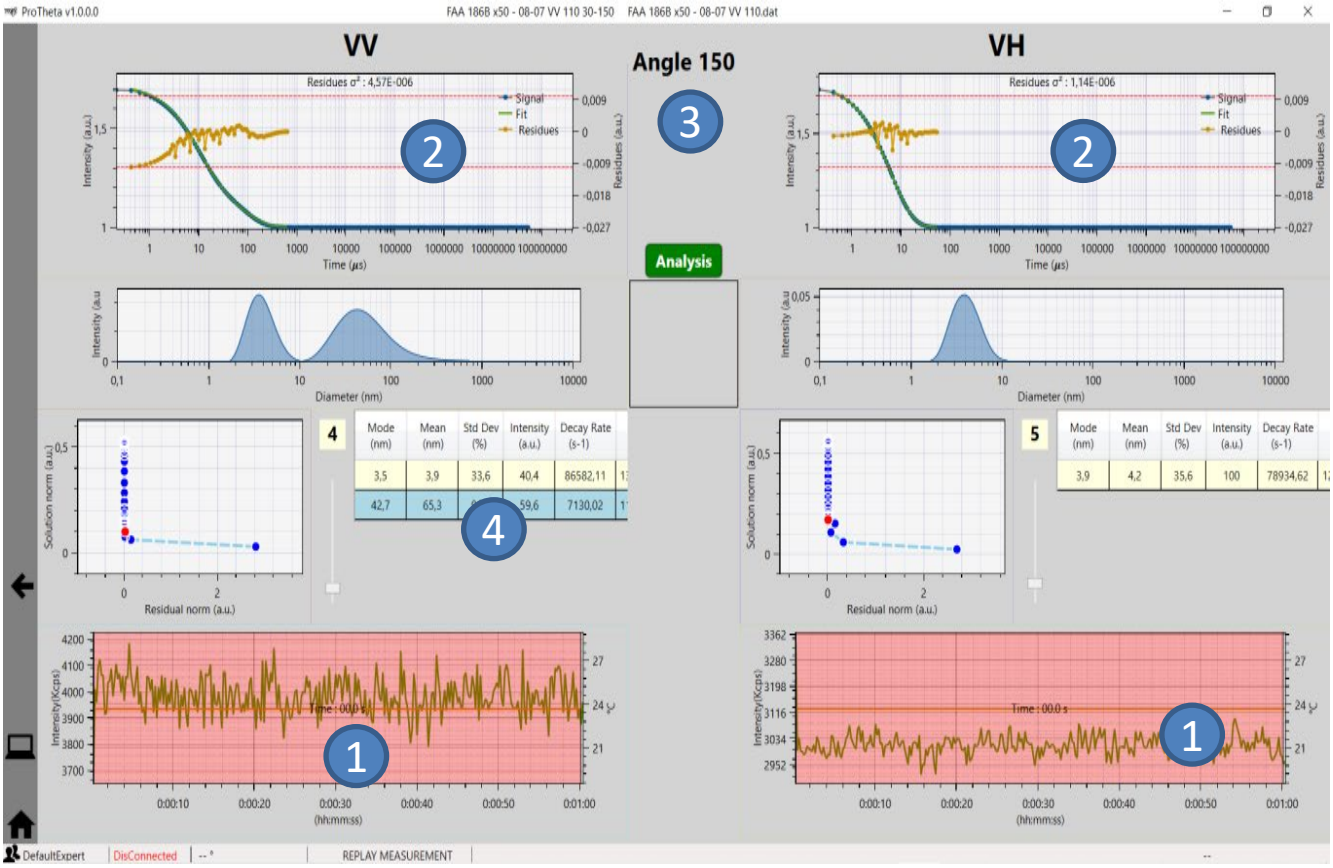
Multi-angle SLS measurements: Molecular weight, Gyration radius





THETIS,
the most compact & advanced Light scattering instrument for your lab

ProΘ™ Software



Advanced functionalities & intuitive menus

1- Time resolved D-DLS
2- Both VV and VH measurements
3- User selected/automatic scattering angle setting
4- Automatic calculation of length, width and Aspect ratio / Rotational and Translational Diffusion Coefficient measurements

THETIS™

Main characteristics

SPECIFICATIONS	
Particle size range	Particle size : 1 nm up to 1 µm
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	Cell : optical quality QS cylindrical ; 10 mm light path;
Sample volume	>400 µL
Sample type	Aqueous & organic solvents; pH: 1-14 (depending on cuvette cell material)
Anisotropic range	Anisotropic Ratio from 2 to 100
MEASUREMENT CONFIGURATION & PROCESSING	
Measurement technology	Static Light Scattering (SLS), Depolarized Dynamic Light Scattering (DDLS)
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	All angles from 30° to 150°, step =< 0,1°
Data processing algorithm	Real time and Time resolved autocorrelation (TR -DLS)
Detector	High sensitivity Avalanche Photodiode (APD)
GENERAL	
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

Distributed by:

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