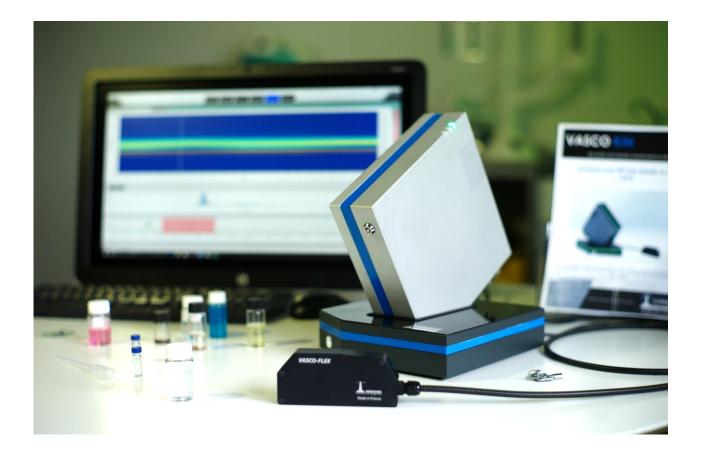


THE MOST ADVANCED NANOPARTICLE SIZE ANALYZER

Real Time Correlation for Time-Resolved analyses



For monitoring of NPs synthesis, agglomeration or suspension stability study, Vasco Kin[™] helps you analyzing your Kinetics in real time !

IDEAL FOR

- Real-time nanoparticle synthesis process monitoring,
- In situ measurement (inside reactor)
- Coupling particle size measurements with other instruments (SAXS, spectroscopy, etc),

www.cordouan-tech.com



Enlight the NanoWorld

VASCO KIN A new generation of Time - Resolved instrument for accurate kinetic analyses

CUTTING-EDGE TECHNOLOGIES

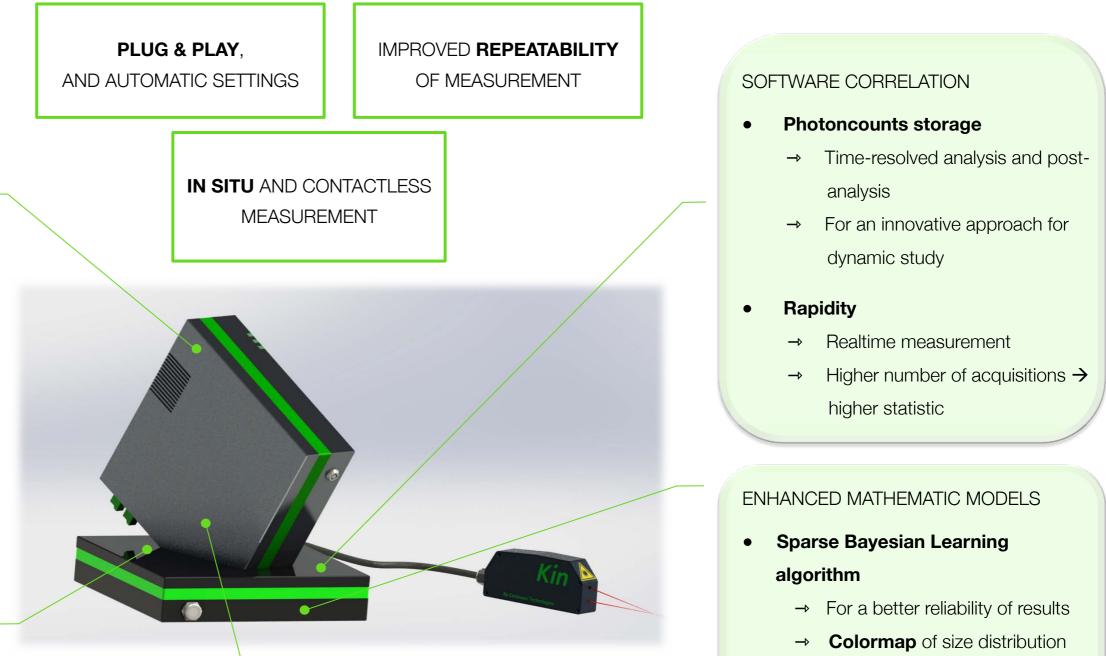
- **Frequency stabilised Laser** •
- Artefact-free Avalanche Photodiode (APD) detector
 - High measurement accuracy →
 - Measurement of diluted & sub-→ nanometer samples (i.e. proteins)



- Complete & user-friendly software
- Dedicated to dynamic analysis
 - → With a unique « time slicing » function
 - → A Full report including kinetic analysis



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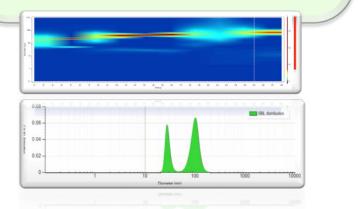


SMALL FORM FACTOR (SFF)

- OEM integrability, remote control
- Very small footprint ⇒



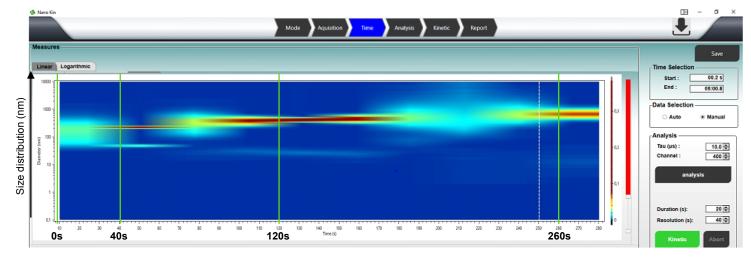
- over time



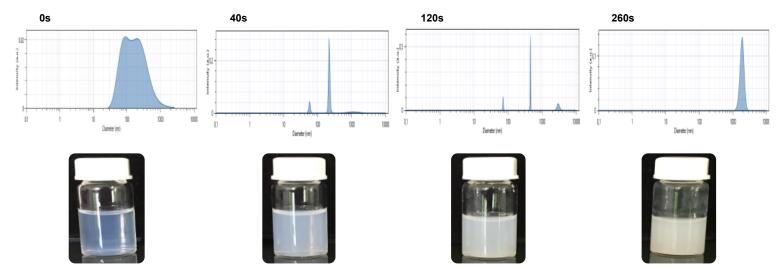
DYNAMIC SAMPLE TESTING

Example: **Kinetics study** of reaction and gel structure monitored by pH, salinity and particles concentration.





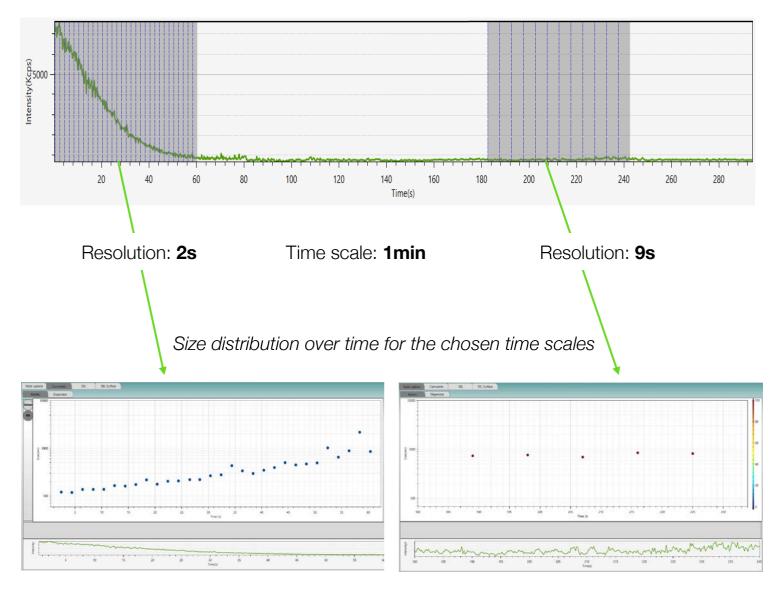
Size distribution for the chosen times



With a **single** and **continuous** measurement, VASCO KIN[™] gives you access to all characterization data of your reaction (size distribution evolution over time).

TIME SLICING AND ACCURATE MEASUREMENTS

The unique "time slicing" function allows VASCO KIN[™] users to **choose measurement's resolution**, by selecting **a posteriori** the analysis' time scale. Users then obtain corresponding correlogram & size distribution for the chosen time scale.



Example: *Historical data recorded*

High resolution for fast kinetics analysis

High measurement's stability over time



VASCO KIN

OPTICAL HEADS' SPECIFICATIONS				
Measurement principle	Optical Fiber Dynamic Light Scattering (DLS)			
Min. Sample Volume (µL)	<50 µL (cell dependant)			
Sample Cells	In situ – Contactless remote probe			
Solvent compatibility	Aqueous & Organic solvents (Cell dependent)			
Scattering Angle (°)	170°			
Particle size range	0.5 nm – 10 µm (sample dependent)			
Sample concentration range	10 ⁻⁵ % to 5~10% volume (sample dependant)			
Dimensions / Weight	50 x 25 x 120 mm (HWD) / < 0,5 kg			
HARDWARE SPECIFICATIONS (central unit)				
Laser source	High stability laser diode (option blue and green)			

Detector	Artefactfree Avalanche Photodiode (APD)
Computing	Embedded dedicated PC
Data processing	Correlation and analysis software: NanoKin [®]
Measurement time (typ)	Starting from 200 ms, depending on sample and measurement settings
Operating conditions / Storage conditions	15°C to 40°C / -10°C to 50°C – Relative humidity < 70% non condensing
Dimensions / Weight	220 x 220 x 64 mm (upper part) / 2,5 kg 220 x 220 x 48 mm (lower part) / 2,8 kg

SYSTEM COMPLIANCE	
CE certification	CE marked product – Class 3b laser product – EN-60825-1: 2001, CDRH
Normalization	ISO 13321 (1996) & ISO 22412 (2008) compliant, CFR 21 part 11 (option)
ACCESSORIES & SERVICES	
	4 voorvoorste op ste installation ond testing, peling gewongst

year warranty, on site installation and training, online support NanoKin® (already installed) & instruction manual Pelicase [™] transportation case (option) NIST Certified latex suspension kit (option) Monitor display, keyboard, mouse



Distributor details	

Contact: sales@cordouan-tech.com

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