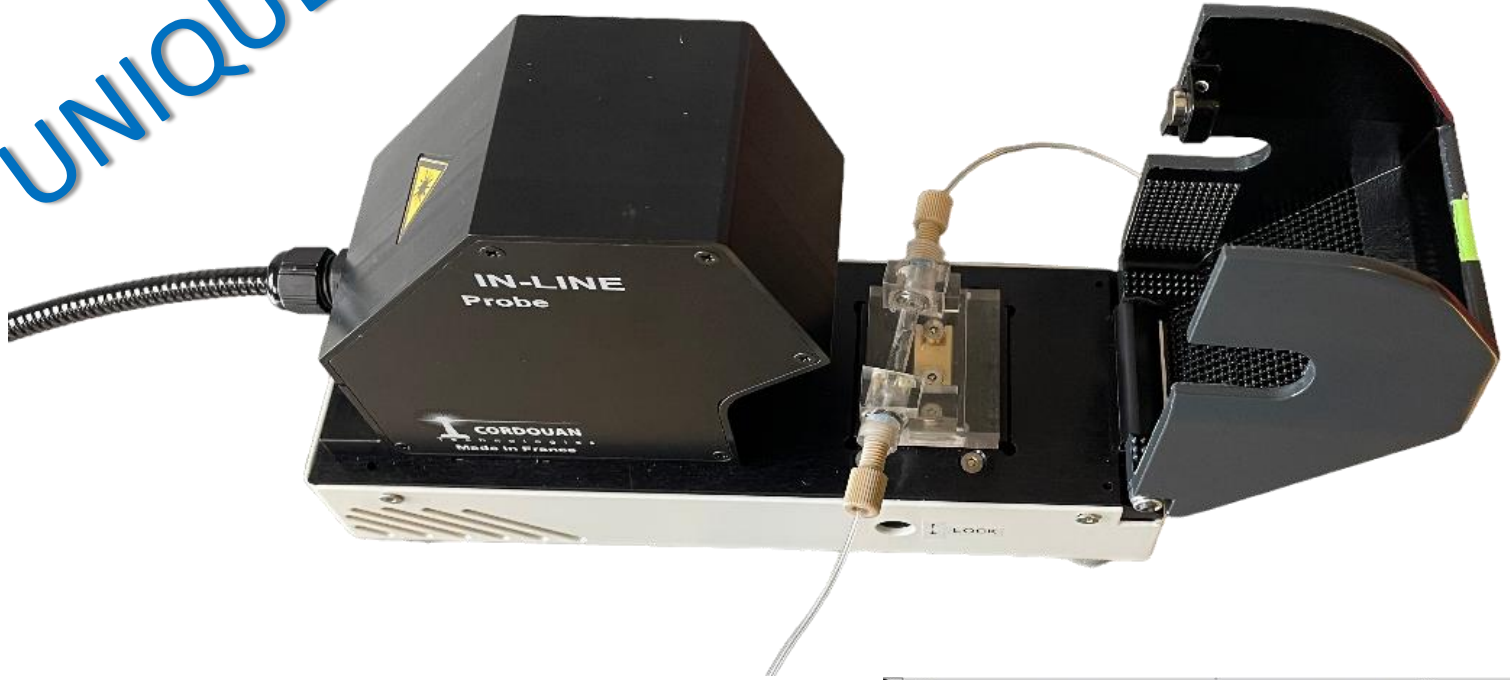


In Line Milli-fluidic remote DLS probe

For real time Nano-Particle size monitoring

UNIQUE

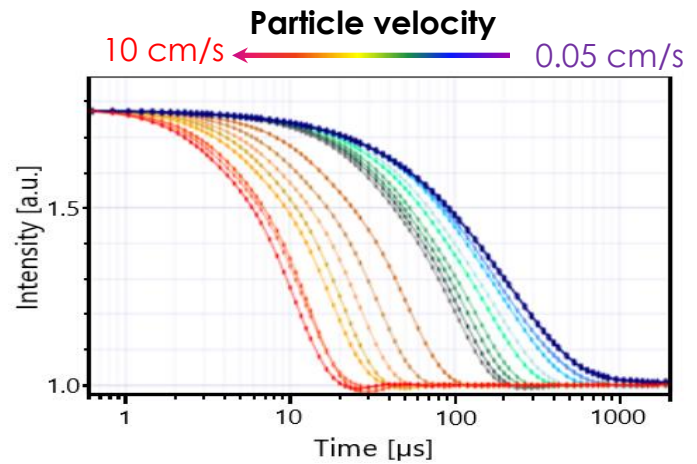
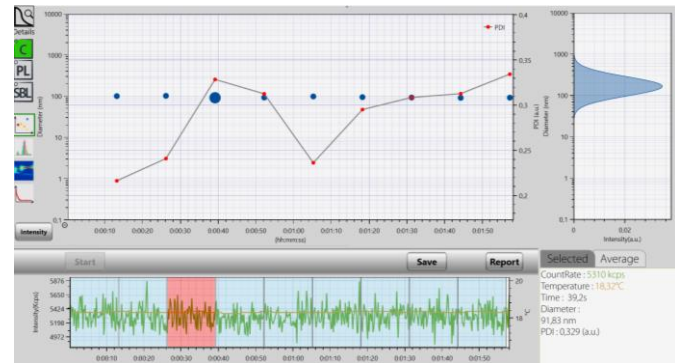


Easy coupling with other setups:

- ✓ Microfluidic chip
- ✓ A4F, SEC, HPLC Chromatography
- ✓ Nanoparticle synthesis chip
- ✓ Spectroscopy (UV/VIS, Fluo, Mass etc.)
- ✓ Recirculation system

Real Time process control:

- ✓ LNP synthesis/production bench
- ✓ CMP Slurries in-line quality control
- ✓ NP Sample formulation

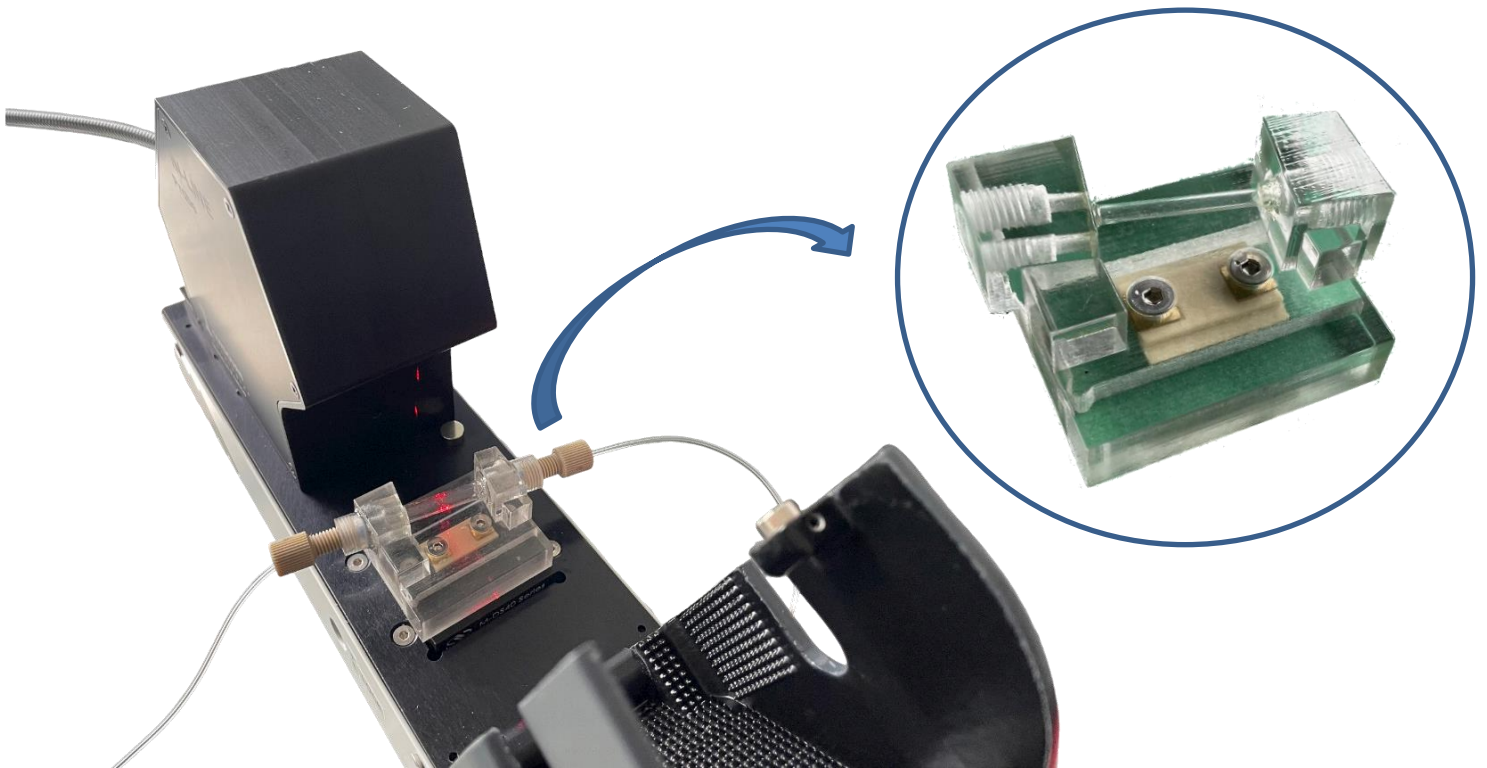


IDEAL FOR

- In-line measurements
- Size distribution of your formulation at the outlet of your microfluidic chip
- Real-time control of your formulation at various flow rates

Main characteristics & uses

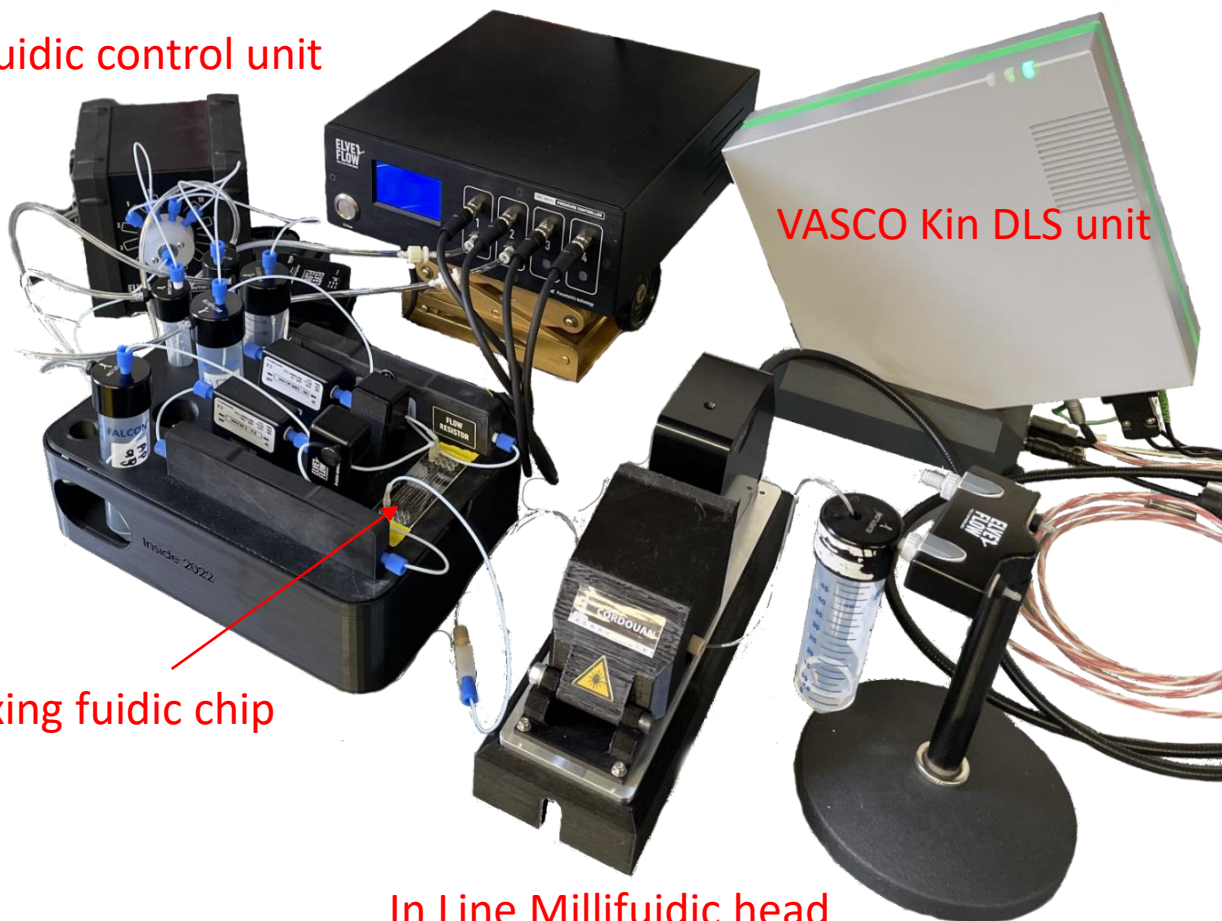
- Interchangeable glass millifluidic channels
 - ❑ Plug and play module (no alignment required)
 - ❑ Internal channel diameter fitted to your application (0,5-200 μ m)
 - ❑ Possibility to couple with microfluidic chip
 - ❑ Easy implementation in process line; compatible with standard tubing
 - ❑ No sample batching required : integrity and sterility preserved
- Easy to include in various experiments/applications
 - ❑ For industrial processes : process monitoring (ex: Slurries, LNP production)
 - ❑ For research purposes : coupling to analytic tools (A4F, SEC, fluidic chip, etc)
 - ❑ Optical fiber connection: compatible with **VASCO Kin** and **AMERIGO** devices



Innovative removable capillary holder concept for easy cleaning, replacement and maintenance

Example of use: In line & real time monitoring of Lipidic Nano Particle production

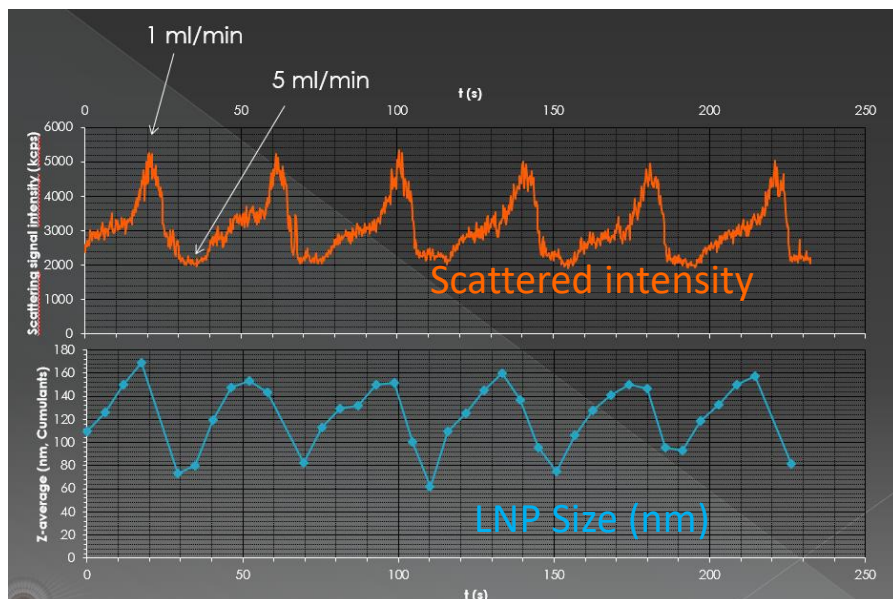
Millifluidic control unit



VASCO Kin DLS unit

Mixing fluidic chip

In Line Millifluidic head



Scattered intensity & LNP size evolution over time for two different fluidic flow rate

SPECIFICATIONS

OPTICAL HEAD SPECIFICATIONS

Measurement principle	Optical Fiber Dynamic Light Scattering (DLS)
Particle size range	0,5 nm – 10 µm (sample dependent)
Sample concentration range	10 ⁻⁵ % to 5~10% volume (sample dependent)
Scattering Angle (°)	130° *
Dimensions / Weight	145 x 85 x 265 mm (HWD) / < 1,0 kg

FLUIDIC SYSTEM SPECIFICATIONS

Sample Cells	Millifluidic glass channels of various diameters (500 µm – 30 mm) (optionally customizable)
Min. sample volume	<50 µL (channel dependent)
Solvent compatibility	Aqueous & Organic solvents (channel dependent)
Sample flow rate range	0,01-20,0 ml/min (sample and capillary- diameter dependent)
Options	Dilution & recirculation system



Distributor details

Contact:
sales@cordouan-tech.com

11, avenue de Canteranne
33600 Pessac – France
Tel +33 (0)556 158 045
Fax +33 (0)547 747 491



@ CordouanTech



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