

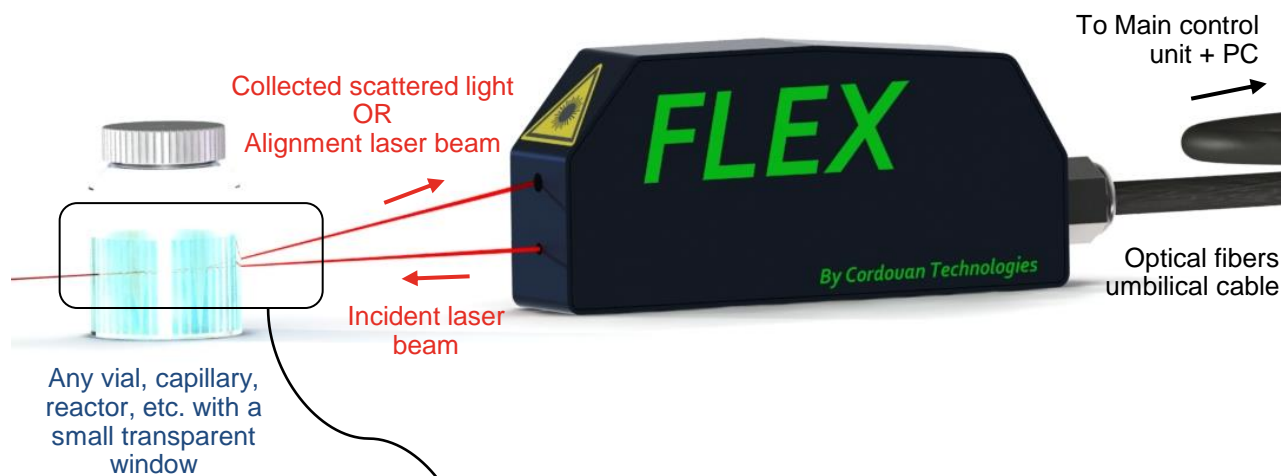
# VASCO FLEX

THE *IN SITU* NANOPARTICLE SIZE ANALYZER

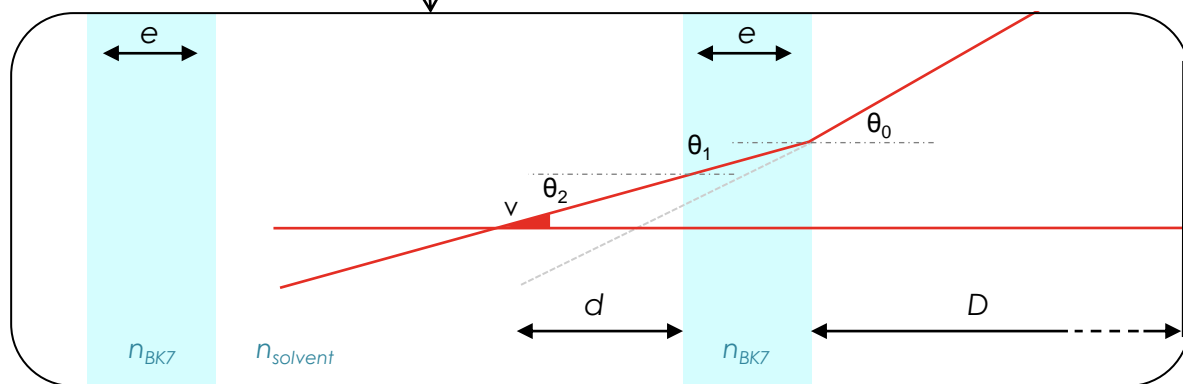
## ★ Innovative Technology

### VASCO Flex remote head

for contactless *in situ* nanoparticle size monitoring



Any vial, capillary, reactor, etc. with a small transparent window



$e$  : wall thickness (up to 5 cm)

$d$  : distance between the interface glass / sample and the focus point

$v$  : studied volume (up to 2  $\mu\text{m}$ )

$D$  : distance between the front face of the cell / capillary and the output face of the remote head

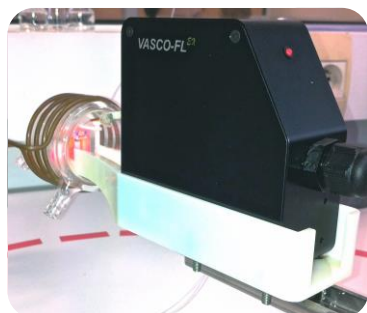


Enlight the NanoWorld

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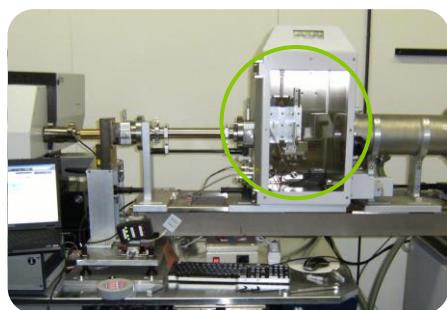
## ★ Innovative Applications & Partnerships



### Magnetic hyperthermia experiments with *in situ* particle size monitoring

*Publication* : “Thermosensitive polymer-grafted iron oxide nanoparticles studied by *in situ* dynamic light backscattering under magnetic hyperthermia” , G. Hemery et al., J. Phys. D: Appl. Phys. 48 (2015) 494001 (13pp)

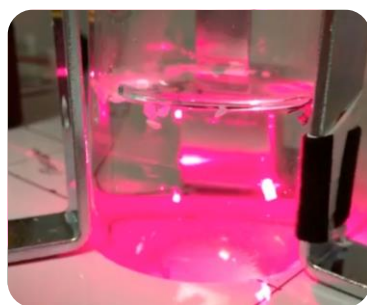
### Supercritical CO<sub>2</sub> synthesis reactor with *in situ* particle size monitoring / Measurement in high pressure autoclave



### Advanced instrumental coupling (i.e. combined SAXS / SANS + DLS measurement)

*Publication* : “Combining SAXS and DLS for simultaneous measurements and time-resolved monitoring of nanoparticle synthesis” , A. Schwamberger et al., Nuclear Instruments and Method in Physics Research B 343 (2015) 116–122

### Batch-free nanoparticle synthesis monitoring into jacketed glass reactor



### Ecotoxicology : real time detection of nanoplastics into seawater

*Publication* : “Marine plastic litters: the unanalyzed nano-fraction” , J. Gigault, B. Pedrono, B. Maxit and A. ter Halle, 2016, Royal Society of Chemistry, DOI: 10.1039/C6EN00008H

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