EPFL

How to use the Zetasizer Nano ZS ?

- Switch on the computer and log in on the local session .\dls_malvern with zetasizer@MHMC as password

- Login to: https://imxinstruments1.epfl.ch/cae/cae.html with your Gaspar credentials to switch on the instrument

- For disposable cuvettes : Fill in to approx. 1 cm from the bottom
For the DTS1070, fill it upside down until the bend to avoid bubbles and then to the fill max limit

- Open the Zetasizer Software

- Click on Measure then Manual

- Select the measurement type (Size or Zeta potential)

- Under Material, either choose an existing material or create your own but **do not modify an existing material**

- Same with Dispersant

- Leave the General options as default

- Temperature : set the measurement temperature (max 70°C) and equilibration time

- Cell : Select right cuvette (DTS1070 for Zeta potential)

- Measurement : Leave as default

- Press Ok then press the Start button

- During the measurement, check the Multi-view tab to have an idea of the quality of the measure (cf. Chapter 4 of the User Manual)

- Also, at the bottom right, check the Attenuator used (Attn:)

> o   Ideal range from 6 to 9.
> o   If > 9 sample too dilute and < 6 sample too concentrated

- Once you're done with your measurements, **empty the cuvette content in the liquid waste container**, and if using the DTS1070, wash it with MQ water

- Close the software and turn off the instrument on the CAE

**Molecular and
Hybrid Materials
Characterization
Center**

EPFL STI IMX LP
MXD 115
Station N° 12
CH - 1015 Lausanne

Phone :   +4121 693 28 49
E-mail :   yann.lavanchy@epfl.ch
Website :   epfl.ch/labs/mhmc