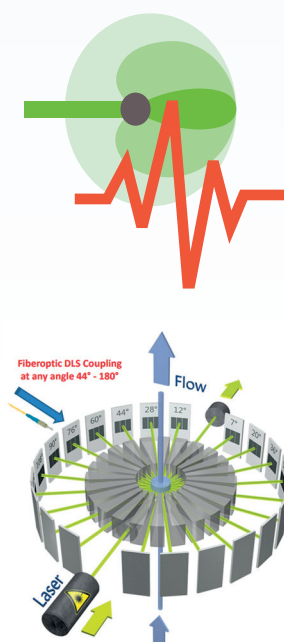# NovaDmax DLS Software

DLS Data Acquisition and Evaluation Software for PN3600 MALS Series

PN3712 Online DLS Detector

Fiberoptic DLS Coupling at any angle 44° - 180°

Flow

Laser

PN3600 Series Detector
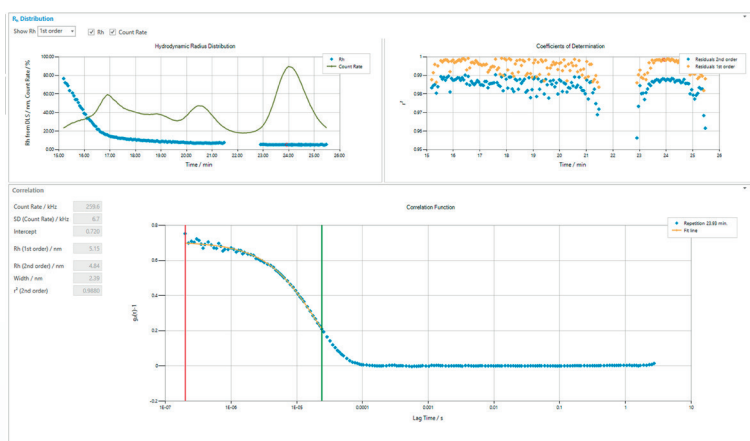
NovaDmax DLS Software

Features

NovaDmax is the novel DLS control and data processing software from Postnova Analytics. The software is used to control a DLS detector instrument and to perform dynamic light scattering (DLS) measurements by analyzing the fluctuations of scattered light of suspended particles. Signal data from a photon detector (APD), which is analyzed and processed by a hardware DLS correlator, can be visualized and recorded.

The software works in parallel and synchronized with Postnova's NovaFFF or NovaSEC instrument control software.

This means that individual runs or entire sequences can be loaded into the software and extended with the necessary settings, such as solvent viscosity or refractive index. The integrated solvent database is particularly helpful. This supports the user in searching for the correct parameters such as viscosity at the corresponding cell temperature. Users can also add their own solvents and respective parameters in the database.
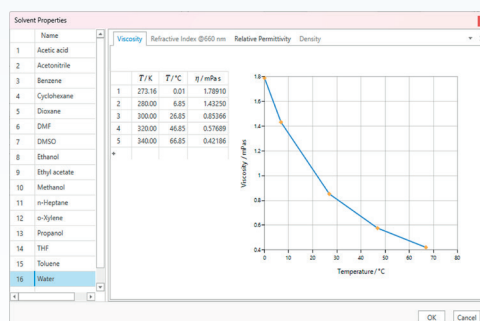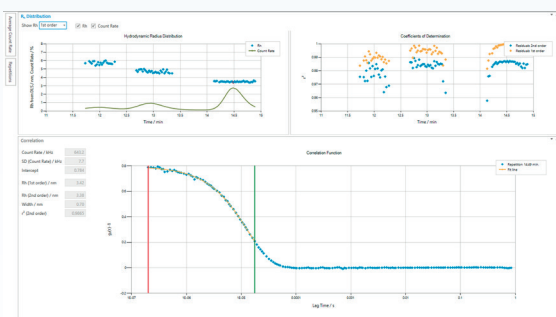
The evaluation according to the hydrodynamic radius (Rh) is based on the correlation functions provided by the hardware. Here, the software supports the user with corresponding preset filters and thus finds the best fit for an automatic calculation of the hydrodynamic radius. A manual intervention can be chosen if required. The software also provides the evaluation of the hydrodynamic radius according to first or second order, with the squared correlation coefficients plot supporting data evaluation. Thanks to the optimized evaluation routines, data across the full peak, even down to low concentrations, can be reliably evaluated.

Ordering Information

P-NVA-DLS-001	NovaDmax DLS Control Software for PN3712
S-DET-3712-001	Add-on Online DLS for PN3600 MALS

Specifications

Functions
- Host Communication Mode:
  USB 480 Mbits/s max data rate
- Software Algorithm:
  Cumulants Analysis
- Data Export:
  ASCII, CSV
- Counte Rate Monitor
- Data Safety:
  Project Audit Trail
- Graphical support for selecting repetitions

Data Analysis
- Automatic quality assessment of data
- Automatic determination of fit range
- Evaluation according to first and second order
- Evaluation of polydispersity
- Evaluation of width (Gaussian distribution)
- Qualitative statement regarding fit calculations

Import
- Sequence files from AF4, CF3, TF3, NovaSEC
- Run files from AF4, CF3, TF3, NovaSEC
- Dmax - File (Project data)
- mDat - File (DLS run data)

PC Requirements
- Windows 11 (64 bit) or higher
- Intel® Core® i5 – 14500 vPro
  recommended Intel® Core® i7 – 14500 vPro
- 16 GB RAM or more
- Color Display 1280 x 720
  recommended 1920 x 1080
- USB port
- Security Certification:
  SHA256/SHA1

Contact