“Particle Solutions” Software v. 2.3 Quick Start Guide

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Hardware Requirements

	Recommended Requirements
CPU	Dual Core or better
RAM	4 GB or better
Operating System	Windows® 7 through 10. The software is not compatible with Enterprise versions.
Screen Resolution	19”, 1440 x 900 or larger

Installing the Program

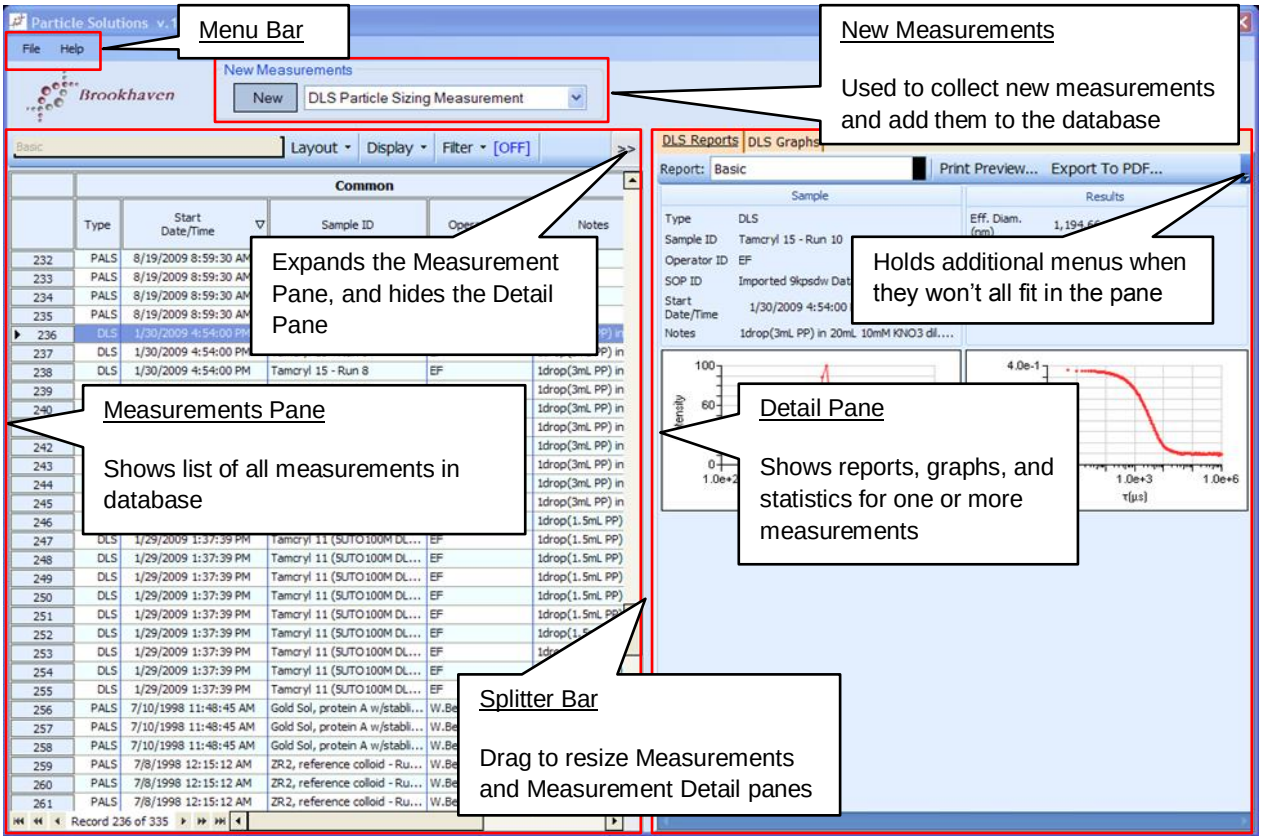
To install the program, you must run the setup program provided on the USB flash drive. You may also need to install some additional runtime support software, depending on the configuration of the computer being used.

Setup process is as follows:

1. Insert the USB flash drive.
2. In the resulting window, double-click the file named "PS_xxxxxx.exe" to run the executable which will begin the installation of the Particle Solutions software. Alternatively, you may right-click on the .exe file and select "Run" from the context menu. Here, "xxxxx" represents the version number.
    a. If a window does not open automatically upon inserting the flash drive, manually open File Explorer and select the USB flash drive from the left-hand side to view the contents.
3. If you get a message that begins with “Some of the prerequisite files required to run this application are missing…”
    a. Click “OK” to exit the setup program
    b. Run the DotNET Runtime Setup.exe program
    c. Run Setup.exe again
4. Follow the on-screen prompts to set up and install the Particle Solutions software.
5. The final screen of the setup program will ask if you want to run the Particle Solutions software. Also, a shortcut will be created for Particle Solutions in the “Brookhaven Instruments” section in the Start Menu.

If you encounter any issues with your installation, please contact Brookhaven Instruments for additional support at info@brookhaveninstruments.com. Please include the version number of your operating system and any errors you receive while attempting to install the software.

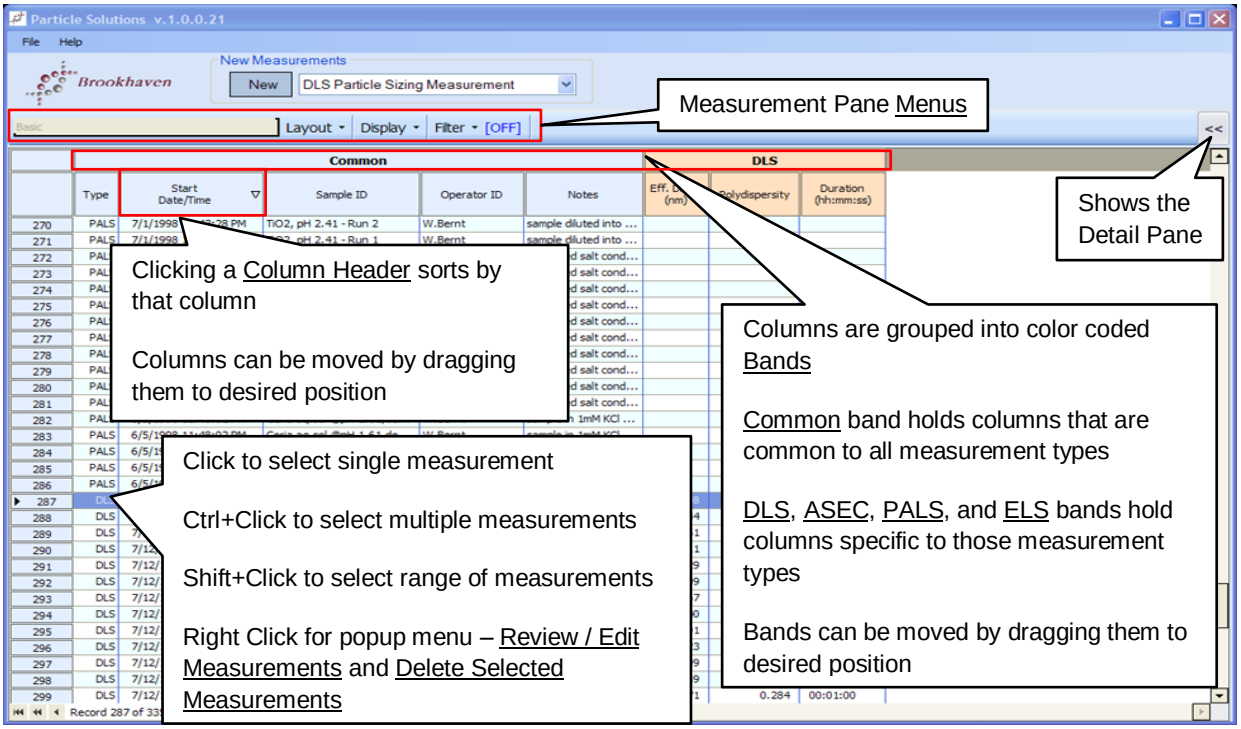
Overview of Main Window



Measurements Pane

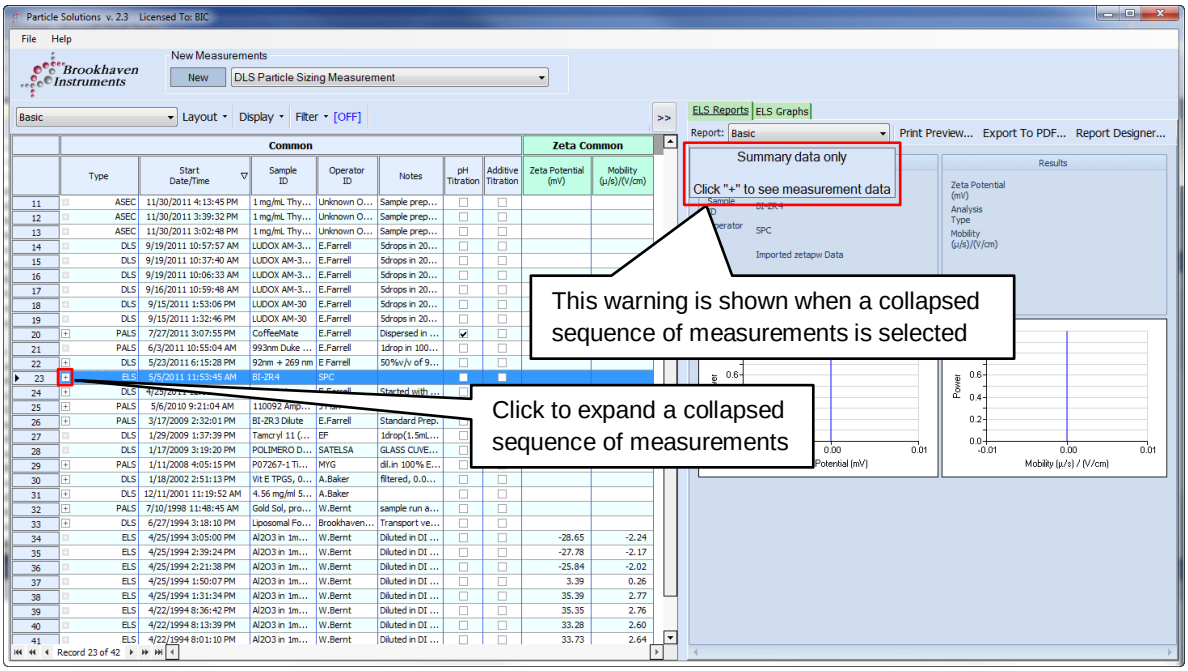
Overview

Note: Detail Pane is hidden for clarity



Sequences of Measurements

Measurements that are logically related - such as titrations - are grouped together.



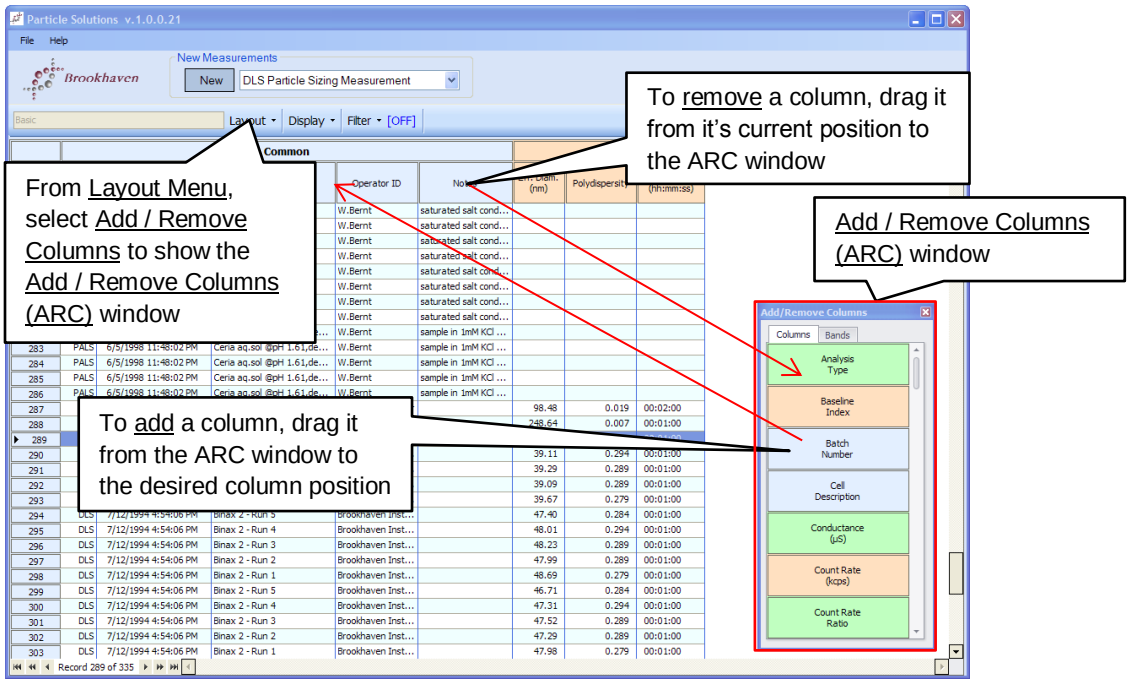
Menus

Layout Menu

The Layout Menu is used to manage column layouts in the Measurements Pane.

Resize All Columns	Resizes all columns so all text in visible columns and rows is fully displayed
Restore Default Sorting	If sort order of measurements has been changed by clicking on column headers, restores to default – by Start Date/Time, most recent first
Add / Remove Columns…	Shows the Add / Remove Columns (ARC) window.
Show All Columns	Shows all the columns defined for selected measurements
Save Current Layout As…	Saves the current column layout to a file
Delete Layout File…	Deletes a saved layout file. Standard layouts (Basic, Advanced, etc) cannot be deleted

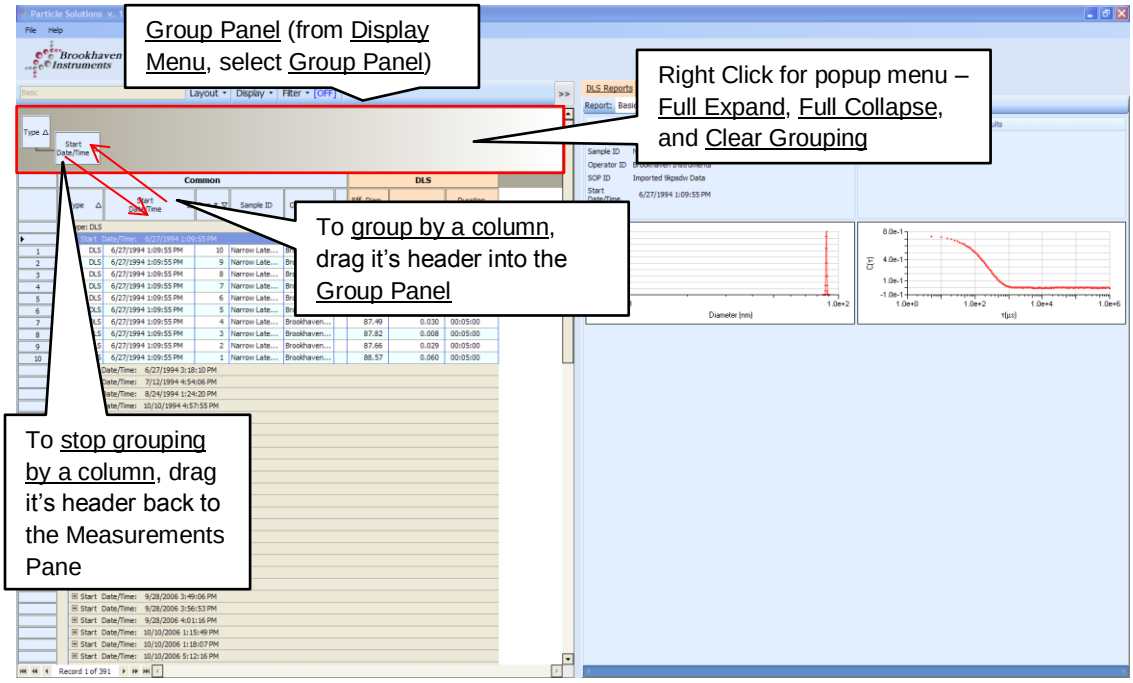
Adding / Removing Columns



Display Menu

All Measurements	Displays all measurements in the database
Selected Measurements Only	Only displays measurements that were previously selected by the user
Group Panel	Shows or hides the Group Panel, which can be used to group measurements that have the same values in one or more columns

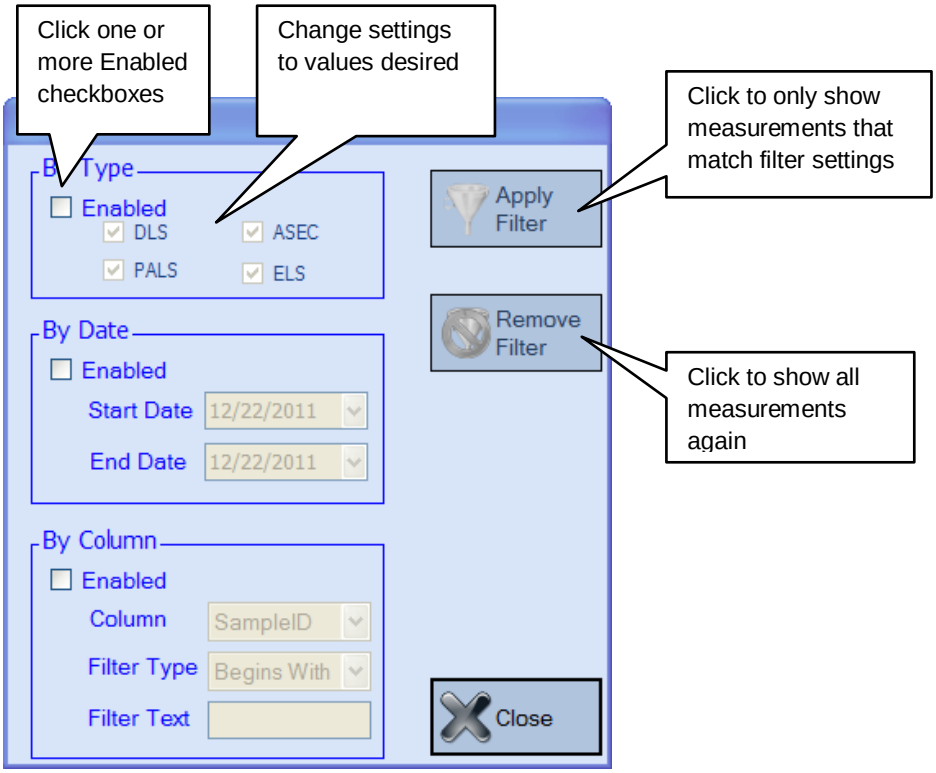
Group Panel



Filter Menu

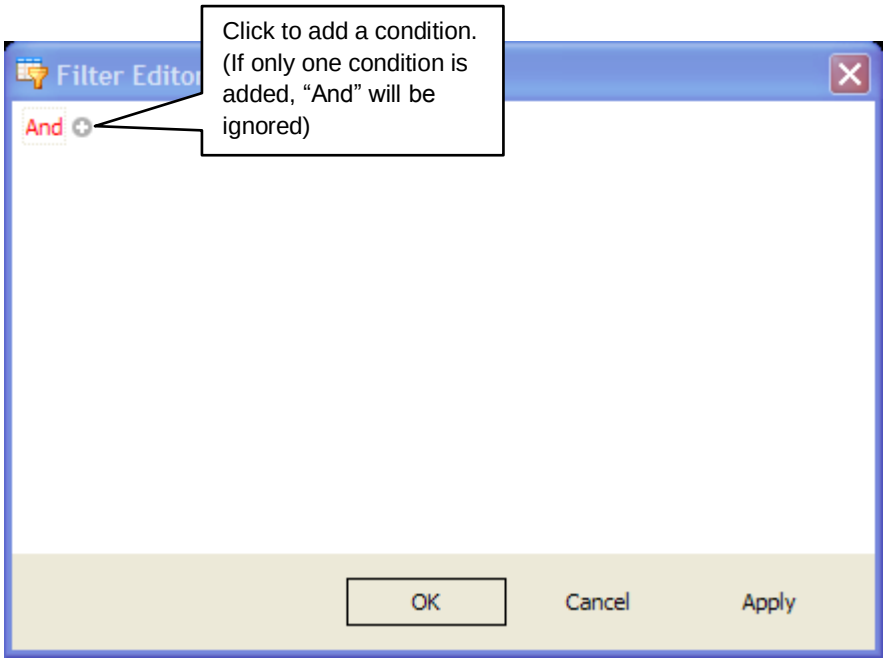
Basic Filter	Shows a filter window designed for basic filtering of measurements – by type, by date, and by column
Advanced Filter	Shows a filter window designed for advanced filtering of measurements. Complex filters can be created using any columns, ranges of column values, and logical operators
Remove	Removes all filtering – both basic and advanced

Basic Filter

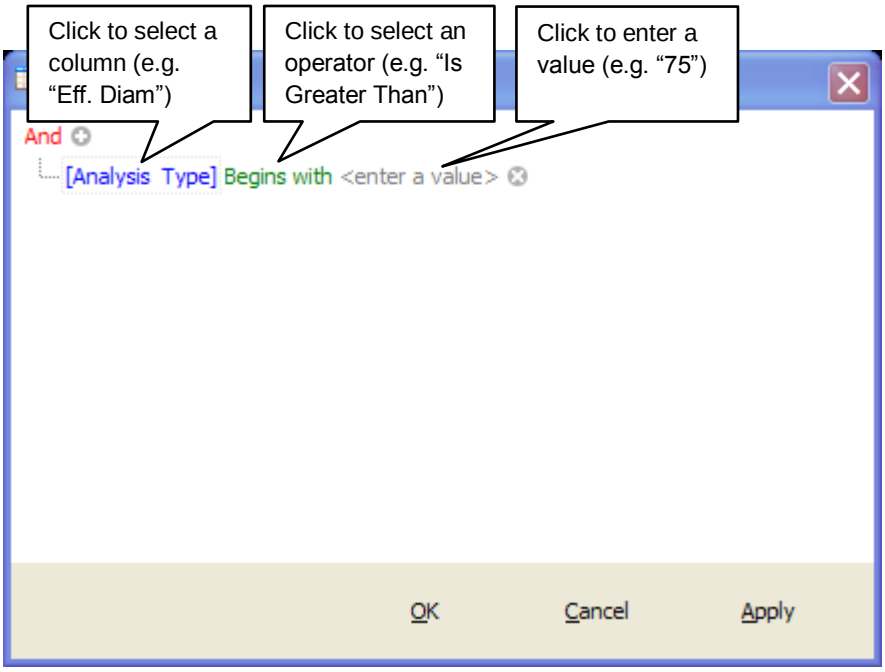


Advanced Filter

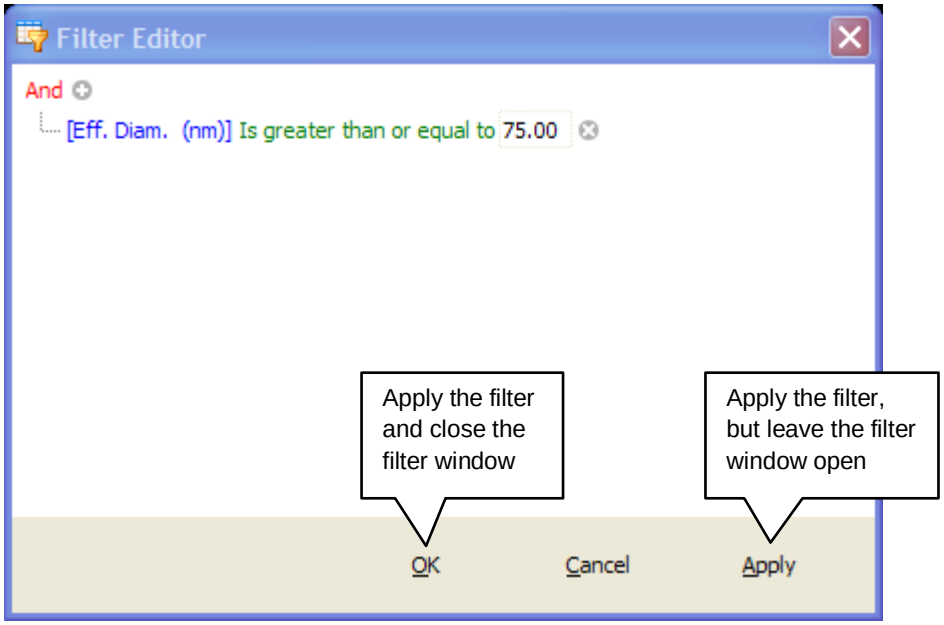
Step 1



Step 2

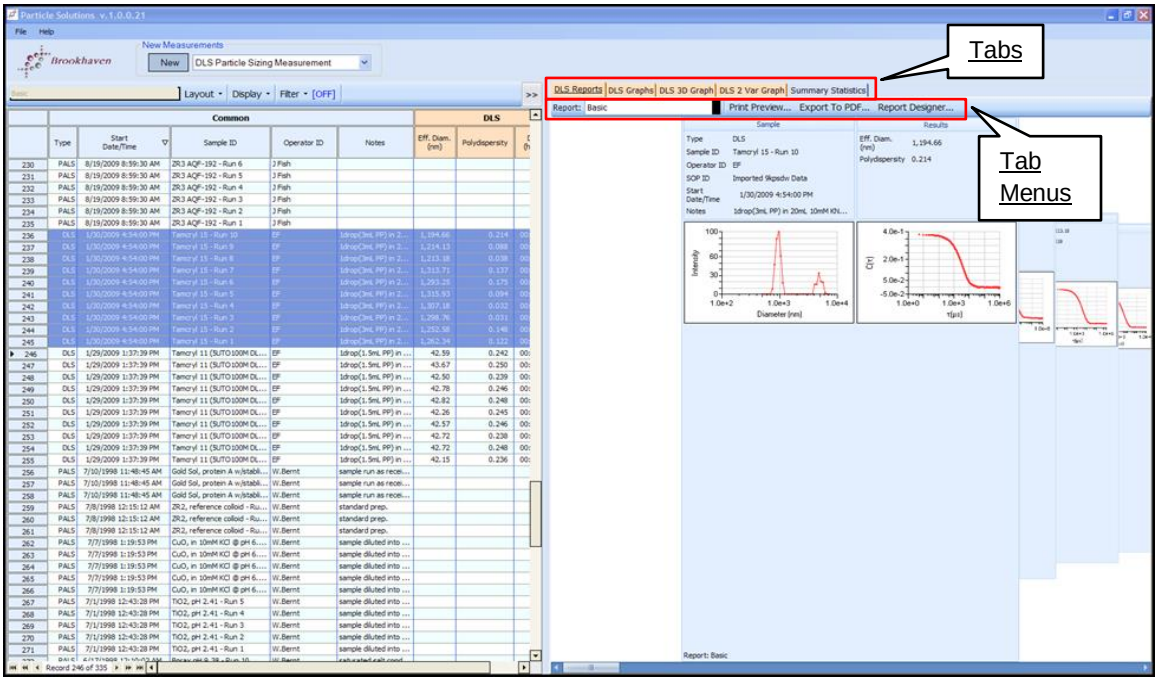


Step 3

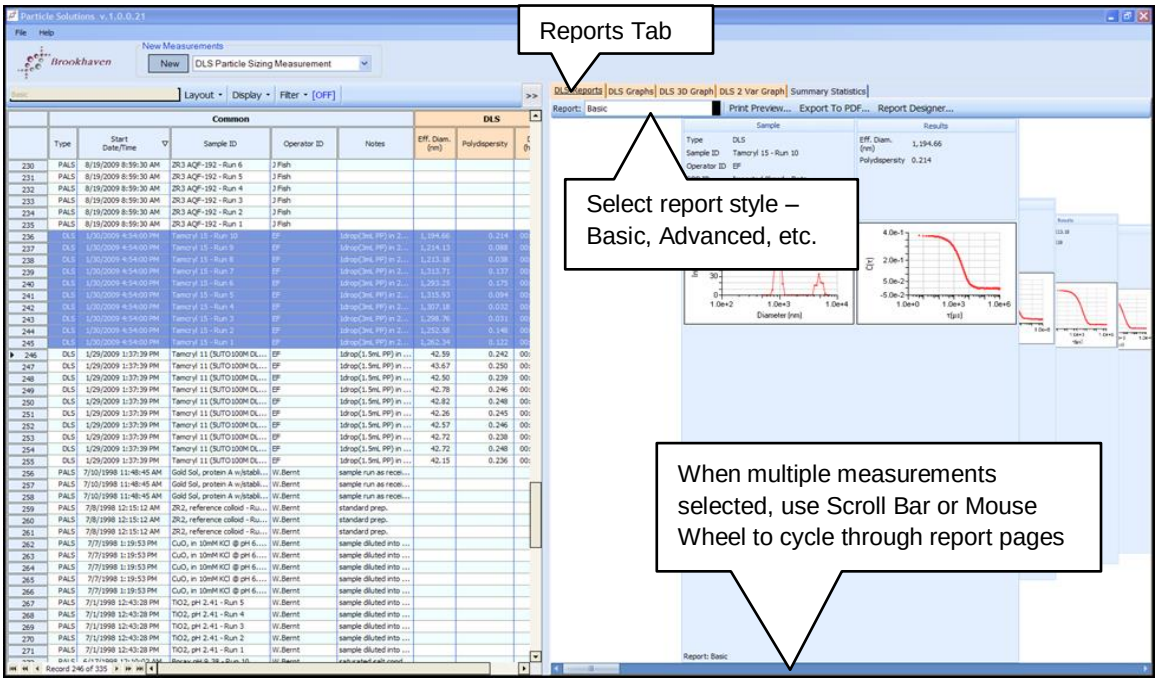

Filter Editor
And
[Eff. Diam. (nm)] Is greater than or equal to 75.00
Apply the filter and close the filter window
Apply the filter, but leave the filter window open
OK
Cancel
Apply

Detail Pane

Overview



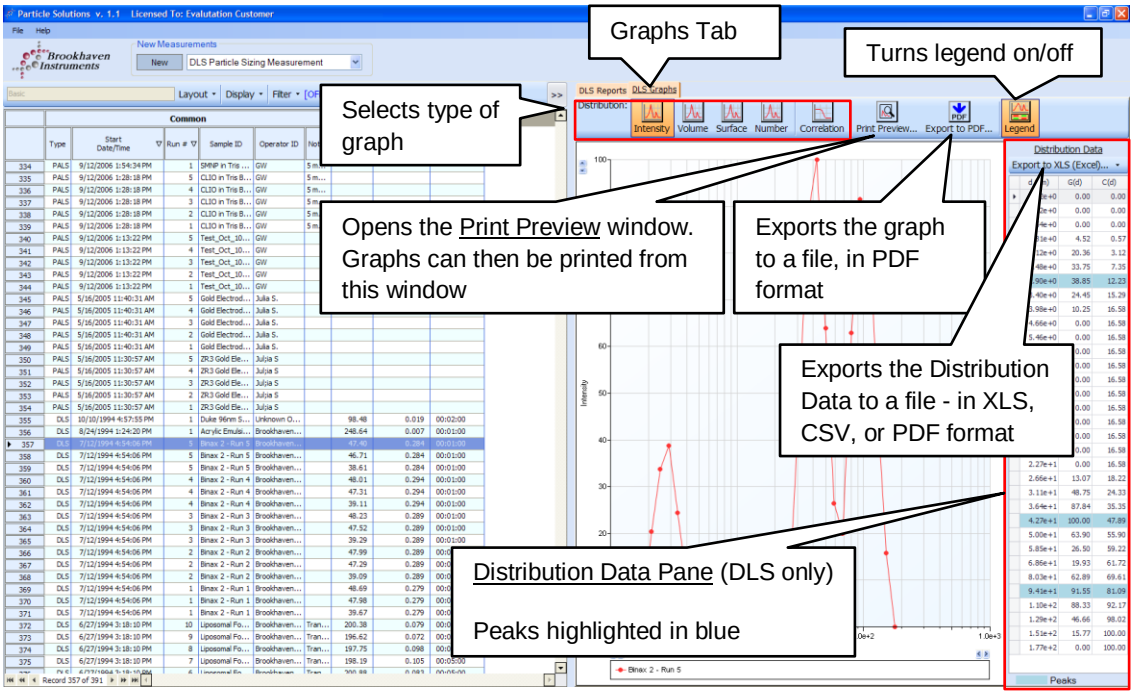
Reports Tab



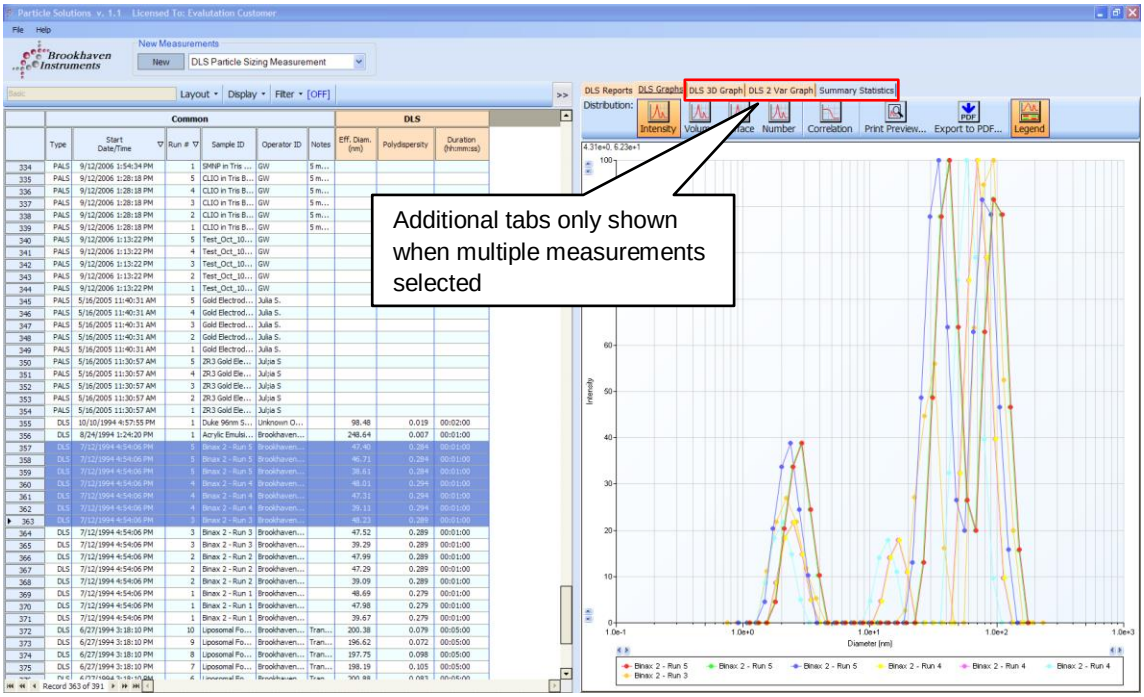
Reports Tab Menu

Print Preview…	Opens the Print Preview window. Reports can then be printed from this window
Export to PDF…	Exports the reports to a file, in PDF format
Report Designer…	Opens the Report Designer window

Graphs - Single Measurement Selected

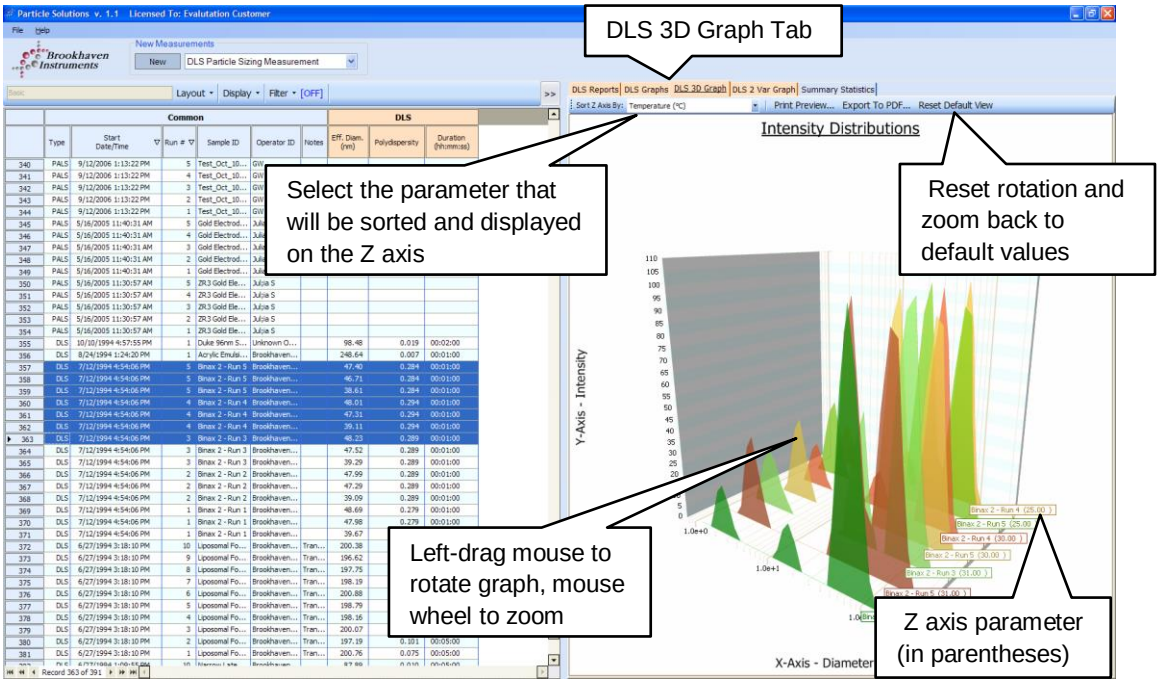


Graphs - Multiple Measurements Selected



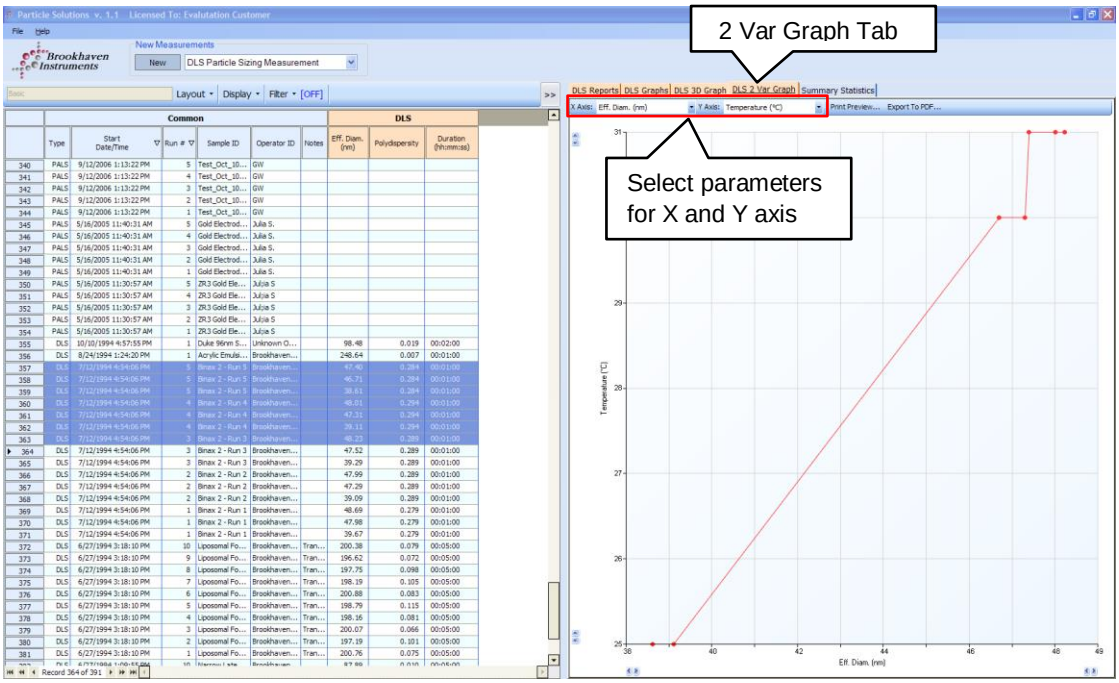
DLS 3D Graph Tab

Note: Only shown when multiple DLS measurements selected



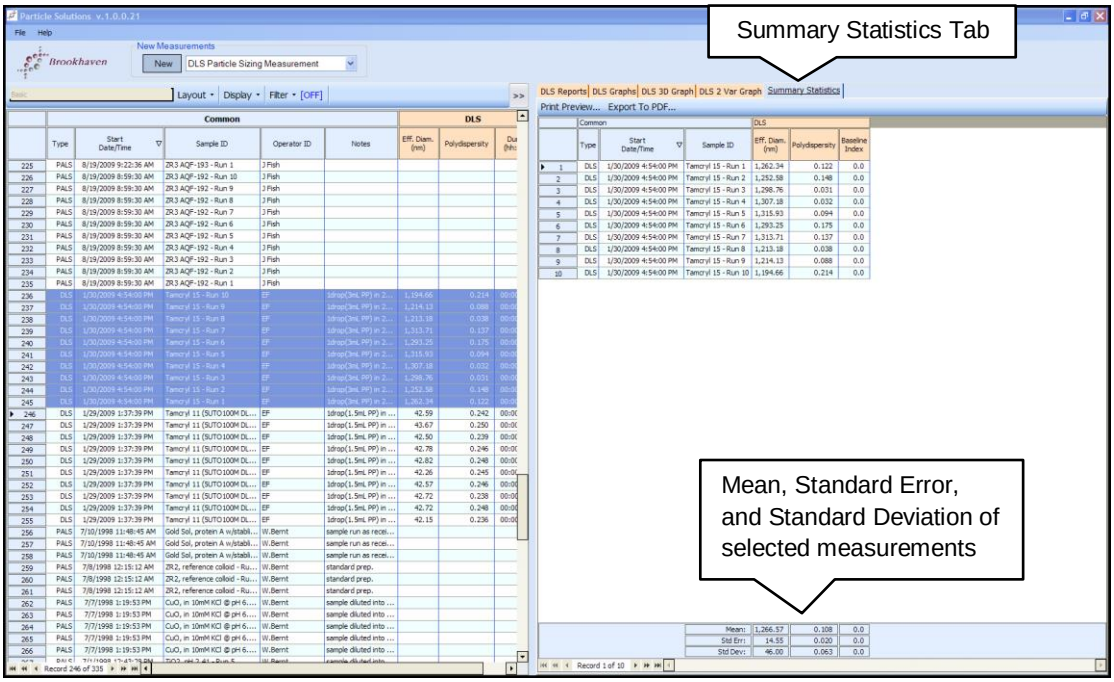
2 Var Graph Tab

Note: Only shown when multiple measurements are selected



Summary Statistics Tab

Note: Only shown when multiple measurements are selected

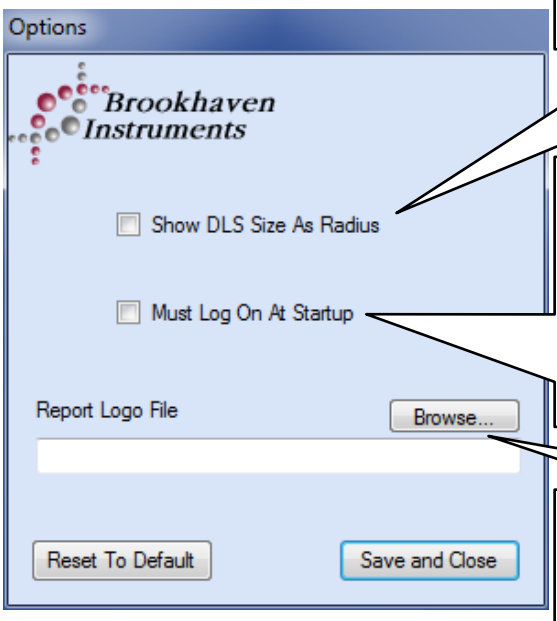


Menu Bar

File Menu

Import Legacy Database…	Imports measurements made with earlier versions of Brookhaven software into the Particle Solutions database
Export	Exports the selected measurements to Excel or CSV text files
Save Archive File…	Saves selected measurements to an archive file, using a proprietary binary format
Load Archive File…	Load a saved archive file, and add it's measurements to the database
Rebuild Database…	Rebuild and re-index the Particle Solutions database
Options…	Show the Options window
License…	Show the License window

Options



When checked, all size values in DLS measurements are shown as radius values.

When unchecked, all sizes are shown as diameters.

When checked, the program will show a Log On screen when it is first run.

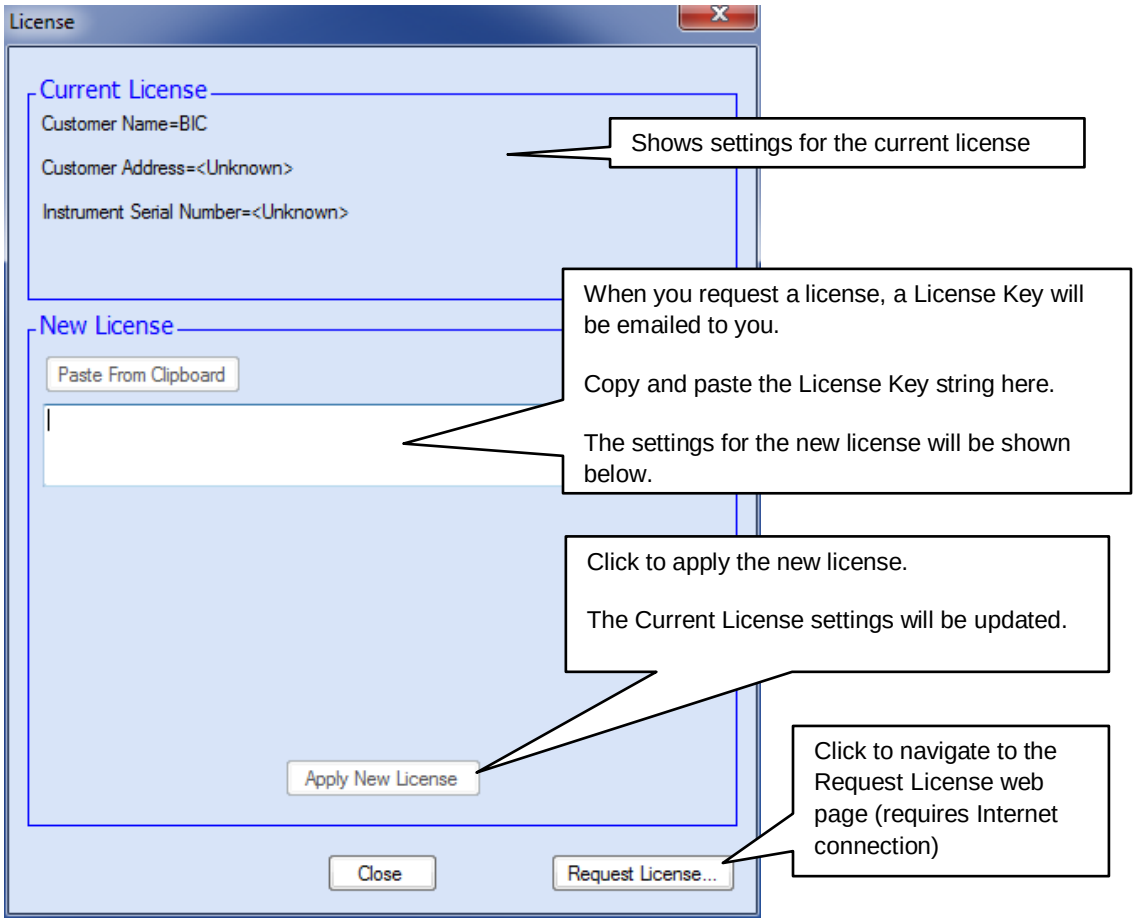
Operators must enter an ID string before they can continue using the program.

When unchecked, automatically logged on as "Unknown Operator.

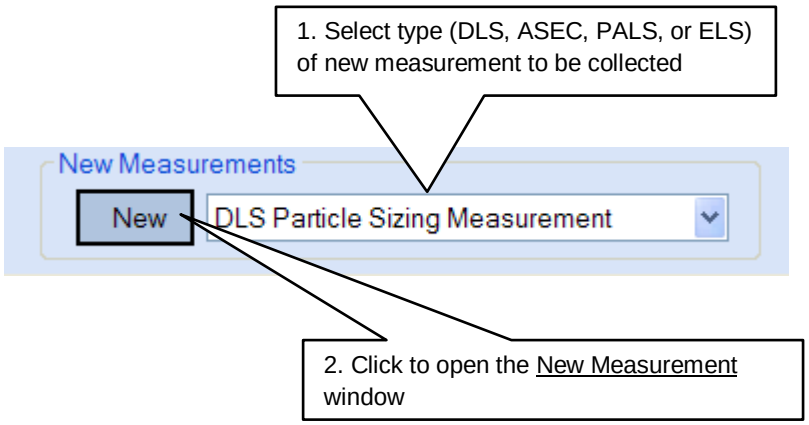
Use this to select an image file that will be used as the logo on all printed reports.

Note: Higher resolution images (i.e. 200H x 200V or greater) will produce better results when printed.

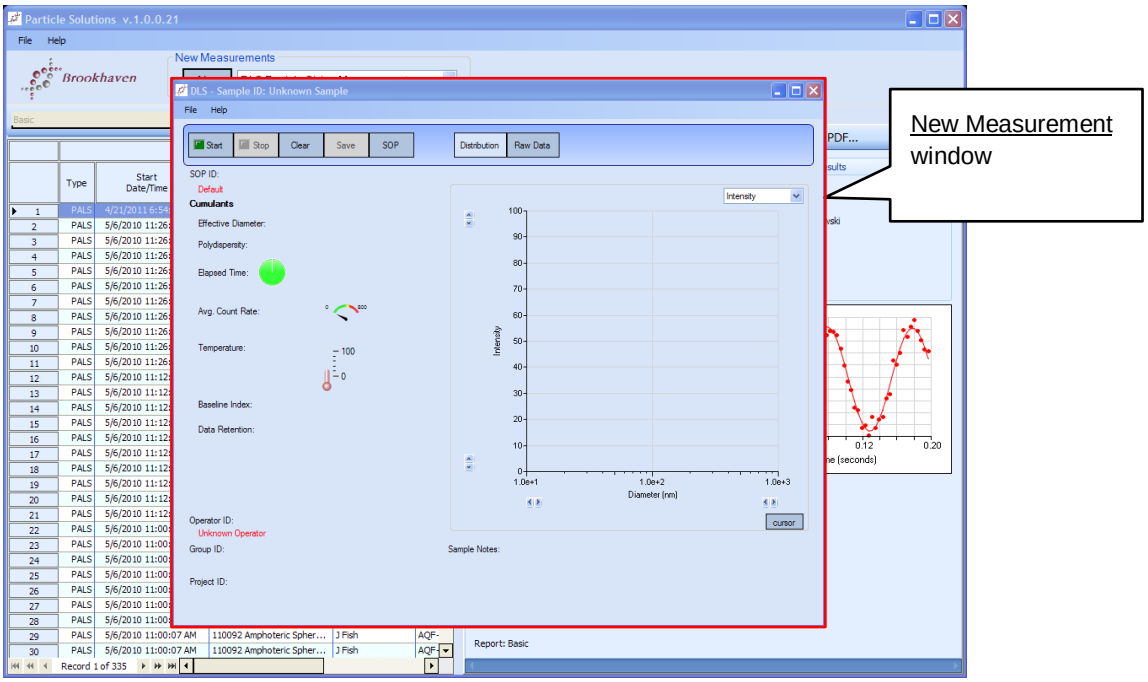
License


License
Current License
Customer Name=BIC
Customer Address=<Unknown>
Instrument Serial Number=<Unknown>
Shows settings for the current license
New License
Paste From Clipboard
When you request a license, a License Key will be emailed to you.
Copy and paste the License Key string here.
The settings for the new license will be shown below.
Click to apply the new license.
The Current License settings will be updated.
Apply New License
Click to navigate to the Request License web page (requires Internet connection)
Close
Request License...

New Measurements



New Measurement Window



Note: For details on collecting new measurements, please refer to:

- DLS Measurement Quick Start
- ASEC Measurement Quick Start
- PALS Measurement Quick Start
- ELS Measurement Quick Start

These can be opened from the Help -> Quick Start Guide… menus in the respective New Measurement windows.