

## DynaPro – Wyatt

Plate Reader III & NanoStar

### INTRODUCTION

The Lumetics LINK™ software platform scans network locations for new measurement data files, copies data directly to a centralized database, and provides a powerful user interface for rapid multi-measurement multi-technique data aggregation, visualization, analysis, and reporting. LINK employs a client/server-based architecture where the LINK server hardware is provided by the end user and resides on the end user’s network. The LINK client is a portable web-based application that may be placed on any computer with network connectivity to the LINK server. For successful import, the LINK webserver requires read access to the folders where user data resides.

DynaPro is a unique cuvette based DLS instrument used for the analysis of proteins, promiscuous inhibitors, micelles, quantum dots, liposomes, metallic nanoparticles and more.

### DETAILS

LINK requires the CSV Data Table/Peak Data, where columns “item” or “measurement number” are required for csv export. The Intensity.csv, Mass.csv and Autocorrelation.csv data files are each optional. These files must be exported from the DYNAMICS software.

The DynaPro CSV Table Data file example is as follows:

	A	B	C	D	E	F	G	H	I	J	K
1	Item	Intensity (Cnt/s)	DLS Temp (C)	Radius (nm)	%PD	Mw-R (kDa)	Amplitude	Baseline	SOS	Range1 Radius (I) (0.1-10nm)	Range1 %Pd (I)
2	Sample A	803246	22.4	3.8	4.2	76	0.205	1	0.028	4	20.5
3	Sample B	829224	22.6	3.8	3.6	76	0.2	1	0.053	4	18.2
4	Sample C	942836	22.7	3.8	3.6	77	0.196	1	0.024	4	15.2
5	Sample D	945682	22.8	3.8	3.1	76	0.201	1	0.038	3.8	11.2
6	Sample A	948860	22.9	3.8	2.3	74	0.185	1	0.045	3.9	12

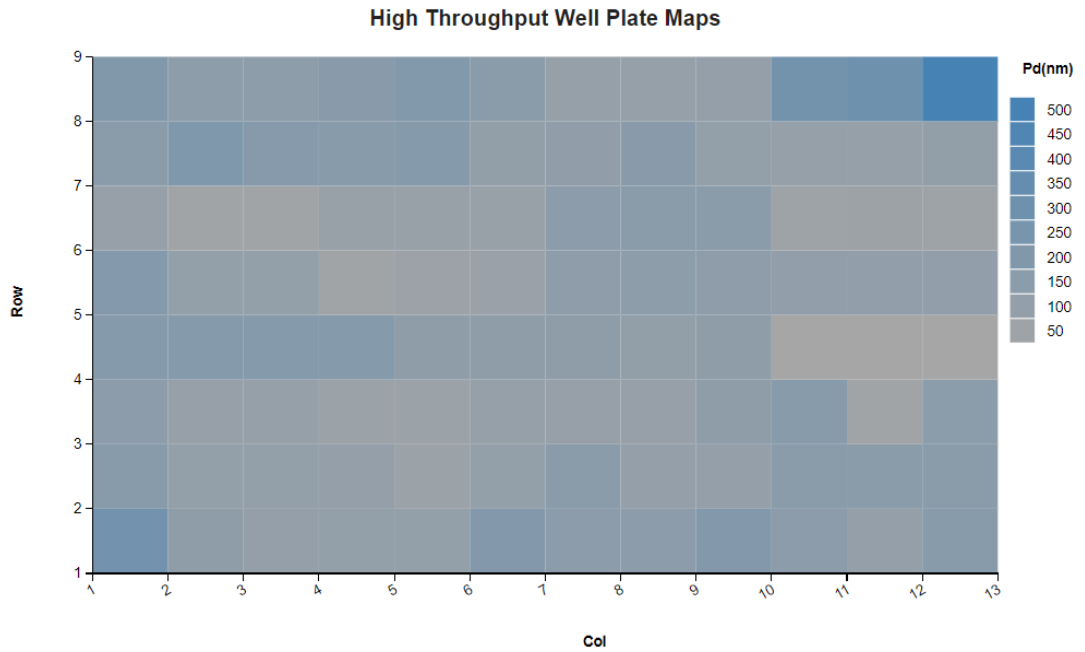
#### Notes:

- LINK does not presently support importing individual well measurements and associated replicates/acquisitions. Please import the entire experiment.
- Multiple CSV datasets with identical sample names (e.g., Well Plate names) must each be in separate folders.
- For DYNAMICS software v7+, “intensity” or “mass” must be included in the export filename for successful import to LINK, for LINK to know what kind of data it is.

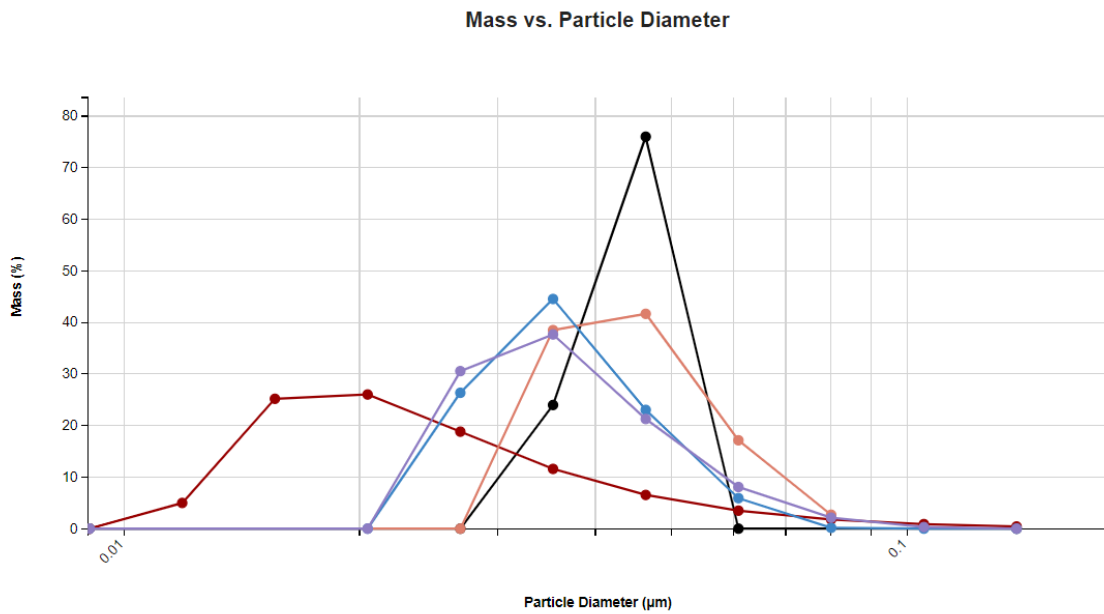
**EXAMPLES**

Included below are example dashboards from DynaPro measurement files:

**1. 2D Histogram plotting a high throughput well plate map**



**2. Line Chart plotting raw data curves for Mass vs. Diameter and split by sample**



**3. Tabular Summary examples**

Measurement Summary Table – Instrument Settings

LINK Record ID #	Sample Name	Analysis Date	Well	Col	Time(s) - AVG	# Acqs Unmarked	# Acqs Marked
268	A2	2014-09-17 13:13:31	A2	2	11302.50	2	8
269	A3	2014-09-17 13:14:51	A3	3	11382.00	0	10
270	A4	2014-09-17 13:16:05	A4	4	11455.60	10	0
271	A5	2014-09-17 13:17:21	A5	5	11532.70	8	2
272	A6	2014-09-17 13:18:40	A6	6	11610.50	8	2
277	A11	2014-09-17 13:25:37	A11	11	12027.60	9	1
278	A12	2014-09-17 13:26:53	A12	12	12104.10	10	0



## Measurement Summary Table – Measurement Results

LINK Record ID #	Sample Name	Radius(nm) - AVG	Intensity(Cnt/s) - AVG	Mass (%) (Particle Diam. (µm) >= .01) - AVG	Intensity (%) (Particle Diam. (µm) >= .01) - AVG	Conc(mg/mL) - AVG	%Pd
268	A2	0.43	523170	0.00	0.00	0	Multimodal
269	A3	0.00	486535	0.00	0.00	0	0
270	A4	28.02	695134	100.00	100.00	0	16
271	A5	28.81	663301	100.00	100.00	0	Multimodal
272	A6	32.17	637330	100.00	100.00	0	Multimodal
277	A11	25.43	1897330	100.00	100.00	0	23
278	A12	63.36	4660480	100.00	100.00	0	Multimodal

## DYNAPRO DASHBOARDS

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LINK contains an extensive built-in dashboard library from LINK version 2.4.0.210401 and later. This function contains specific pre-created dashboards for all instruments and application groups.

## CONTACT LUMETICS

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For direct assistance, please contact Lumetics LINK™ Support:

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