

Eyecon – Innopharma Technology

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.

The Eyecon is a particle analyzer for the analysis and profiling of powders and bulk solids. Eyecon is a new generation non-product contact, direct imaging system that generates real-time on-screen images, particle size and shape information.

DETAILS

LINK requires the CSV data file exported from the Eyecon software. If the PDF is report is present with the CSV, it will be imported as an attachment viewable directly from within LINK.

The following raw curve data may be imported, in addition to all available instrument/analysis settings and parameters calculated by the instrument software:

- Dv10, Dv50, Dv90, an Eccentricity vs. Elapsed Time
- Volume Fraction (Cumulative) vs. Particle Diameter

The Eyecon CSV data file example is as follows:

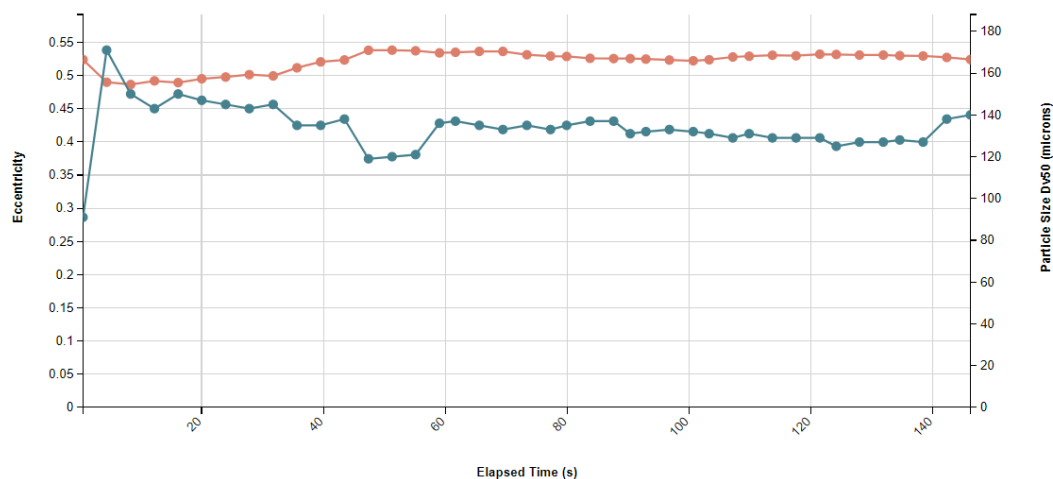
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC			
1 Eyecon Particle Size Report																															
2 Batch Details																															
3	Material	Batch Numbe	Sublot	Configuration	Started By	Start date	Start time	End date	End time	Duration (seconds)																					
4	CC2-5	A2898-084	Inline	Comill US - MC	admin	2018-06-21	09:46:47	GN	2018-06-21	09:49:16	149.209																				
5 Instrument Details																															
6	Model	Serial no.	EyePASS ver																												
7	EYECON1	N/A	2.1.2																												
8 Configuration Details																															
9	Name	Mode	Image st	Short duration	Integratic	Min. Repc	Max. Repor	Max. dete	False aggli	Average	No. Leve	Edge cor	Analysis	Material	Alarms e	Report t	Product	All came	R camer	G camer	B camer	R LED ga	G LED ga	B LED ga	Focus position (Eyecon 2 only)						
10	Lumetics	In Line	15	0	30	25	1000	1000	0.25	0	18	50	301	0	false	Default	300	10	16	6	75	60	50	100							
11 End Point Results - calculated from final 300 seconds of process																															
12		D_v10	D_v50	D_v90	D_n10	D_n50	D_n90	Mean di	Median	Std devi	d1	avera	d2	avera	Shape r	Shape R	5% vol	10% vol	15% vol	20% vol	25% vol	30% vol	35% vol	40% vol	45% vol	50% vol	55% vol	60% vol	65% vol		
13		72	137	278	44	73	125	79	73	36	87	71	0.5205	0.3901	63	72	72	78	84	89	96	106	119	129	137	144	154	168			
14 Process Profile - all results based on integration period of 30 seconds																															
15	Date	Time	Elapsed	D_v10	D_v50	D_v90	D_n10	D_n50	D_n90	Mean di	Median	Std devi	d1	avera	d2	avera	Shape r	Shape R	5% vol	10% vol	15% vol	20% vol	25% vol	30% vol	35% vol	40% vol	45% vol	50% vol	55% vol	60% vol	65% vol
16	29/06/2018	09:46:47	0.56	64	91	247	46	69	90	71	69	26	79	64	0.5238	0.4039	58	64	67	71	74	77	79	82	86	91	97	122	131		
17	29/06/2018	09:46:51	4.43	74	171	330	52	75	117	82	75	39	89	75	0.4898	0.4034	67	74	79	84	89	96	121	138	150	171	188	210	225		
18	29/06/2018	09:46:55	8.38	74	150	314	53	76	125	83	76	37	91	76	0.4863	0.4048	67	74	79	84	89	94	106	129	141	150	171	188	200		

EXAMPLES

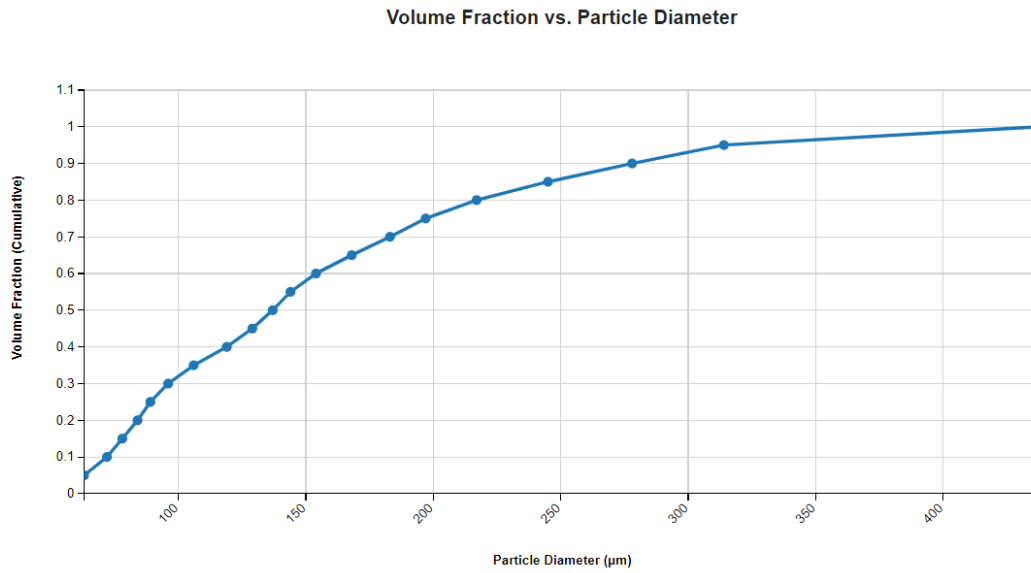
Included below are sample dashboards from Eyecon measurement files:

1. Line chart plotting raw data based on Eccentricity & Particle size vs. Elapsed Time

Eccentricity & Particle Size vs. Elapsed Time



2. Line chart plotting raw data based on Volume Fraction vs. Particle Diameter



3. Tabular Summary examples

Measurement Summary Table – Instrument Settings

LINK Record ID #	Version	Max. detection size - AVG	Start time	End time	Start date	End date	Integration time - AVG	Configuration	Batch Number	Analysis Date	Analysis block size - AVG
1	2.1.2	1000	09:46:47 GMT+...	09:49:16 GMT+...	2018-06-29	2018-06-29	30	Comill U5 - MCC	A0898-084	2018-06-29 09:...	301

Measurement Summary Table – Measurement Results

LINK Record ID #	Eccentricity RSD - AVG	Eccentricity - AVG	Shape RSD - AVG	Shape mean - AVG	Std deviation - AVG	Median diameter - AVG	Mean diameter - AVG	Volume Fraction (Cumulative) (Particle Diam. (µm) >=1) - AVG	Eccentricity (Elapsed Time (s) >=1) - AVG	Edge contrast threshold - AVG	d2 average - AVG	d1 average - AVG
1	0.39	0.52	0.39	0.52	36	73	79	10.50	20.87	50	71	87

EYECON DASHBOARDS

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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