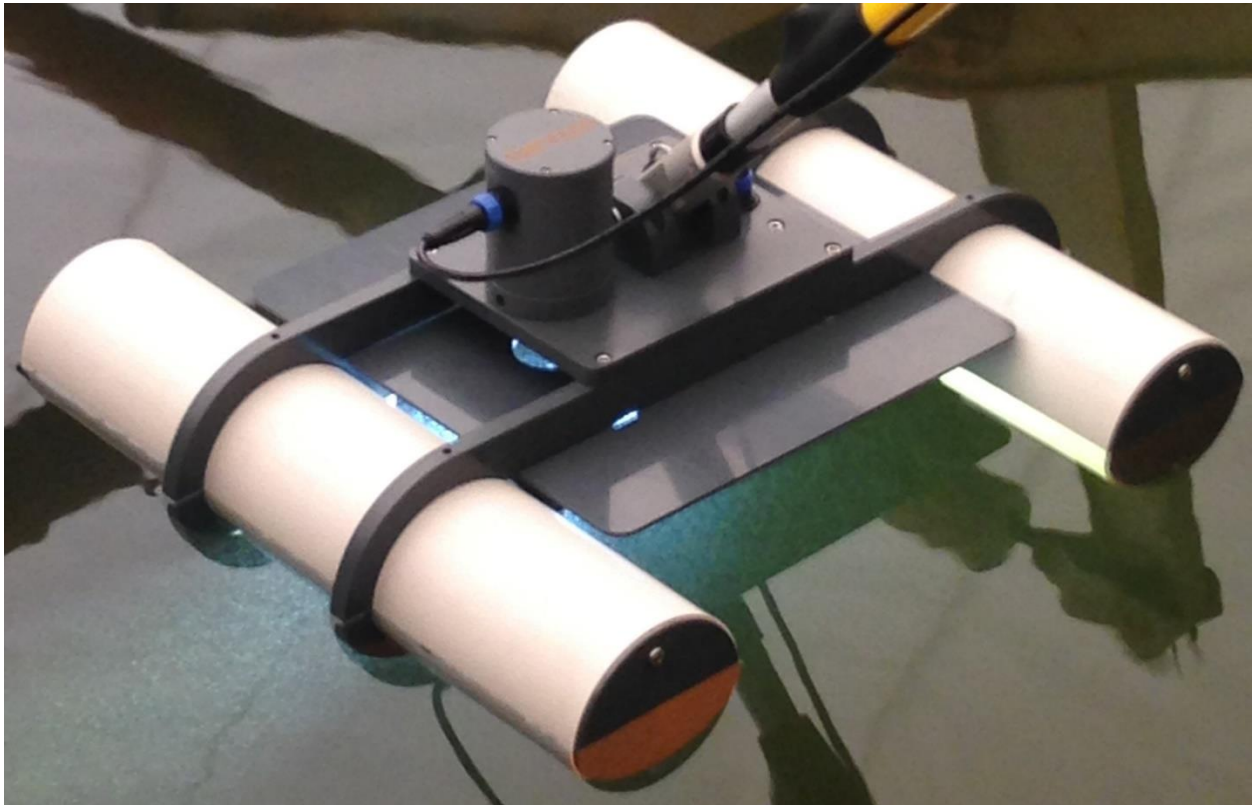


Basin FlocCAM[®]



About the Basin FloccAM®

Using a video camera the Basin FloccAM® takes images of flocs in flocculation basin, performs image analysis providing real-time average floc size, shape, number of flocs, a number of parameters characterizing the floc size distribution, etc.

The data allow operators to continuously monitor the impact of:

- Alterations of coagulant and coagulant-aid dose
- Changes in plant hydraulics
- Filter backwash
- Fluctuations in raw water quality
- Changes in rate of stirring

Improved detection of the effects of changes during treatment enable:

- Taking quick corrective actions during storm events
- Optimizing the use of coagulant and coagulant-aids
- Lengthening filter run times
- Reducing the plant's total operating costs
- Tailoring flocculation to raw water quality

Basin FlocCAM® in Operation

The Basin FlocCAM® simple mounting hardware enables quick installation. The unit floats on the surface minimizing interference with the flocculation process.

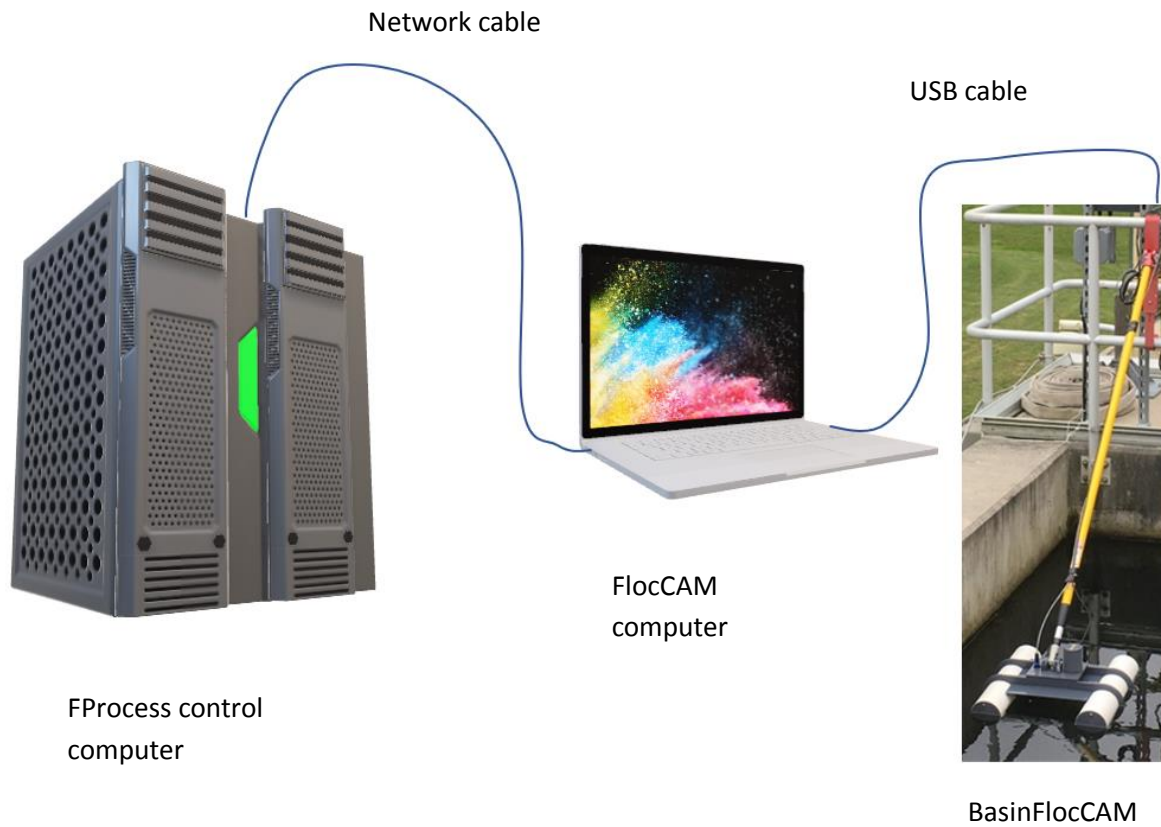


Outside installation



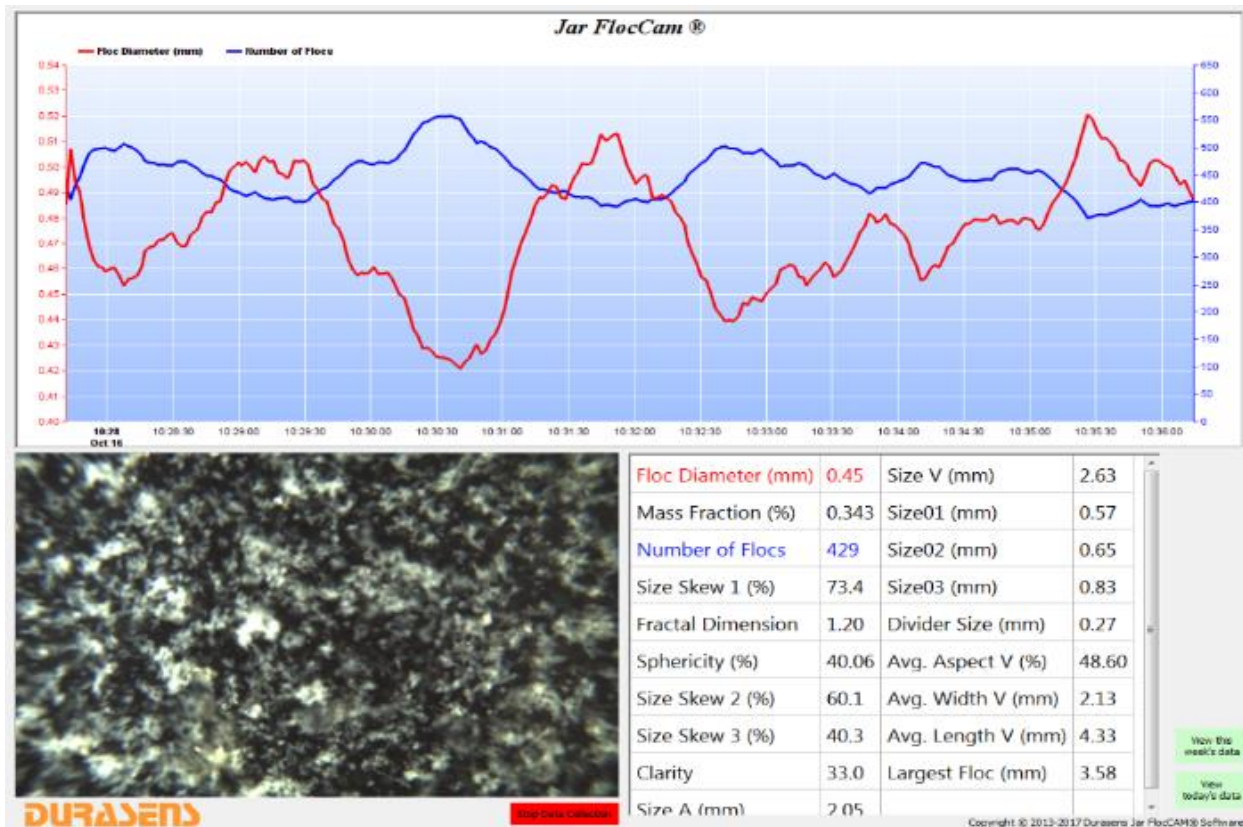
Inside installation

Typical Setup



Using the Basin FlocCAM®

The Basin FlocCAM® is operated by a user-friendly software. It displays the real time values of all the parameters, graphs two selected parameter, and also shows a live video of the flocs in the basin. The parameters are stored locally in a csv file and can be graphed and further analyzed by Excel or equivalent.



Software User Interface

AutoSave 2021_02_23 - Read-Only Search Milan Mlascovic

File Home Insert Page Layout Formulas Data Review View Help

Calibri 11 Wrap Text General

Clipboard Font Alignment Number Styles Cells Editing Analysis

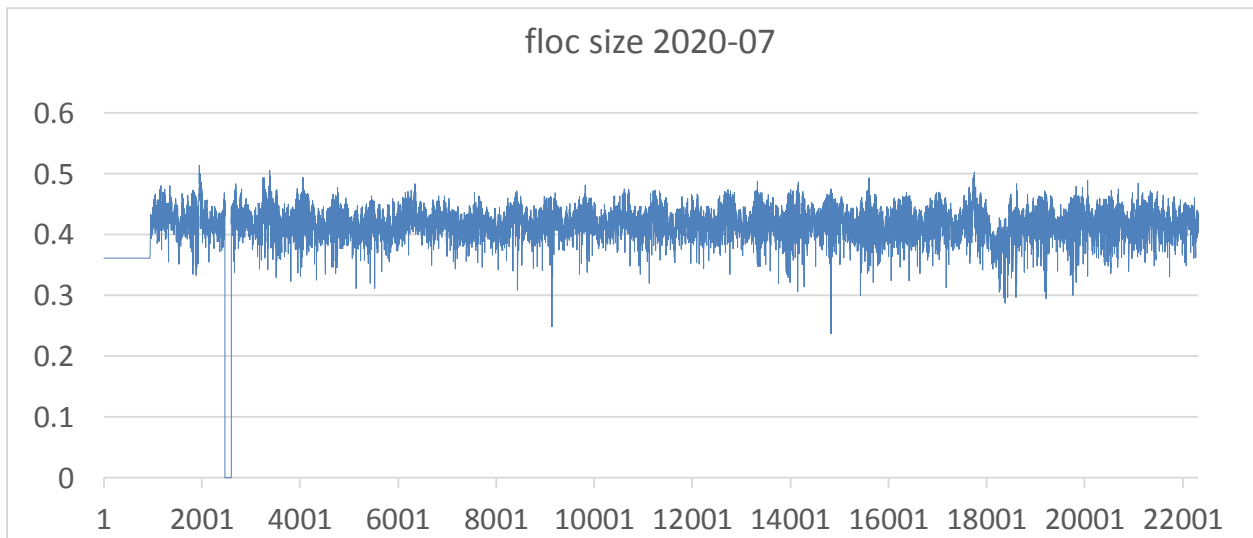
A1 ASCII time

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	ASCII time	excel time	unix time	diameter	number	mass frac	skew1	skew2	sieve5	fractal di	sphericity	clarity	brightness	sizeA	sizeV	sizeD1	sizeD2	sizeD3	diameter	average	sizeD1H	averageH	largestD
2	2/23/2021 0:00	44250	1.0E+09	0.1919	76	0.08954	34.595	26.9029	17.8886	1.63713	31.4074	38.3737	39.7956	0.7340	0.80938	0.40352	0.49296	0.65936	0.09747	22.9826	0.32852	10.0704	1.04326
3	2/23/2021 0:00	44250	1.0E+09	0.25459	28	0.09063	45.4238	35.9637	25.1850	2.54667	28.2598	38.0859	36.8852	0.9473	0.91108	0.4664	0.50663	0.68248	0.11495	23.0122	0.29936	10.9568	1.05266
4	2/23/2021 0:00	44250	1.0E+09	0.36513	12	0.09022	54.3998	47.0835	40.1265	4.43684	28.2535	17.587	33.5936	0.8077	0.80822	0.59286	0.6579	0.74014	0.13869	21.1049	0.23175	11.5226	0.95808
5	2/23/2021 0:00	44250	1.0E+09	0.2433	21	0.09016	32.228	27.6986	22.6475	1.84308	32.8773	17.3749	36.0046	0.85538	0.95398	0.56798	0.64875	0.75961	0.13825	30.8819	0.40884	10.366	1.0767
6	2/23/2021 0:01	44250	1.0E+09	0.23278	46	0.09778	40.8429	30.8562	19.0562	2.10659	28.2112	18.1504	41.6786	1.0738	1.25978	0.43531	0.52558	0.69367	0.09552	23.5525	0.72958	12.3453	1.3956
7	2/23/2021 0:01	44250	1.0E+09	0.20103	31	0.08933	33.3343	25.1491	21.0921	1.52053	30.2555	17.9891	37.5482	0.82926	0.94955	0.46572	0.57597	0.64731	0.05836	29.8017	0.41286	0.96184	1.10038
8	2/23/2021 0:01	44250	1.0E+09	0.19554	52	0.08878	36.9804	26.7305	16.5277	1.8949	38.2822	17.9891	39.9761	0.7216	0.87907	0.41077	0.49392	0.62498	0.06278	33.4902	0.41776	8.74537	1.05486
9	2/23/2021 0:01	44250	1.0E+09	0.22583	39	0.11716	41.4256	31.7613	22.5011	1.96285	30.0431	17.9987	42.2776	1.06777	1.22129	0.41713	0.522	0.67755	0.13251	29.9262	0.75667	10.3785	1.37191
10	2/23/2021 0:01	44250	1.0E+09	0.18151	53	0.09045	35.2226	19.4759	14.1601	2.1541	35.2005	18.0822	39.7317	0.81465	0.94028	0.3795	0.52836	0.67949	0.07905	34.9711	0.46988	8.52737	1.10652
11	2/23/2021 0:01	44250	1.0E+09	0.24651	28	0.08961	40.35	27.1418	21.3502	2.10106	27.0781	17.6203	34.1407	0.76255	0.8736	0.43562	0.58691	0.71601	0.14113	20.8757	0.21941	11.4104	1.0625
12	2/23/2021 0:01	44250	1.0E+09	0.1878	43	0.08861	37.2211	25.2029	16.7606	1.57886	30.1195	17.6063	35.9021	0.70705	0.87396	0.37192	0.45913	0.57008	0.08682	24.828	0.13478	10.9039	1.0555
13	2/23/2021 0:02	44250	1.0E+09	0.1883	55	0.08741	37.4504	25.2948	14.1973	0.99214	27.9816	17.5937	31.3517	0.65039	0.79269	0.37129	0.44347	0.63069	0.07167	24.8105	0.13579	11.1422	0.96719
14	2/23/2021 0:02	44250	1.0E+09	0.21478	31	0.08708	36.3862	19.8289	18.1654	2.16891	22.3307	17.5756	31.4559	0.75062	0.86303	0.42037	0.54659	0.67216	0.07881	17.2025	0.22954	13.3429	0.9813
15	2/23/2021 0:02	44250	1.0E+09	0.38764	22	0.10266	58.5311	51.1376	45.1659	2.98916	30.597	17.5865	44.3953	1.08745	1.20311	0.5689	0.64411	0.70083	0.25998	24.2855	0.45127	10.5947	1.32144
16	2/23/2021 0:02	44250	1.0E+09	0.20364	22	0.08904	36.1151	24.7567	17.802	2.98178	30.8667	17.5802	36.1533	0.80203	0.9068	0.46897	0.57011	0.69761	0.08147	25.1649	0.13456	11.1224	1.04041
17	2/23/2021 0:02	44250	1.0E+09	0.47603	7	0.096	55.7535	52.4986	48.3319	0.3151	28.5825	17.4607	35.1703	1.02505	1.09054	0.77355	0.86213	0.89429	0.28102	22.4116	0.43228	11.0575	1.19652
18	2/23/2021 0:02	44250	1.0E+09	0.13745	63	0.08711	27.9863	17.0962	9.92865	2.10118	28.381	18.0576	35.1001	0.63703	0.78721	0.30955	0.43079	0.56477	0.05918	23.1115	0.13892	11.0876	0.94655
19	2/23/2021 0:03	44250	1.0E+09	0.29638	48	0.11116	43.5019	35.7047	18.8554	2.07319	34.512	18.0557	31.612	1.21177	1.44571	0.53362	0.64935	0.80373	0.18473	29.7593	0.9545	9.4943	1.6262
20	2/23/2021 0:03	44250	1.0E+09	0.34808	32	0.1128	50.9026	35.2522	14.6394	2.85278	40.7726	18.2393	45.3549	0.9291	1.02707	0.54358	0.61864	0.7682	0.13556	30.0444	0.5673	8.43987	1.1642
21	2/23/2021 0:03	44250	1.0E+09	0.19014	39	0.09109	34.541	25.7906	16.7505	2.34073	36.1236	18.0379	37.9321	0.77556	0.90167	0.43312	0.51252	0.67088	0.06805	33.7486	0.41251	9.55875	1.06529
22	2/23/2021 0:03	44250	1.0E+09	0.18717	84	0.08515	33.8675	24.2621	18.5774	1.91237	31.14	18.4376	39.119	0.57912	0.74019	0.33807	0.41668	0.54334	0.11577	25.4704	0.2487	10.0638	0.95455
23	2/23/2021 0:03	44250	1.0E+09	0.3414	32	0.08993	35.874	30.9464	25.9180	2.14872	23.9452	17.6748	35.7545	0.77903	0.88544	0.50786	0.53883	0.69683	0.10377	19.0619	0.2794	13.0274	0.98207
24	2/23/2021 0:03	44250	1.0E+09	0.30969	39	0.08544	38.0091	28.5102	21.0266	1.80478	23.9283	17.554	31.5941	0.68998	0.8109	0.38278	0.47882	0.61	0.10381	15.1337	0.1431	13.4717	0.93466
25	2/23/2021 0:04	44250	1.0E+09	0.38911	39	0.08121	48.213	40.5906	35.1774	2.75493	32.9009	18.1439	36.6691	0.70478	0.84025	0.43804	0.4837	0.58206	0.12448	19.5293	0.16443	9.09563	1.06057
26	2/23/2021 0:04	44250	1.0E+09	0.19474	82	0.09093	35.2681	21.6256	16.0219	2.49613	29.547	18.40	32.5924	0.76105	0.93848	0.38036	0.47147	0.60795	0.07117	25.4334	0.38416	10.9508	1.12617
27	2/23/2021 0:04	44250	1.0E+09	0.28169	34	0.10451	47.2102	35.4719	25.0176	3.00624	31.2778	18.0517	44.4414	1.10392	1.24225	0.55383	0.71907	0.89837	0.12314	28.3887	0.38896	9.77817	1.36086

.CSV File with All the Parameters

Durasens, LLC
 141 Tompkins Ave, Pleasantville, NY 10570
 T 844-FLOCCAM (356-2226)
 E info@floccam.com
 www.floccam.com

Analyzing the Data



Graph of Floc Size Variation during One Month