

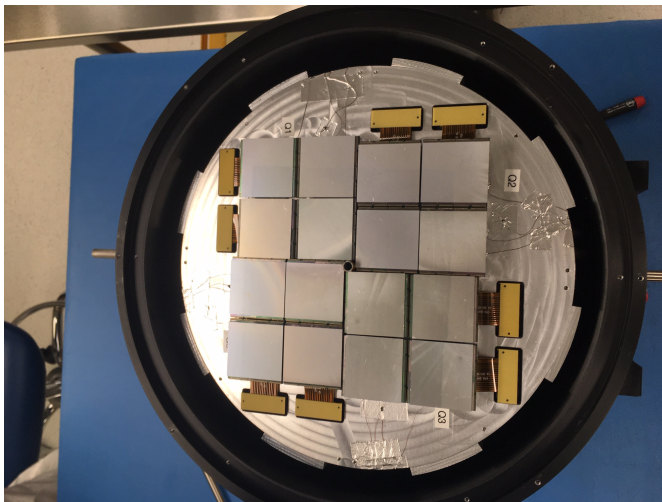
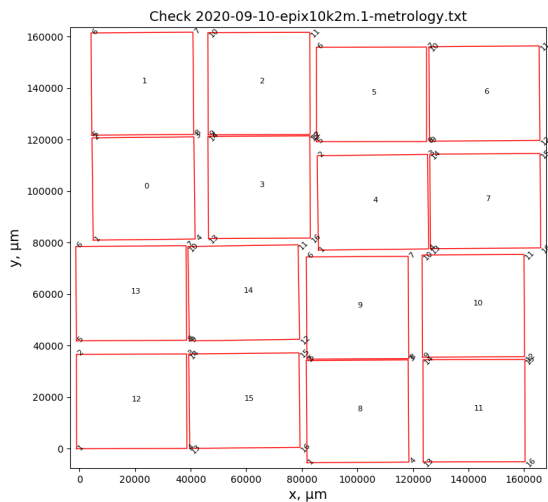
Optical metrology of epix10ka2m.1 from 2020-09-10

- Metrology data
- Measurement map
- Quality check
- Test on data
- References

Metrology data

- 2020-09-10-epix10k2m.1-metrology.xlsx
- 2020-09-10-epix10k2m.1-metrology.txt

Measurement map



Quality check

Quality check for raw metrology data												
X-Y quality check for optical metrology measurements												
----- ----- segm: S1 S2 dS1 dS2 L1 L2 dL1 dL2 angle(deg) D1 D2 dD d (dS) d(dL) -----												
segm: 0 14	36685 13	36672 -13	460	447	-39671	-39658	422	435	0.65506	54049	54035	
segm: 1 -7	36679 -12	36691 -16	291	303	-39695	-39679	292	308	0.42877	54058	54065	
segm: 2 1	36674 -6	36680 12	106	112	-39659	-39671	127	115	0.15745	54039	54038	
segm: 3 2	36674 -7	36681 -13	188	195	-39690	-39677	195	208	0.27649	54058	54056	
segm: 4 17	-36700 -42	-36658 -8	-500	-458	-39695	-39687	405	413	0.69142	54072	54054	
segm: 5 -4	-36680 -7	-36673 18	-64	-57	-39662	-39680	48	30	0.08738	54039	54044	
segm: 6 -15	-36689 -23	-36666 -6	-337	-314	-39683	-39677	286	292	0.46999	54045	54060	
segm: 7 9	-36649 25	-36674 19	-263	-288	-39666	-39685	227	208	0.39785	54049	54039	
segm: 8 24	-36674 7	-36681 0	-290	-297	39673	39673	-279	-279	0.42387	54061	54037	

segm: 9	-36687	-36668	-235	-216	39672	39683	-235	-224	0.32563	54055	54049
5	-19	-11									
segm:10	-36699	-36672	-210	-183	39671	39668	-211	-214	0.28381	54040	54056
-15	-27	3									
segm:11	-36672	-36675	-63	-66	39676	39673	-78	-81	0.09315	54043	54042
0	3	3									
segm:12	36669	36694	115	140	39695	39677	-98	-116	0.18407	54049	54061
-11	-25	18									
segm:13	36652	36691	241	280	39707	39691	-220	-236	0.37596	54055	54070
-14	-39	16									
segm:14	36669	36681	637	649	39683	39672	-542	-553	0.92843	54072	54031
40	-12	11									
segm:15	36678	36671	420	413	39670	39668	-382	-384	0.60155	54029	54029
0	7	2									

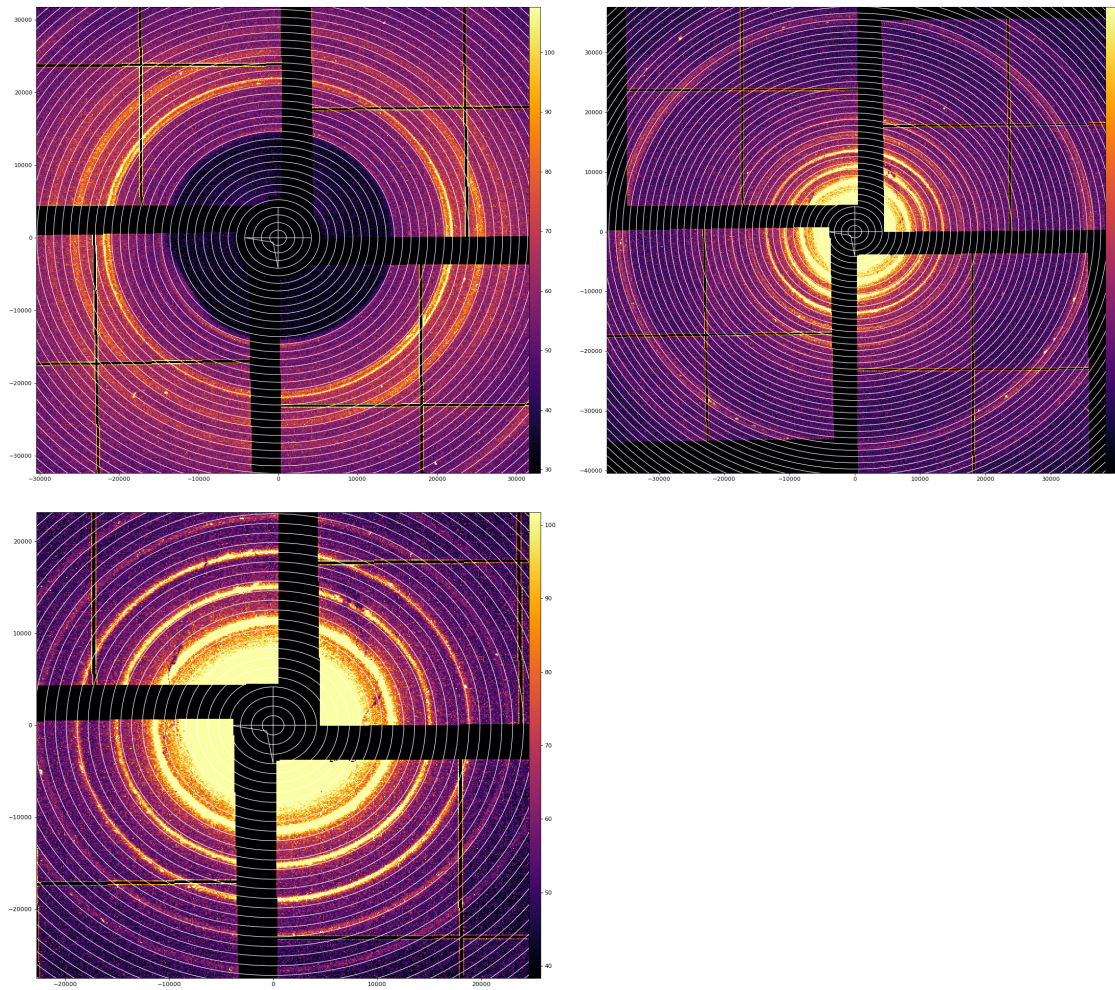
Z quality check for optical metrology measurements

segm:	SA	LA	XSize	YSize	dZS1	dZS2	dZL1	dZL2	dZSA	dZLA	ddZS	ddZL	dZX	dZY
angXZ(deg)	angYZ(deg)	dz3(um)												
segm: 0	36678	-39664	36678	39664	573	889	868	1184	731	1026	-316	-316	731	1026
1.14175	1.48174	316.374												
segm: 1	36685	-39687	36685	39687	739	838	970	1069	788	1019	-99	-99	788	1019
1.23131	1.47152	99.095												
segm: 2	36677	-39665	36677	39665	843	896	935	988	869	961	-53	-53	869	961
1.35805	1.38861	52.551												
segm: 3	36677	-39683	36677	39683	904	897	1144	1137	900	1140	7	7	900	1140
1.40643	1.64622	-6.796												
segm: 4	-36679	-39691	39691	36679	885	1119	-977	-743	1002	-860	-234	-234	-860	1002
-1.24126	1.56482	234.662												
segm: 5	-36676	-39671	39671	36676	850	1062	-948	-736	956	-842	-212	-212	-842	956
-1.21590	1.49312	212.475												
segm: 6	-36677	-39680	39680	36677	972	1033	-910	-849	1002	-879	-61	-61	-879	1002
-1.26974	1.56567	61.429												
segm: 7	-36661	-39675	39675	36661	1266	1102	-938	-1102	1184	-1020	164	164	-1020	1184
-1.47267	1.84975	-164.262												
segm: 8	-36677	39673	36677	39673	-901	-858	-1120	-1077	-879	-1098	-43	-43	-879	-1098
-1.37365	-1.58605	43.143												
segm: 9	-36677	39677	36677	39677	-889	-835	-1165	-1111	-862	-1138	-54	-54	-862	-1138
-1.34633	-1.64286	53.818												
segm:10	-36685	39669	36685	39669	-766	-844	-957	-1035	-805	-996	78	78	-805	-996
-1.25706	-1.43825	-78.599												
segm:11	-36673	39674	36673	39674	-774	-849	-953	-1028	-811	-990	75	75	-811	-990
-1.26762	-1.43013	-74.970												
segm:12	36681	39686	36686	36681	-955	-791	761	925	-873	843	-164	-164	843	-873
1.21688	-1.36335	164.910												
segm:13	36671	39699	39699	36671	-1117	-1142	804	779	-1129	791	25	25	791	-1129
1.14218	-1.76418	-23.474												
segm:14	36675	39677	39677	36675	-946	-1047	813	712	-996	762	101	101	762	-996
1.10094	-1.55641	-100.410												
segm:15	36674	39669	39669	36674	-929	64	-269	724	-432	227	-993	-993	227	-432
0.32859	-0.67565	992.468												

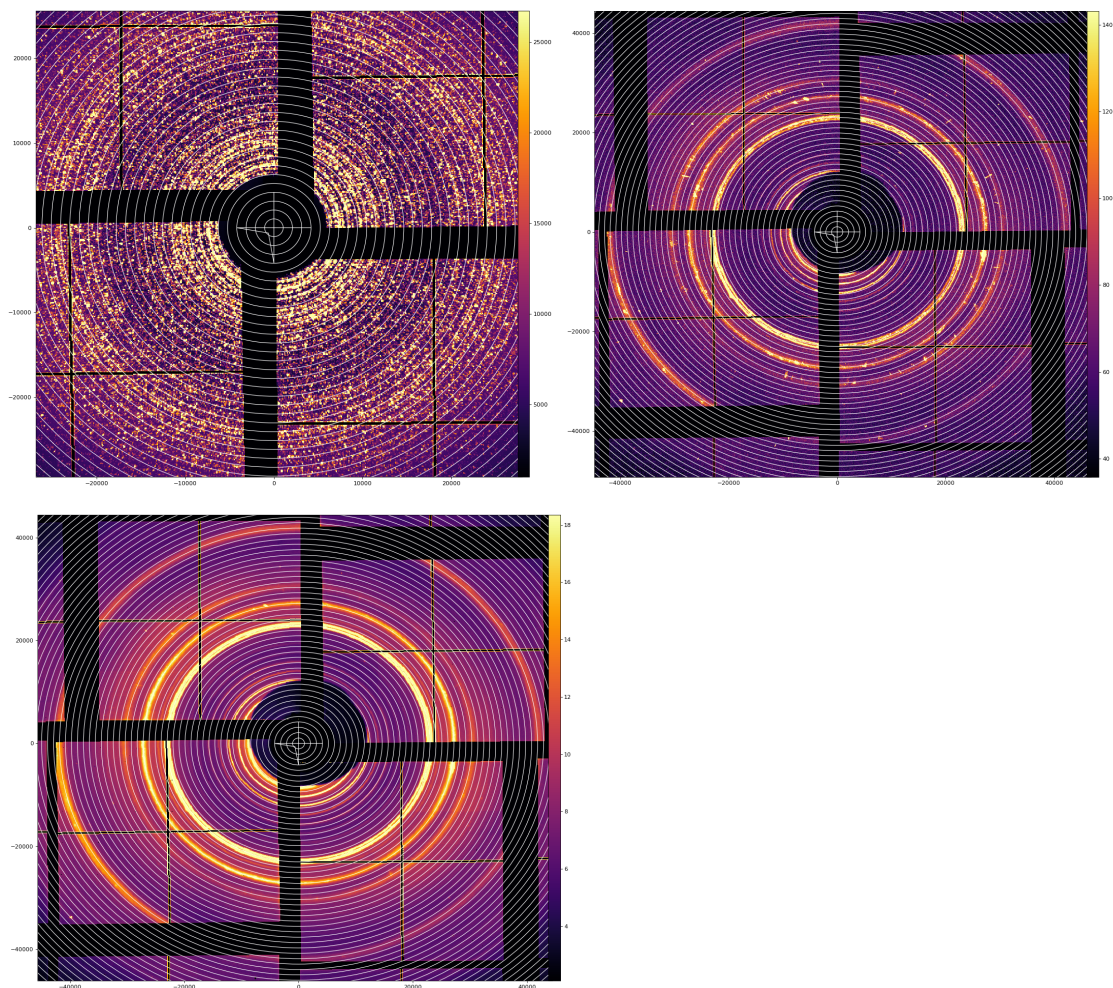
WARNING segm 0: |316.4| > 100.0
WARNING segm 4: |234.7| > 100.0
WARNING segm 5: |212.5| > 100.0
WARNING segm 7: |-164.3| > 100.0
WARNING segm 12: |164.9| > 100.0
WARNING segm 14: |-100.4| > 100.0
WARNING segm 15: |992.5| > 100.0

Test on data

- Use 2020-09-10-geometry-epix10ka2m.1-v1.txt
with center offset: IP 0 CAMERA 0 250 350 -118000 90 0 0 0.00000 0.00000 0.00000
- nda-mfxc00118-r0183-silver-behenate-max.txt
- nda-mfxc00118-r0184-silver-behenate-max.txt
- nda-mfxc00118-r0185-silver-behenate-max.txt



- run 214 lysozyme - max
- run 224 silver-behenate - max
- run 224 silver-behenate - mean



References

- [Optical metrology of epix10ka2m.1 from 2020-02-25](#)
- [EPIX10KA2M References](#)