



Magnification calibration performed 4/2/2026
 Camera BM-Ceta
 Lens series TEM
 High tension 200 kV

TEM	X-grating	Im. shift	Lattice	Used	Error (%)	CCD/TEM
120000	-	-	116549	116549	1.34	0.971
150000	-	-	144247	144247	1.33	0.962
190000	-	-	183479	183479	1.29	0.966
245000	-	-	232941	232941	1.40	0.951
310000	-	-	295558	295558	1.27	0.953
390000	-	-	373919	373919	1.37	0.959
500000	-	-	480092	480092	1.41	0.960
630000	-	-	621480	621480	1.32	0.986
650000	-	-	637908	637908	1.44	0.981
820000	-	-	808352	808352	1.45	0.986
1050000	-	-	1047723	1047723	1.42	0.998



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2050	1837	-	-	1837	0.53	0.896
2600	2373	2372	-	2373	0.37	0.913
3300	3091	3099	-	3091	0.46	0.937
4300	4056	-	-	4056	0.35	0.943
5500	5260	5265	-	5260	0.26	0.956
7000	6763	6772	-	6763	0.18	0.966
8600	8345	8364	-	8345	0.14	0.970
11000	10295	10298	-	10295	0.19	0.936
14000	13043	13056	-	13043	0.12	0.932
17500	16862	16882	-	16862	0.34	0.964
22500	21287	21335	-	21287	0.44	0.946
28500	26749	26859	-	26749	0.33	0.939
36000	-	34392	-	34392	0.00	0.955
46000	-	43652	-	43652	0.00	0.949
58000	-	55458	-	55458	0.02	0.956
74000	-	70564	-	70564	0.01	0.954
94000	-	89257	-	89257	0.02	0.950
120000	-	113608	-	113608	0.02	0.947
150000	-	142306	-	142306	0.01	0.949
190000	-	181585	-	181585	0.02	0.956
245000	-	230787	-	230787	0.03	0.942
310000	-	294400	-	294400	0.03	0.950
390000	-	373970	-	373970	0.00	0.959



Magnification calibration performed	4/2/2026	
High tension	200 kV	
Pivot points	0.00000	0.00000
Perpendicular correction	0.00000	0.00000
Distortion correction	0.00000	0.00000
STEM rotation correction	2.1	

TEM	X-grating	Im. shift	Lattice	Used	Error (%)	Meas/nominal
10000	9203	-	-	9203	0.08	0.920
40000	36130	-	-	36130	0.22	0.903
160000	-	144567	-	144567	0.42	0.904
640000	-	584925	-	584925	1.38	0.914