

Gatan K2 DDD on Polara Magnification Table

Calibrated using negative stain preparation of catalase crystals

August 7, 2013 by Zongli Li

Nominal Magnification (Screen up/down)	4700 / 4200	9400/ 8300	12000/ 10500	15500/ 13500	20000/ 17500	23000 / 20500	31000/ 27500	39000/ 35000	59000/ 52000
Pixel size on DDD image (counted mode)	8.32	4.22	3.34	2.54	1.97	1.64	1.23	0.98	0.64
Pixel size on DDD image (super resolution mode)	4.16	2.11	1.67	1.27	0.99	0.82	0.62	0.49	0.32
Calibrated Mag on DDD image	6008	11843	14958	19662	25342	30444	40607	50926	78228
Calibrated Mag/Nominal Mag	1.2783	1.2599	1.2465	1.2685	1.2671	1.3237	1.3099	1.3058	1.3259

Note: 1. FEG @ 300kV

2. Used spacing of 17.5 nm for calibration

3. At each magnification 5 images were taken at different crystals and multiple measurements were performed. The results shown here are the average of those measurements.