

## Geometric Calibration Report

Performed at 12:11 on Thursday, February 21, 2013 by User.

Scanner Serial Number: 151926  
 PhotoScan version: 4.4.1.15  
 Firmware revision: 5.40

CCD Angle (radians) : 0.001000  
 CCD Angle (degrees) : 0.057299

Width across all CCDs (microns) : 39421.000000  
 Size of one CCD (microns) : 6.999467

Intersections read from: C:\Program Files\PhotoScan\CalibFiles\25NominalPoints.dat  
 Title: # Calibration plate: Using all 25 nominal points (in BEST order)

Status #	Calibrated		Observed		Residuals	
	X (mm)	Y (mm)	X (mm)	Y (mm)	X (um)	Y (um)
SM 1	0.000	200.000	0.216	202.322	-1.299	-0.857
SM 2	0.000	150.000	0.057	152.322	-1.695	-0.153
SM 3	0.000	100.000	-0.100	102.319	-1.500	-1.836
SM 4	0.000	50.000	-0.256	52.319	1.003	-1.439
SM 5	0.000	0.000	-0.414	2.320	1.069	0.431
SM 6	50.000	200.000	50.221	202.183	0.251	1.588
SM 7	50.000	150.000	50.063	152.182	-0.282	1.814
SM 8	50.000	100.000	49.904	102.179	-0.722	-0.638
SM 9	50.000	50.000	49.749	52.178	1.408	-0.411
SM * 10	50.000	0.000	49.591	2.180	1.647	2.225
SM 11	100.000	200.000	100.226	202.041	0.710	1.170
SM 12	100.000	150.000	100.067	152.040	0.086	1.058
SM 13	100.000	100.000	99.909	102.037	-0.297	-0.783
SM 14	100.000	50.000	99.752	52.037	0.954	-0.348
SM 15	100.000	0.000	99.594	2.038	0.728	1.608
SM 16	150.000	200.000	150.230	201.898	1.486	-0.030
SM 17	150.000	150.000	150.071	151.897	0.156	-0.184
SM 18	150.000	100.000	149.912	101.894	-1.047	-2.446
SM 19	150.000	50.000	149.754	51.894	-0.639	-1.429
SM 20	150.000	0.000	149.595	1.895	-1.531	0.361
SM 21	200.000	200.000	200.234	201.757	1.390	0.391
SM 22	200.000	150.000	200.075	151.756	0.568	0.684
SM 23	200.000	100.000	199.916	101.754	-1.022	-1.391
SM 24	200.000	50.000	199.759	51.753	-0.193	-0.892
SM 25	200.000	0.000	199.600	1.755	-1.226	1.506

1.2119031800 = Standard Deviation (sigma)

1.0661860792 = Root Mean Square X

1.2473495877 = Root Mean Square Y

0.9999166674 = Scale X

0.9999793844 = Scale Y

-0.0187549108 = Non-orthogonality (degrees)

x = 1.0000825121 \* X + 0.0013275080 \* Y + 0.0 (microns)  
 y = -0.0010000832 \* X + 1.0000201695 \* Y + 5000.0 (microns)

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Notes:

This file is rewritten every time a point is measured, withheld, or reinstated whether or not the resulting calibration is downloaded to the scanner.

Original Filename: C:\PROGRA~1\PHOTOS~1\CalibFiles\GeoCalibReport\_151926\_21February2013.txt