

Geometric Calibration Report

Performed at 11:51 on Thursday, August 09, 2012 by user.

Scanner Serial Number: 151400  
 PhotoScan version: 4.4.1.15  
 Firmware revision: 5.40

CCD Angle (radians) : -0.000019  
 CCD Angle (degrees) : -0.001100

Width across all CCDs (microns) : 39419.000000  
 Size of one CCD (microns) : 6.999112

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	1.647	200.596	0.225	-1.414
SM 2	0.000	150.000	1.366	150.601	0.305	1.327
SM 3	0.000	100.000	1.084	100.604	-1.169	2.300
SM 4	0.000	50.000	0.802	50.604	-1.452	0.412
SM 5	0.000	0.000	0.521	0.605	-1.696	-1.236
SM 6	50.000	200.000	51.650	200.341	1.968	-2.085
SM 7	50.000	150.000	51.369	150.345	2.391	0.186
SM 8	50.000	100.000	51.087	100.350	1.079	2.522
SM 9	50.000	50.000	50.806	50.349	1.355	-0.444
SM 10	50.000	0.000	50.525	0.349	1.217	-1.869
SM 11	100.000	200.000	101.648	200.087	-0.259	-1.683
SM 12	100.000	150.000	101.368	150.091	-0.017	0.740
SM * 13	100.000	100.000	101.086	100.095	-0.848	2.925
SM 14	100.000	50.000	100.805	50.095	-0.728	0.429
SM 15	100.000	0.000	100.524	0.095	-0.861	-1.811
SM 16	150.000	200.000	151.648	199.831	-0.987	-2.406
SM 17	150.000	150.000	151.368	149.836	-0.333	0.262
SM 18	150.000	100.000	151.086	99.840	-1.189	2.346
SM 19	150.000	50.000	150.806	49.840	-0.437	0.070
SM 20	150.000	0.000	150.525	-0.160	-0.503	-1.957
SM 21	200.000	200.000	201.649	199.577	-1.418	-1.600
SM 22	200.000	150.000	201.369	149.582	-0.235	1.122
SM 23	200.000	100.000	201.088	99.585	-0.057	2.191
SM 24	200.000	50.000	200.809	49.586	1.185	0.807
SM 25	200.000	0.000	200.529	-0.414	2.466	-1.132

1.5184286003 = Standard Deviation (sigma)  
 1.2096364167 = Root Mean Square X  
 1.6624559138 = Root Mean Square Y  
 0.9999658504 = Scale X  
 1.0000285352 = Scale Y  
 -0.0300645974 = Non-orthogonality (degrees)

$$x = 1.0000341607 * X + 0.0005055437 * Y + 0.0 \text{ (microns)}$$

$$y = 0.0000191993 * X + 0.9999716031 * Y + 5000.0 \text{ (microns)}$$

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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:\Program  
Files\PhotoScan\CalibFiles\GeoCalibReport\_151400\_09August2012.txt