

## Geometric Calibration Report

Performed at 14:41 on Wednesday, February 20, 2013 by user.

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

CCD Angle (radians) : -0.000026  
 CCD Angle (degrees) : -0.001492

Width across all CCDs (microns) : 39417.103744  
 Size of one CCD (microns) : 6.998776

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	0.465	199.852	-1.122	-1.551
SM 2	0.000	150.000	0.549	149.855	-1.346	1.730
SM * 3	0.000	100.000	0.633	99.854	-1.684	2.058
SM 4	0.000	50.000	0.717	49.852	-1.698	0.198
SM 5	0.000	0.000	0.802	-0.151	-1.602	-1.224
SM 6	50.000	200.000	50.464	199.936	1.312	-1.431
SM 7	50.000	150.000	50.549	149.938	1.585	0.497
SM 8	50.000	100.000	50.633	99.938	1.156	1.753
SM 9	50.000	50.000	50.717	49.935	1.499	-0.558
SM 10	50.000	0.000	50.802	-0.067	1.705	-1.871
SM 11	100.000	200.000	100.460	200.020	0.026	-1.961
SM 12	100.000	150.000	100.545	150.022	0.555	1.027
SM 13	100.000	100.000	100.629	100.022	0.273	1.977
SM 14	100.000	50.000	100.714	50.020	1.174	0.221
SM 15	100.000	0.000	100.799	0.018	1.843	-1.091
SM 16	150.000	200.000	150.456	200.104	-0.275	-2.274
SM 17	150.000	150.000	150.541	150.107	0.114	1.095
SM 18	150.000	100.000	150.625	100.107	-0.220	1.967
SM 19	150.000	50.000	150.710	50.105	0.364	0.636
SM 20	150.000	0.000	150.795	0.101	0.320	-1.785
SM 21	200.000	200.000	200.454	200.188	0.189	-2.261
SM 22	200.000	150.000	200.538	150.191	-0.019	1.693
SM 23	200.000	100.000	200.621	100.191	-0.920	1.677
SM 24	200.000	50.000	200.705	50.189	-1.733	0.426
SM 25	200.000	0.000	200.790	0.186	-1.493	-0.947

1.4287728692 = Standard Deviation (sigma)  
 1.1854194608 = Root Mean Square X  
 1.5288337190 = Root Mean Square Y  
 1.0000262124 = Scale X  
 1.0000118204 = Scale Y  
 0.0002872037 = Non-orthogonality (degrees)

x = 0.9999738015 \* X + 0.0004936505 \* Y + 0.0 (microns)  
 y = 0.0000260463 \* X + 0.9999883145 \* 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:\Program

Files\PhotoScan\CalibFiles\GeoCalibReport\_151400\_20February2013.txt