

Geometric Calibration Report

Performed at 17:43 on Monday, August 07, 2006 by User.

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

CCD Angle (radians) : 0.001150
 CCD Angle (degrees) : 0.065910

Width across all CCDs (microns) : 39420.916000
 Size of one CCD (microns) : 6.999452

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	3.005	198.061	-0.574	-0.599
SM	2	0.000	150.000	3.048	148.062	-0.706	-0.540
SM	3	0.000	100.000	3.090	98.062	-0.979	-1.651
SM	4	0.000	50.000	3.132	48.064	-0.837	-1.226
SM	5	0.000	0.000	3.175	-1.934	-0.656	-0.150
SM	6	50.000	200.000	53.007	198.122	-0.717	0.867
SM	7	50.000	150.000	53.049	148.123	-0.806	1.127
SM	8	50.000	100.000	53.092	98.122	0.061	-0.762
SM	9	50.000	50.000	53.135	48.123	0.369	-1.118
SM	10	50.000	0.000	53.178	-1.873	1.075	1.982
SM	11	100.000	200.000	103.009	198.181	0.536	1.131
SM	12	100.000	150.000	103.052	148.183	0.486	1.832
SM	13	100.000	100.000	103.094	98.182	0.846	-0.138
SM	14	100.000	50.000	103.137	48.184	1.113	0.240
SM	15	100.000	0.000	103.180	-1.814	1.540	1.708
SM	16	150.000	200.000	153.012	198.239	1.609	0.200
SM	17	150.000	150.000	153.054	148.241	1.023	0.895
SM	18	150.000	100.000	153.096	98.241	1.410	-0.411
SM	19	150.000	50.000	153.138	48.242	1.094	-0.602
SM	20	150.000	0.000	153.181	-1.756	0.883	0.746
SM	21	200.000	200.000	203.011	198.298	-0.403	-0.487
SM	22	200.000	150.000	203.053	148.299	-1.092	-0.135
SM	23	200.000	100.000	203.095	98.299	-0.993	-1.836
SM	24	200.000	50.000	203.138	48.300	-0.946	-1.679
SM *	25	200.000	0.000	203.178	-1.697	-3.336	0.606

1.1797656571 = Standard Deviation (sigma)
 1.1581154540 = Root Mean Square X
 1.1002218439 = Root Mean Square Y
 0.9999726641 = Scale X
 1.0000219494 = Scale Y
 -0.0191751940 = Non-orthogonality (degrees)

$$x = 1.0000262900 * X + 0.0014850573 * Y + 0.0 \text{ (microns)}$$

$$y = -0.0011503215 * X + 0.9999774454 * Y + 5000.0 \text{ (microns)}$$

 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_07August2006.txt