

# CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC 10

LENS TYPE : 8.8 SAG II

LENS NO. : 2152

CALIBRATION DATE : 04.12.81

WILD HEERBRUGG LTD .

CAMERA CALIBRATION

CAMERA: RC 10 LENS : 8.8 SAG II NO.: 2152 CALIBRATION DATE : 04.12.81

APERTURE : F / 5.6  
 FILTER ON GONIOMETER : 450 NM  
 FILTER ON CAMERA : --  
 CALIBRATED FOCAL LENGTH : 88.06 MM

RADIAL DISTORTION (MICROMETERS) REFERRING TO PRINCIPAL POINT OF SYMMETRY

-----  
 (POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER)

RADIUS MM	SEMI - DIAGONAL				MEAN
	1	3	2	4	
10	0.7	-1.6	-0.6	-2.9	-1.1
20	-1.8	-1.1	-1.1	-2.7	-1.6
30	-4.5	-4.0	-4.7	-7.5	-5.1
40	-7.3	-7.2	-5.8	-8.3	-7.1
50	-8.3	-7.0	-6.9	-8.9	-7.7
60	-7.0	-7.4	-8.5	-9.6	-8.1
70	-1.1	-2.2	-2.0	-4.9	-2.5
80	2.8	1.7	3.1	0.7	2.0
90	4.9	5.4	7.3	6.2	5.9
100	9.5	9.1	9.4	7.2	8.8
110	7.3	8.0	9.6	8.0	8.2
120	3.3	4.1	2.4	1.9	2.9
130	-6.2	-6.6	-6.9	-6.4	-6.5
140	-14.8	-13.7	-15.0	-12.3	-13.9
148	-4.6	-5.7	-11.0	-6.5	-6.9

PHOTOGRAPHIC RESOLVING POWER (LINE PAIRS PER MILLIMETER)

-----  
 INTERNATIONAL 3-LINE TEST-CHART, CONTRAST (LOG) : 2.0  
 APERTURE : 5.6  
 FILTER : 450 NM  
 FILM : AGFAPAN 25 PROFESSIONAL (ASA SPEED: 25)  
 DEVELOPER : AGFA-GEVAERT STUDIOLAL LIQUID 1:15 6 MIN

ANGLE: (DEGREES)	0	5	10	15	20	25	30	35	40	45	50	55	60
RAD.	81	91	90	62	48	33	25	33	49	72	41	41	16
TANG.	81	81	88	76	64	53	54	54	53	51	34	34	23

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 45

CAMERA CALIBRATION

CAMERA: RC 10 LENS : 8.8 SAG II NO.: 2152 CALIBRATION DATE : 04.12.81

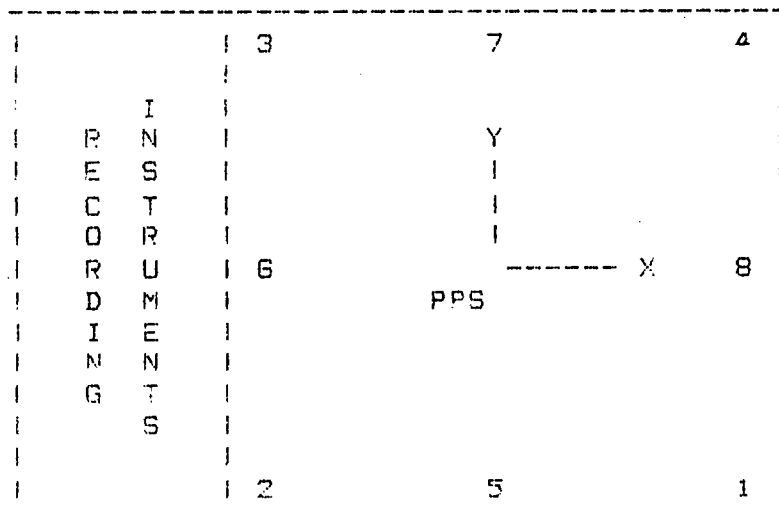
Principal Point of Autocollimation (PPA) and Fiducial Center (FC)

-----  
 Referring to Principal Point of Symmetry (PPS), see Diagram

	X (mm)	Y (mm)
PPA	0.0038	0.0023
FC	0.0022	0.0016

FIDUCIAL MARKS, REFERRING TO PPS

	X (mm)	Y (mm)
1	105.999	-105.994
2	-105.992	-105.991
3	-105.997	106.000
4	106.007	106.006

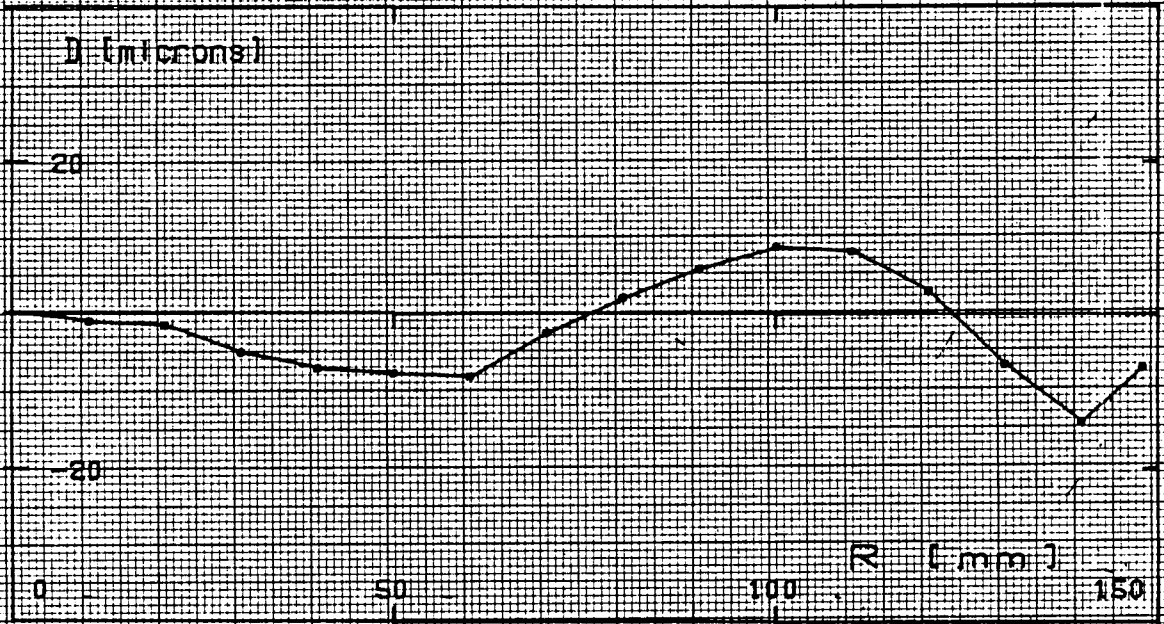


As seen on Focal Plane Frame

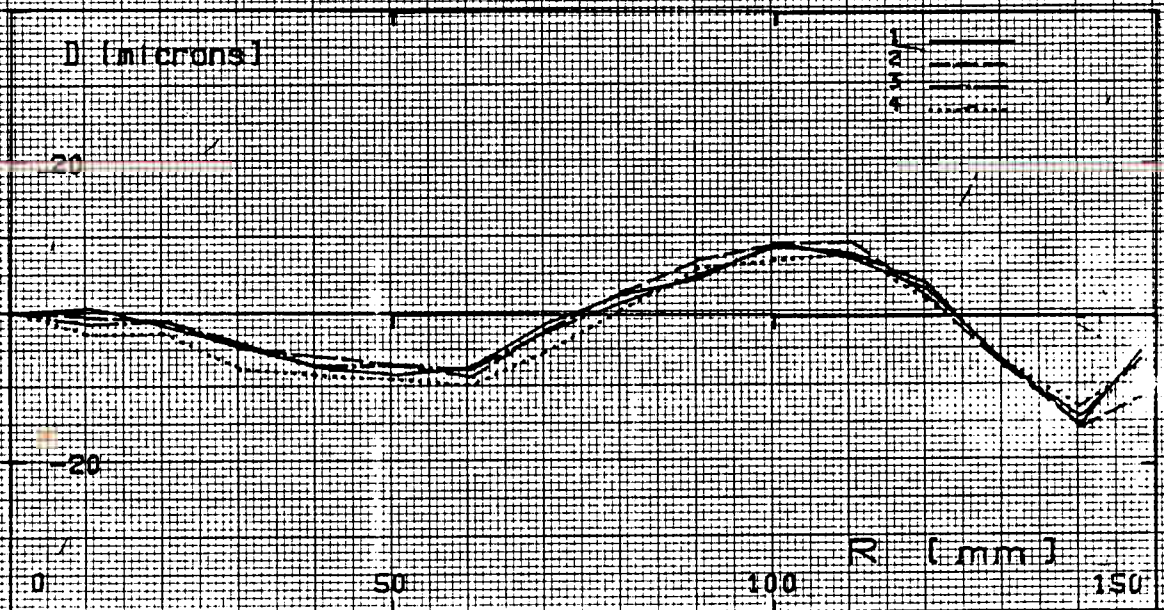
to

RC 10 8.8 SAG II NO. 2152 04.12.81

APERTURE : F/5.6  
FILTER ON GONIOMETER : 450 NM  
FILTER ON CAMERA :  
C.F.D. : 88.06 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS