

# CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC10

LENS TYPE : 8.8 SAG II

LENS NO. : 2148

CALIBRATION DATE : 01.05.84

WILD HEERBRUGG LTD



CAMERA CALIBRATION

CAMERA: RC10 LENS: 8.8 SAG II NO.: 2148 CALIBRATION DATE: 01.05.84

APERTURE : F / 5.6  
 FILTER ON GONIOMETER : 450 NM  
 FILTER ON CAMERA : --  
 CALIBRATED FOCAL LENGTH : 87.97 MM

RADIAL DISTORTION (MICROMETERS)

REFERRED TO PRINCIPAL POINT OF SYMMETRY (PPS)  
 (POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER)

RADIUS MM	SEMI - DIAGONALS				MEAN
	1	3	2	4	
10	-1.5	-2.3	-1.7	-2.2	-1.9
20	-3.8	-4.8	-3.6	-4.3	-4.1
30	-7.2	-7.5	-6.7	-7.4	-7.2
40	-9.7	-9.5	-9.4	-9.5	-9.5
50	-10.4	-10.9	-10.2	-10.3	-10.4
60	-9.5	-8.8	-8.1	-8.7	-8.7
70	-5.2	-4.8	-4.8	-4.5	-4.8
80	0.1	1.0	1.0	1.2	0.8
90	6.3	6.8	6.6	7.1	6.7
100	9.7	10.7	11.2	10.7	10.5
110	8.9	9.0	10.4	9.7	9.5
120	2.6	2.7	3.3	3.8	3.1
130	-6.6	-6.2	-5.0	-4.3	-5.5
140	-13.3	-13.7	-11.0	-12.1	-12.5
148	-3.9	-5.7	-6.6	-6.0	-5.5

PHOTOGRAPHIC RESOLUTION (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 STUDIOLAN LIQUID 1:15 6 MIN

ANGLE: (DEGREES)	0	5	10	15	20	25	30	35	40	45	50	55	60
RAD.	72	91	90	88	54	37	31	37	49	72	37	37	14
TANG.	72	90	70	60	64	59	54	49	48	41	43	34	20

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

10.

CAMERA CALIBRATION

CAMERA: RC10 LENS: B.8 SAG II NO.: 2148 CALIBRATION DATE: 01.05.84

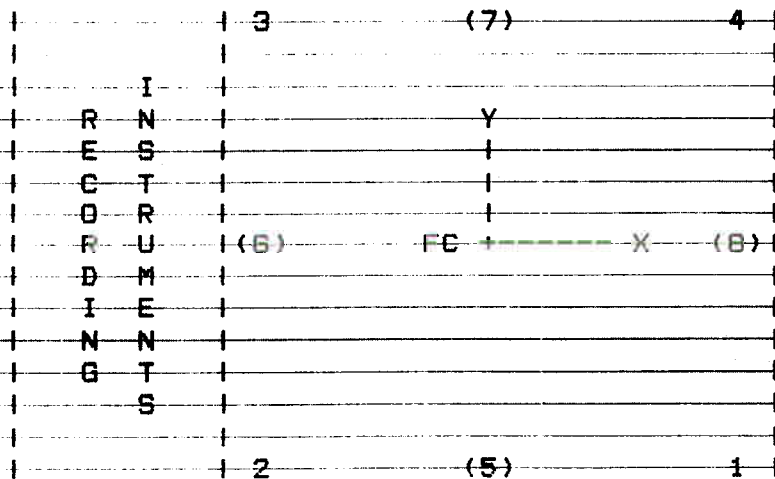
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND  
PRINCIPAL POINT OF SYMMETRY (PPS)

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REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	0.001	0.001
SPS	0.000	0.004

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FIDUCIAL MARKS, REFERRED TO FC

	X (MM)	Y (MM)
1	-105.998	-105.994
2	-106.002	-105.999
3	-106.010	106.007
4	106.005	106.001

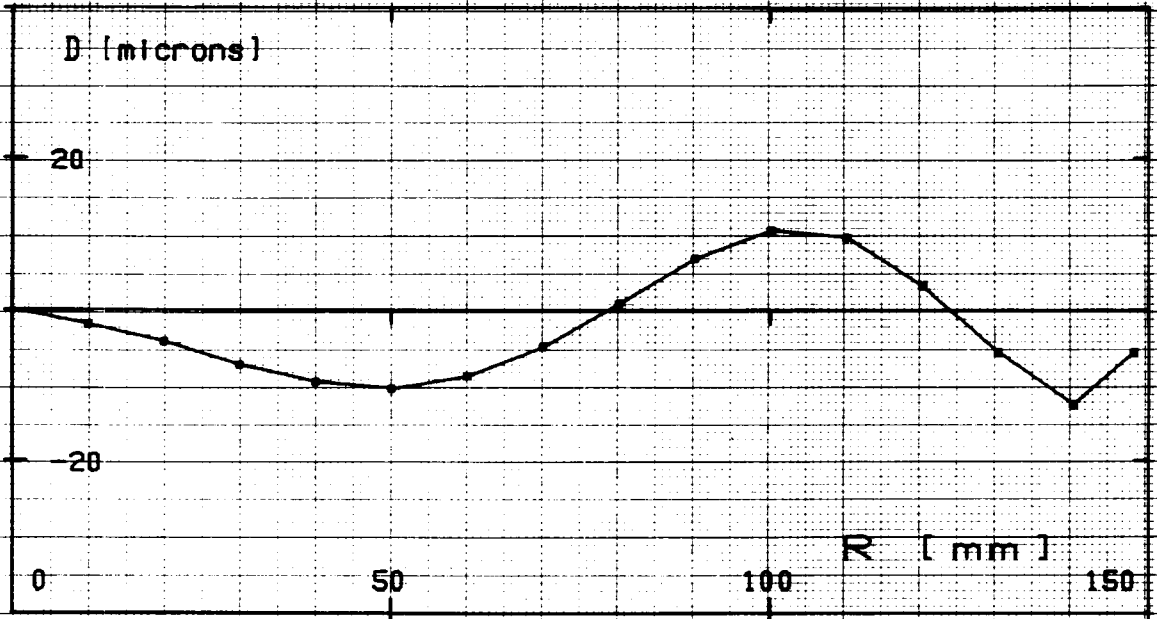


AS SEEN ON FOCAL PLANE FRAME

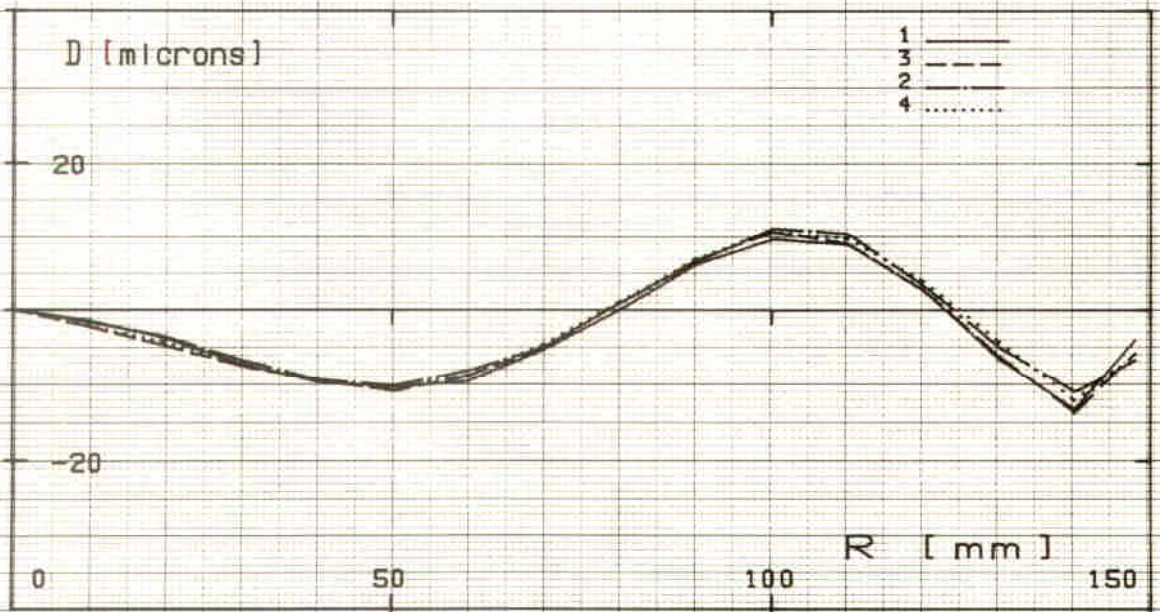
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FILTER ON CAMERA : --  
C.F.L. : 87.97 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS