

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC10

LENS TYPE : 15/4 UAG

LENS NO. : 13003

CALIBRATION DATE : 18.02.82

WILD HEERBRUGG LTD

CAMERA CALIBRATION

CAMERA: RC10 LENS: 15/4 UAG NO.: 13003 CALIBRATION DATE : 18.02.82

APERTURE : F / 4  
 FILTER ON GONIOMETER : VIS (400 - 700 NM)  
 FILTER ON CAMERA : --  
 CALIBRATED FOCAL LENGTH : 153.18 MM

RADIAL DISTORTION (MICROMETERS) REFERRED TO PRINCIPAL POINT OF SYMMETRY (PP)  
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 (POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER)

RADIUS MM	SEMI - DIAGONAL				MEAN
	1	3	2	4	
10	0.2	-0.2	-0.2	0.0	0.0
20	-0.3	-0.7	-0.6	-0.2	-0.4
30	-1.5	-1.4	-1.1	-1.3	-1.3
40	-2.6	-2.3	-2.3	-2.0	-2.3
50	-2.6	-3.6	-2.5	-3.1	-2.9
60	-3.0	-3.2	-2.0	-3.2	-2.8
70	-1.4	-2.9	-1.6	-2.5	-2.1
80	-0.6	-1.1	-0.4	-0.8	-0.7
90	1.5	0.6	0.8	0.7	0.9
100	2.3	0.9	2.5	1.1	1.7
110	3.2	1.4	3.5	2.0	2.5
120	3.0	1.9	2.7	2.4	2.5
130	1.5	1.9	1.8	2.1	1.8
140	-1.2	0.7	-0.5	0.5	-0.1
148	-3.5	-1.4	-2.5	-0.8	-2.0

PHOTOGRAPHIC RESOLUTION (LINE PAIRS PER MI)

INTERNATIONAL 3-LINE TEST-CHART, CONTRAST (LOG) : 2.0

APERTURE : 4  
 FILTER : 450 NM  
 FILM : AGFAPAN 25 PROFESSIONAL (ASA SPEED: 25)  
 DEVELOPER : AGFA-GEVAERT STUDIONAL LIQUID 1:15 6 MIN

ANGLE: (DEGREES)	0	5	10	15	20	25	30	35	40	45
RAD.	67	75	74	91	70	68	73	77	65	38
TANG.	67	66	65	62	59	69	71	63	55	38

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 68

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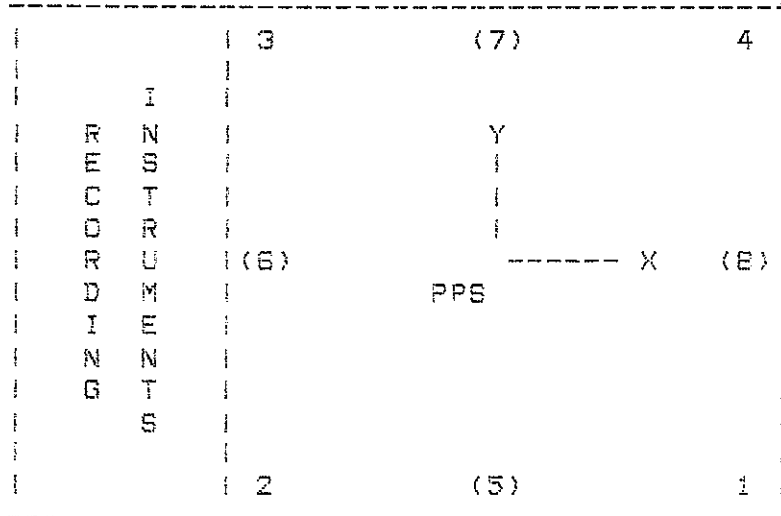
PRINCIPAL POINT OF AUTO-COLLIMATION (PPA) AND FIDUCIAL CENTER (FC)

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 REFERRED TO PRINCIPAL POINT OF SYMMETRY (PPS), SEE DIAGRAM

	X (MM)	Y (MM)
PPA	-0.004	0.006
FC	-0.001	0.002

FIDUCIAL MARKS, REFERRED TO PPS

	X (MM)	Y (MM)		X (mm)	Y (mm)
1	106.004	-105.991	5	0.001	-109.992
2	-106.000	-105.996	6	-109.995	0.007
3	-106.001	106.004	7	0.007	110.001
4	106.007	106.003	8	109.999	0.011

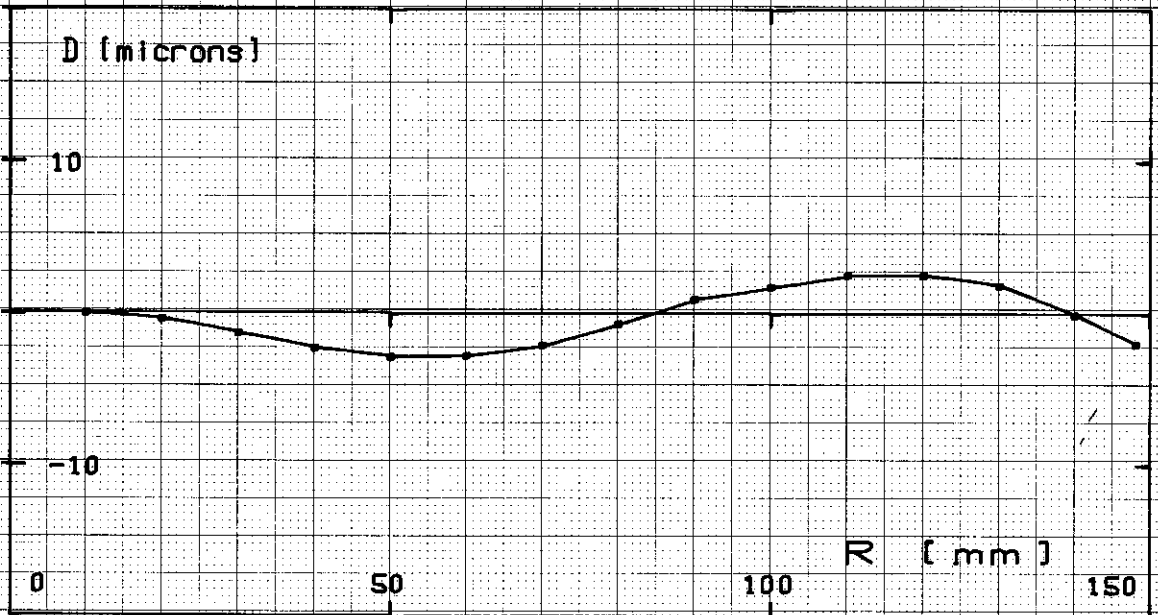


AS SEEN ON FOCAL PLANE FRAME

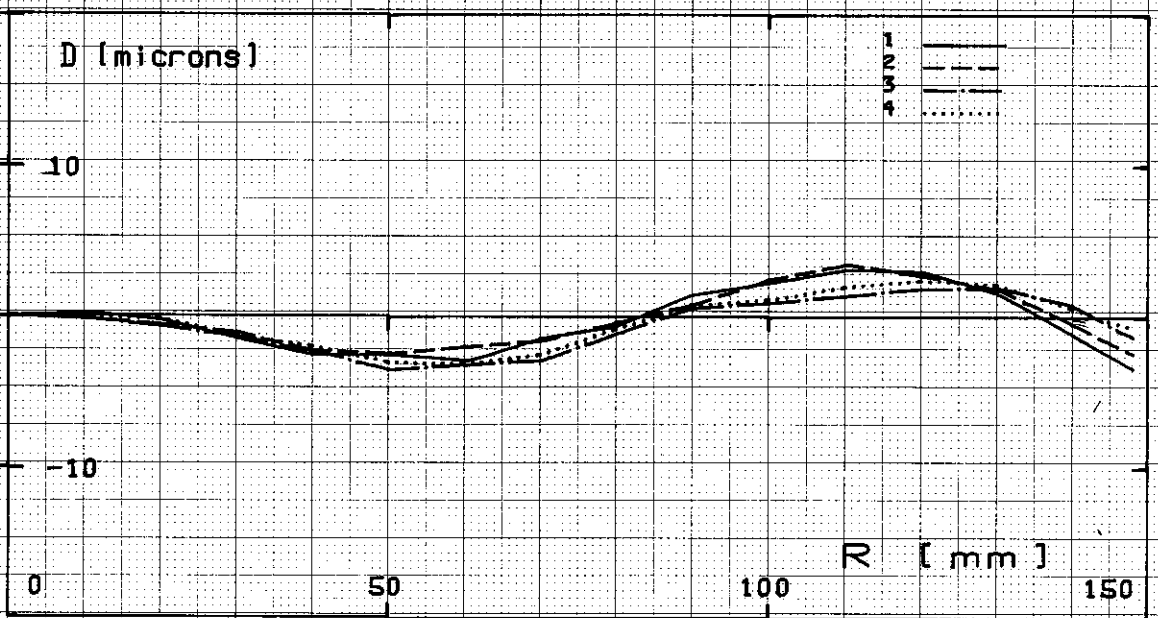
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FILTER ON CAMERA : --  
C.F.L. : 153.18 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS