

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC10

LENS TYPE : 1574 UAG

LENS NO. : 13003

9

CALIBRATION DATE : 18.12.85

WILD HEERBRUGG LTD



## CAMERA CALIBRATION

CAMERA: RC10 LENS: 15/4 UAG NO.: 13003 CALIBRATION DATE: 18.12.85

APERTURE : F / 4.0  
 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 (PPS)  
 (POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER)

RADIUS	SEMI - DIAGONALS				MEAN
M	1	3	2	4	
0	0.5	-0.3	0.2	0.2	0.1
20	0.9	-0.5	0.3	-0.1	0.1
30	-0.4	-1.6	-0.5	-1.3	-0.9
40	-1.2	-2.8	-1.6	-2.2	-1.9
50	-1.5	-4.2	-1.9	-3.4	-2.7
60	-2.5	-4.3	-1.9	-3.7	-3.1
70	-2.1	-3.6	-2.1	-2.7	-2.6
80	-1.0	-2.1	-0.5	-0.9	-1.1
90	0.8	-0.9	0.5	0.4	0.2
100	0.9	0.3	2.1	1.9	1.3
110	1.7	1.0	3.2	3.2	2.2
120	2.2	1.6	3.4	3.7	2.7
130	0.8	1.4	3.0	3.2	2.1
140	-1.4	0.2	1.4	1.8	0.5
148	-4.0	-1.9	-0.2	0.3	-1.4

## PHOTOGRAPHIC RESOLUTION (LINE PAIRS PER MILLIMETER)

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

APERTURE : 4.0

FILTER : 450 NM

FILM : AGFAPAN 25 PROFESSIONAL (ASA SPEED: 25)

DEVELOPER : AGFA-GEVAERT STUDIOAL 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

*M.*

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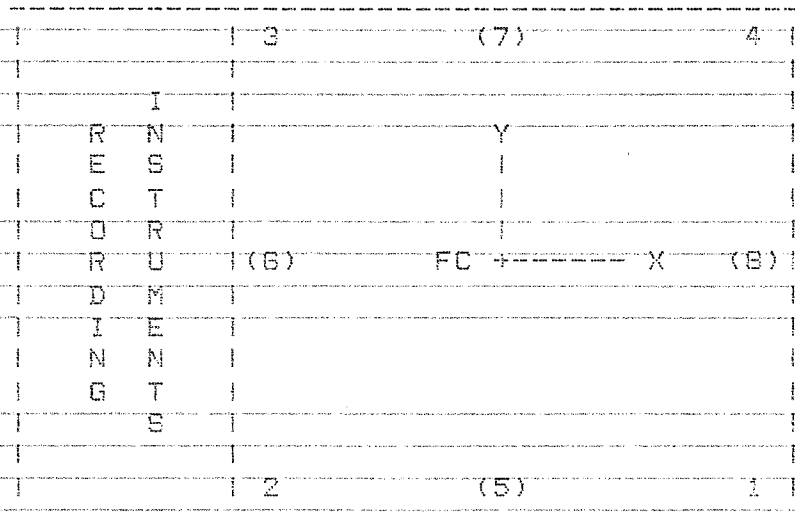
PRINCIPAL POINT OF AUTO-COLLIMATION (PPA) AND  
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	-0.002	0.003
PPS	-0.001	-0.004

FIDUCIAL MARKS, REFERRED TO FC

	X (MM)	Y (MM)		X (MM)	Y (MM)
1	105.988	-105.991	5	0.005	-110.000
2	-106.002	-106.003	6	-109.994	0.004
3	-105.997	105.999	7	0.001	109.998
4	105.998	105.998	8	109.989	0.002



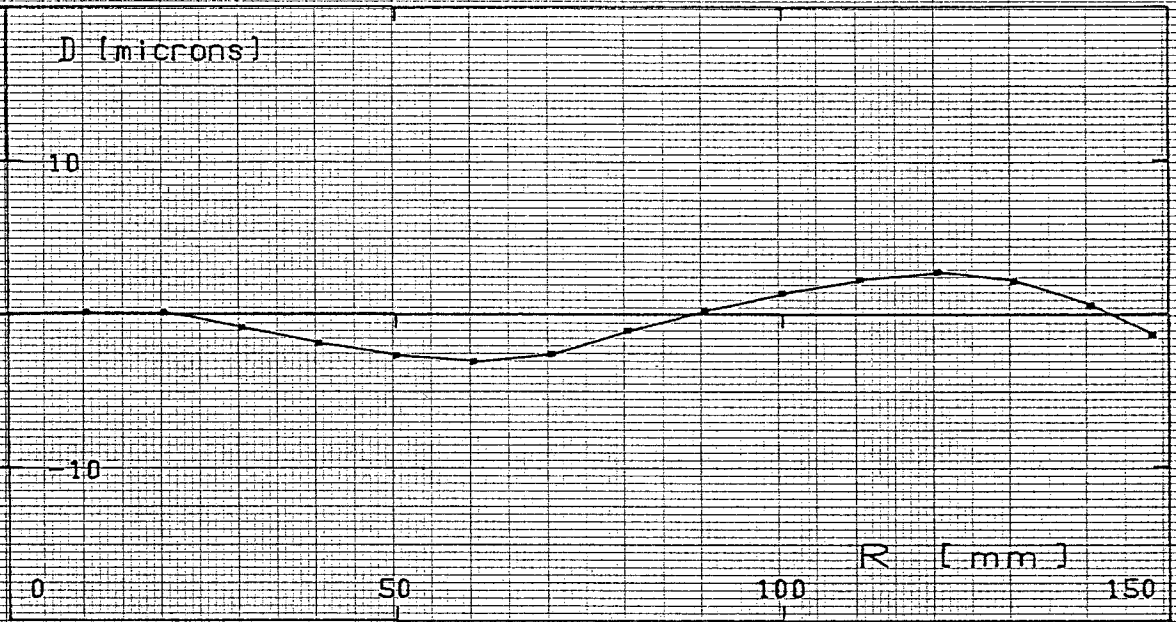
AS SEEN ON FOCAL PLANE FRAME

*Handwritten signature*

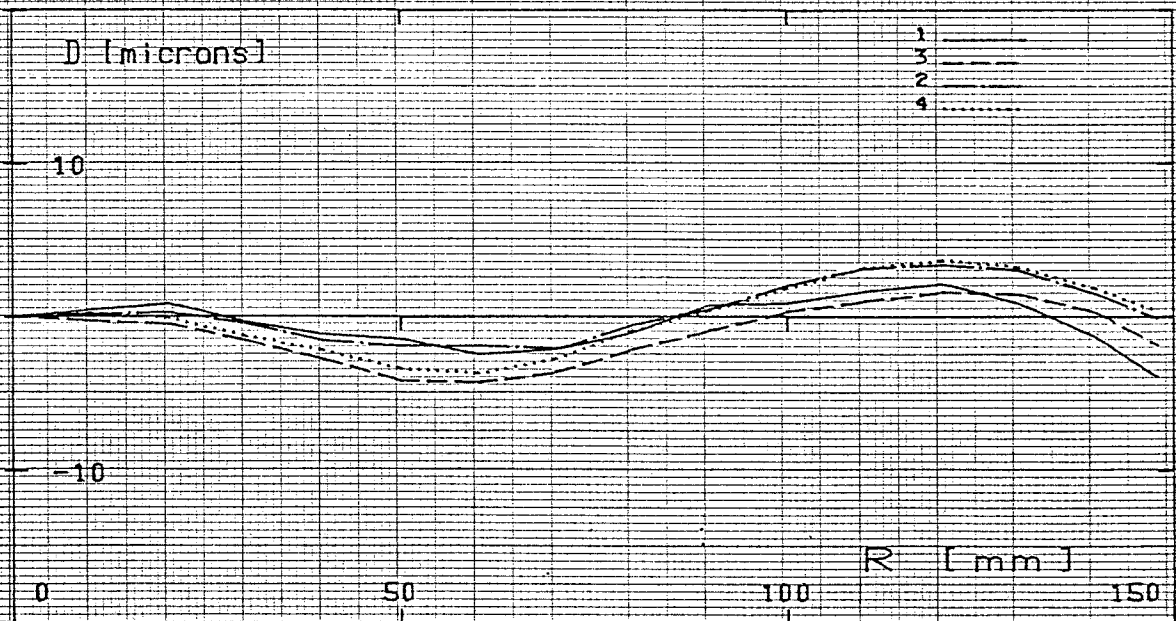
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FILTER ON CAMERA : --  
C.F.L. : 153.18 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS