

# CAMERA CALIBRATION CERTIFICATE

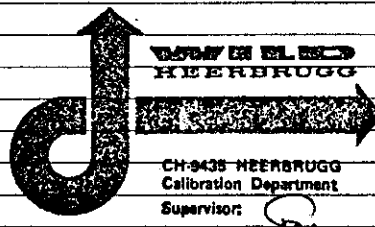
CAMERA TYPE : RC10

LENS TYPE : 15/4 UAG

LENS NO. : 13003

CALIBRATION DATE : 16.12.83

WILD HEERBRUGG LTD



## CAMERA CALIBRATION

CAMERA: RC10 LENS: 15/4 UAG NO.: 13003 CALIBRATION DATE: 16.12.83

APERTURE : F / 4.0  
 FILTER ON GONIOMETER : VIS (400 - 700 NM)  
 FILTER ON CAMERA : --  
 CALIBRATED FOCAL LENGTH : 153.18 MM

## RADIAL DISTORTION (MICROMETERS)

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 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	1.0	0.1	0.8	0.3	0.5
20	1.1	0.0	1.0	0.4	0.6
30	0.3	-0.3	0.5	-0.1	0.1
40	-0.4	-1.3	-0.3	-1.1	-0.7
50	-0.4	-2.4	-0.5	-2.0	-1.3
60	-1.2	-2.9	-0.6	-2.7	-1.8
70	-0.7	-2.3	-0.8	-1.7	-1.3
80	-0.2	-1.0	0.1	-0.8	-0.4
90	0.6	-0.3	1.4	0.3	0.5
100	1.1	0.9	3.0	2.0	1.7
110	1.5	1.4	3.5	3.3	2.4
120	1.2	1.3	2.4	3.2	2.0
130	0.2	0.3	1.8	2.4	1.1
140	-2.6	-1.5	-0.4	0.5	-1.0
148	-5.2	-4.1	-2.0	-1.0	-3.0

## PHOTOGRAPHIC RESOLUTION (LINE PAIRS PER MILLIMETER)

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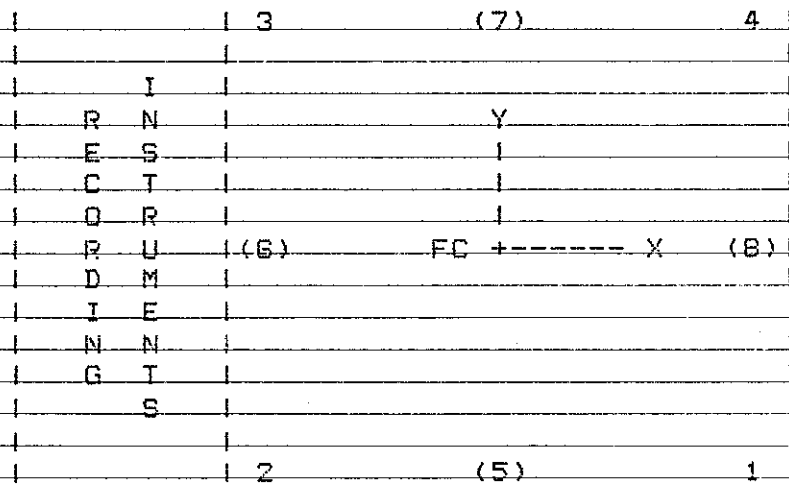
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND  
PRINCIPAL POINT OF SYMMETRY (PPS)

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REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	0.004	-0.001
S	0.007	-0.007

FIDUCIAL MARKS, REFERRED TO FC

	X (MM)	Y (MM)		X (MM)	Y (MM)
1	105.999	-105.998	5	-0.001	-109.995
2	-106.005	-106.004	6	-109.994	0.004
3	-106.001	106.000	7	-0.001	110.001
4	105.998	105.996	8	109.990	0.004

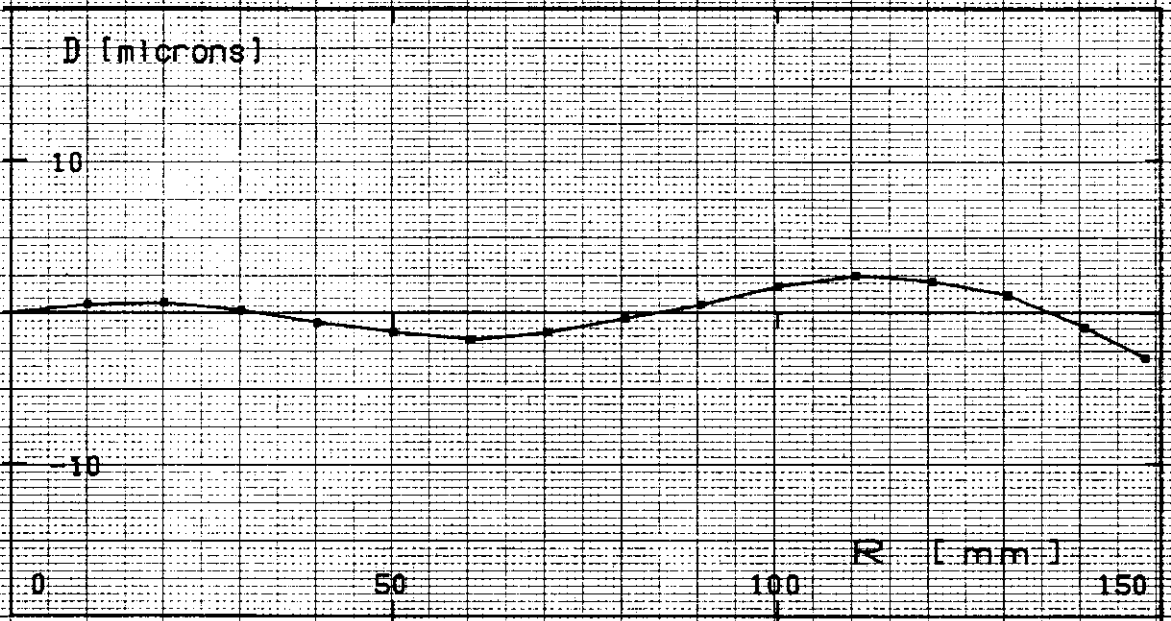


AS SEEN ON FOCAL PLANE FRAME

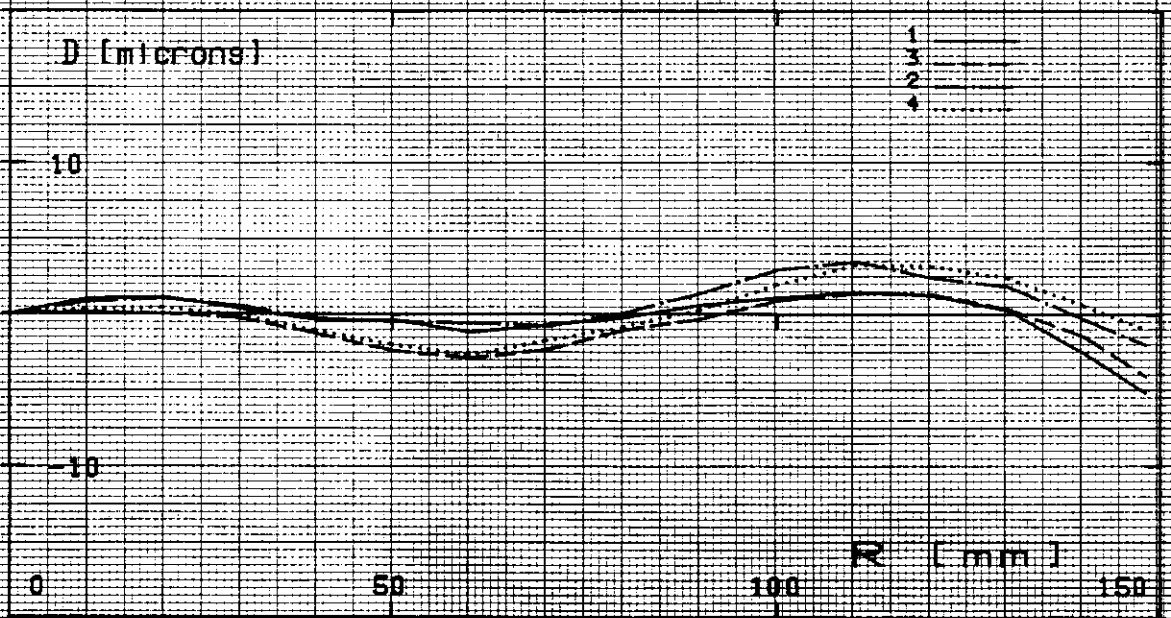
RC10 1574 UAG NO. 13003

16.12.83

APERTURE : F / 4.0  
FILTER ON GONIOMETER : UIS (400 - 700 NM)  
FILTER ON CAMERA : —  
C.F.L. : 153.18 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS