

10. 11. 1983

**CAMERA CALIBRATION CERTIFICATE**

**CAMERA TYPE : RC10**

**LENS TYPE : 15 UAG II**

**LENS NO. : 3008**

**CALIBRATION DATE : 10.03.85**

**WILD HEERBRUGG LTD**

CAMERA CALIBRATION

CAMERA: RC10 LENS: 15 UAG II NO.: 3008 CALIBRATION DATE: 10.03.83

APERTURE : F / 4.0  
 FILTER ON GONIOMETER : 450 NM  
 FILTER ON CAMERA :  
 CALIBRATED FOCAL LENGTH : 153.02 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	0.4	-0.6	0.2	-0.9	-0.2
20	0.3	-0.9	0.4	-1.2	-0.3
30	-0.5	-0.6	-0.1	-1.2	-0.6
40	-0.3	-0.2	-0.1	-1.2	-0.4
50	0.6	-0.4	0.4	-1.3	-0.1
60	0.1	1.1	1.0	-0.5	0.4
70	0.8	2.3	0.6	1.2	1.2
80	1.1	3.6	1.2	2.1	2.0
90	2.2	3.8	1.3	2.5	2.4
100	1.0	2.9	1.5	1.8	1.8
110	0.0	0.5	0.5	0.7	0.4
120	-1.7	-1.1	-2.1	-1.1	-1.5
130	-2.8	-2.0	-2.4	-1.7	-2.2
140	-2.9	-3.0	-2.0	-2.4	-2.5
148	1.2	-3.4	1.3	-0.3	-0.3

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 STUDIOLAB LIQUID 1:15 6 MIN

ANGLE: DEGREES)	0	5	10	15	20	25	30	35	40	45
AD.	75	75	93	46	35	38	58	69	26	12
ANG.	75	84	58	49	53	55	63	57	35	27

WAR. (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 52

CAMERA CALIBRATION

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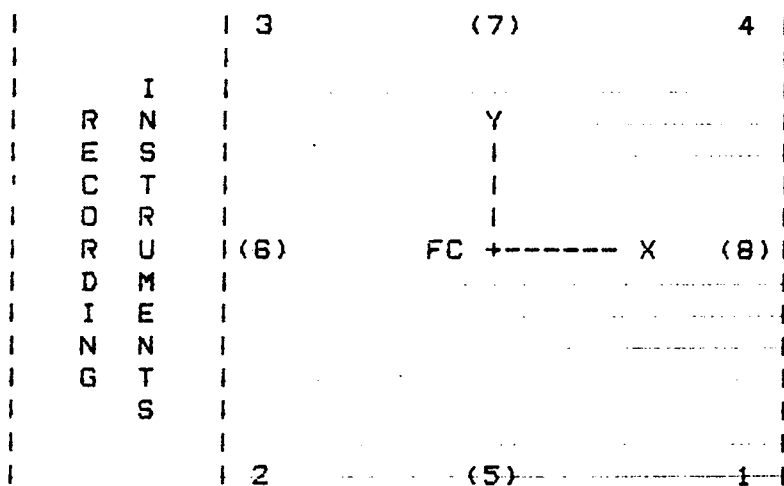
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND  
 PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	0.011	0.006
S	0.002	-0.001

FIDUCIAL MARKS, REFERRED TO FC

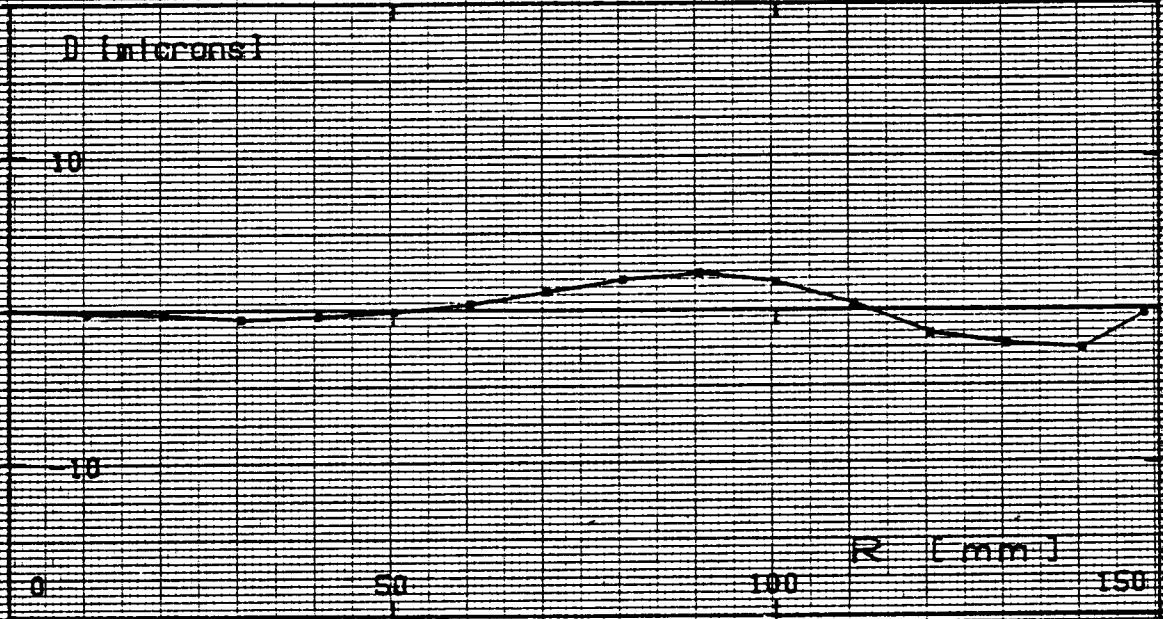
	X (MM)	Y (MM)
1	105.997	-105.999
2	-105.995	-105.996
3	-106.000	106.001
4	106.005	106.007



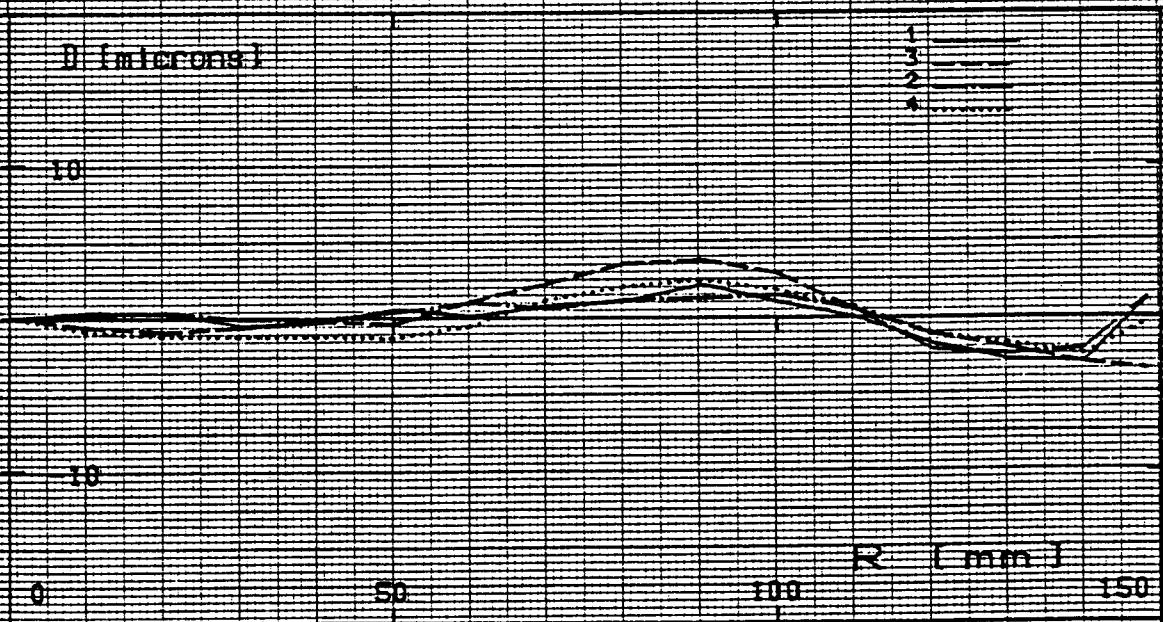
AS SEEN ON FOCAL PLANE FRAME

*[Handwritten signature]*

APERTURE : F / 4.0  
FILTER ON SONTOMETER : 450 NM  
FILTER ON CAMERA :  
C.F.L. : 153.02 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS

