

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC10

LENS TYPE : 15/4 UAG

LENS NO. : 13003

CALIBRATION DATE : 03.12.84

WILD HEERBRUGG LTD



CAMERA CALIBRATION

CAMERA: RC10 LENS: 15/4 UAG NO.: 13003 CALIBRATION DATE: 03.12.84

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 MM	SEMI - DIAGONALS				MEAN
	1	3	2	4	
10	0.7	-0.2	0.6	-0.3	0.2
20	0.6	-1.0	0.5	-0.7	-0.1
30	-0.5	-2.2	-0.2	-1.9	-1.2
40	-1.1	-3.5	-1.2	-3.3	-2.2
50	-0.8	-4.8	-1.3	-4.3	-2.8
60	-1.8	-5.0	-1.2	-4.6	-3.1
70	-4.2	-4.0	-1.3	-3.4	-3.2
80	-0.2	-2.3	0.5	-1.8	-0.9
90	1.9	-0.8	1.4	-0.3	0.5
100	2.1	0.9	2.8	1.5	1.8
110	2.2	1.4	3.4	3.3	2.5
120	1.9	2.0	2.1	2.9	2.2
130	0.6	1.8	2.0	3.1	1.8
140	-1.8	0.6	0.3	1.3	0.1
148	-2.8	-0.9	-1.3	1.0	-1.0

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	81	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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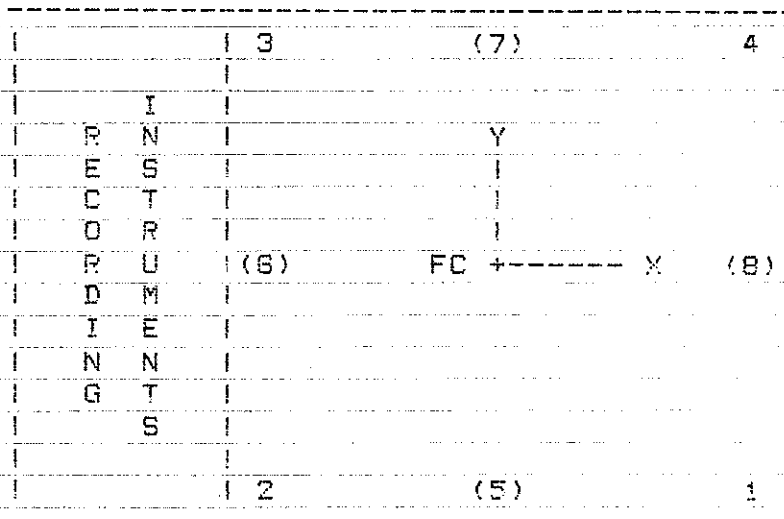
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

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

DUCIAL MARKS, REFERRED TO FC

	X (MM)	Y (MM)		X (MM)	Y (MM)
1	105.999	-105.999	5	0.003	-109.996
2	-106.003	-106.003	6	-109.996	0.002
3	-105.998	105.998	7	0.004	109.995
4	105.998	105.997	8	109.991	0.002



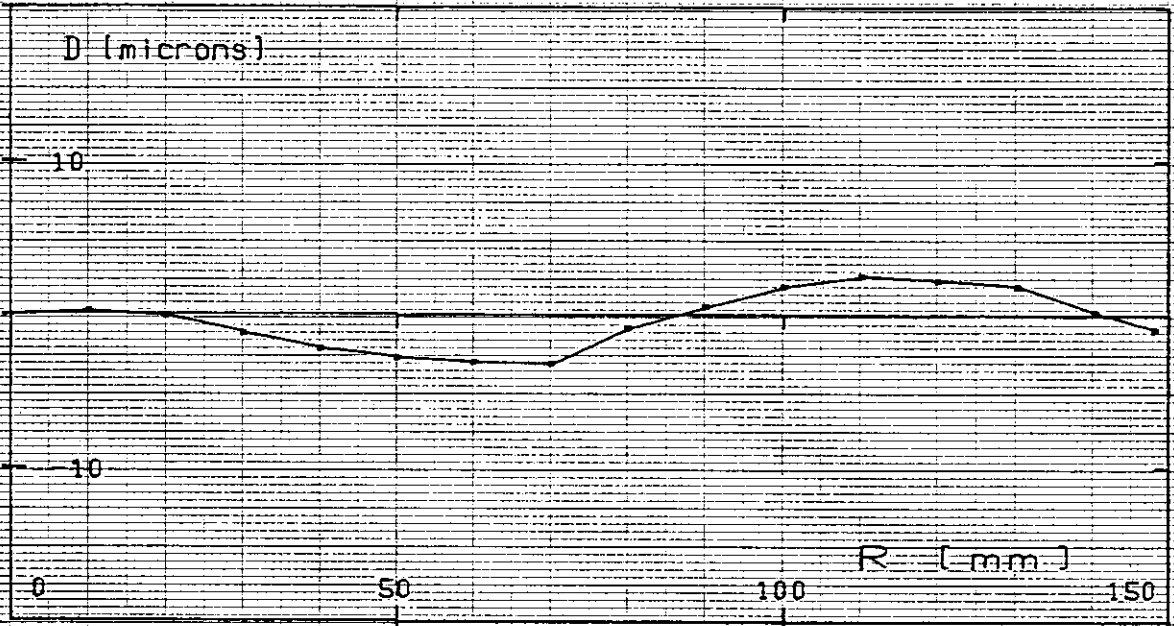
AS SEEN ON FOCAL PLANE FRAME



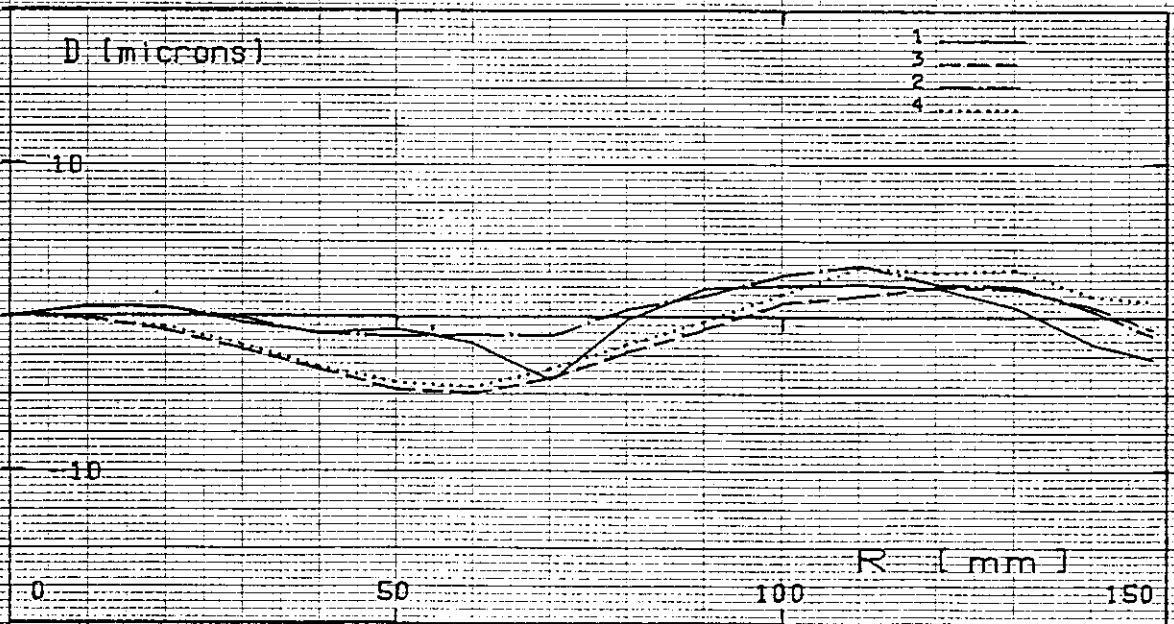
RC10 1574 UAG NO. 13003

03.12.84

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

Handwritten signature or initials.