

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC10

LENS TYPE : 30 AT II

LENS NO. : 4110

CALIBRATION DATE : 22.01.82

WILD HEERBRUGG LTD

CAMERA CALIBRATION

CAMERA : RC10 LENS : 30 AT II NO. : 4110 CALIBRATION DATE : 22.01.82

APERTURE : F / 4
 FILTER ON GONIOMETER : 450 NM
 FILTER ON CAMERA : --
 PRINCIPAL DISTANCE FOR FOCUSSING TO 850 M : 305.36 MM

RADIAL DISTORTION (MICROMETERS) REFERRING TO PRINCIPAL POINT OF SYMMETRY

 (POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER)

RADIUS MM	SEMI - DIAGONAL				MEAN
	1	3	2	4	
10	-1.4	-0.8	-0.8	-2.4	-1.3
20	-3.4	-0.7	-1.4	-2.3	-1.9
30	-3.6	-1.7	-2.7	-2.8	-2.7
40	-2.6	-2.0	-1.7	-1.9	-2.0
50	-2.8	-0.7	-1.8	-2.1	-1.8
60	-1.7	-0.4	-1.5	-1.1	-1.1
70	0.6	0.8	1.9	1.3	1.1
80	2.7	1.9	4.8	3.9	3.3
90	2.1	1.8	4.1	2.5	2.6
100	4.1	2.8	5.0	3.8	3.9
110	0.0	0.4	3.5	3.2	1.7
120	-1.6	-1.6	0.0	-1.7	-1.2
130	-3.5	-2.7	-2.0	-2.7	-2.7
140	-1.4	-1.7	-2.9	-1.5	-1.8
148	-0.6	-0.9	-0.3	2.2	0.1

PHOTOGRAPHIC RESOLVING POWER (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 STUDIOINAL LIQUID 1:15 6 MIN

ANGLE: (DEGREES)	0	5	10	15	20	25
RAD.	95	106	66	26	25	25
TANG.	95	94	51	44	30	22

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 41

CAMERA CALIBRATION

CAMERA : RC10 LENS : 30 AT II NO. : 4110 CALIBRATION DATE : 22.01.82

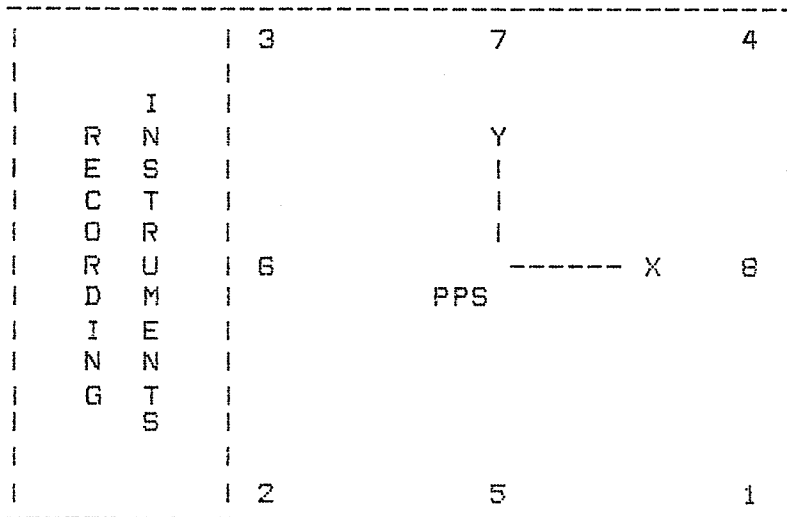
Principal Point of Autocollimation (PPA) and Fiducial Center (FC)

Referring to Principal Point of Symmetry (PPS), see Diagram

	X (mm)	Y (mm)
PPA	-0.010	-0.040
FC	-0.007	-0.028

FIDUCIAL MARKS, REFERRING TO PPS

	X (mm)	Y (mm)
1	105.986	-106.023
2	-106.007	-106.029
3	-106.003	105.969
4	105.994	105.974



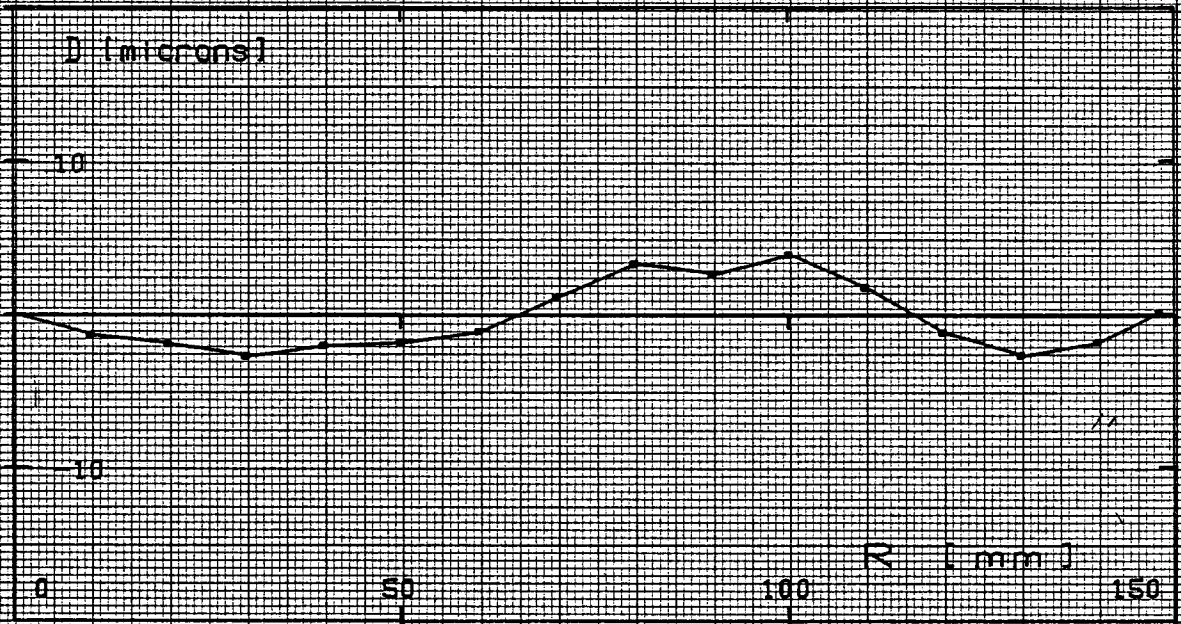
As seen on Focal Plane Frame



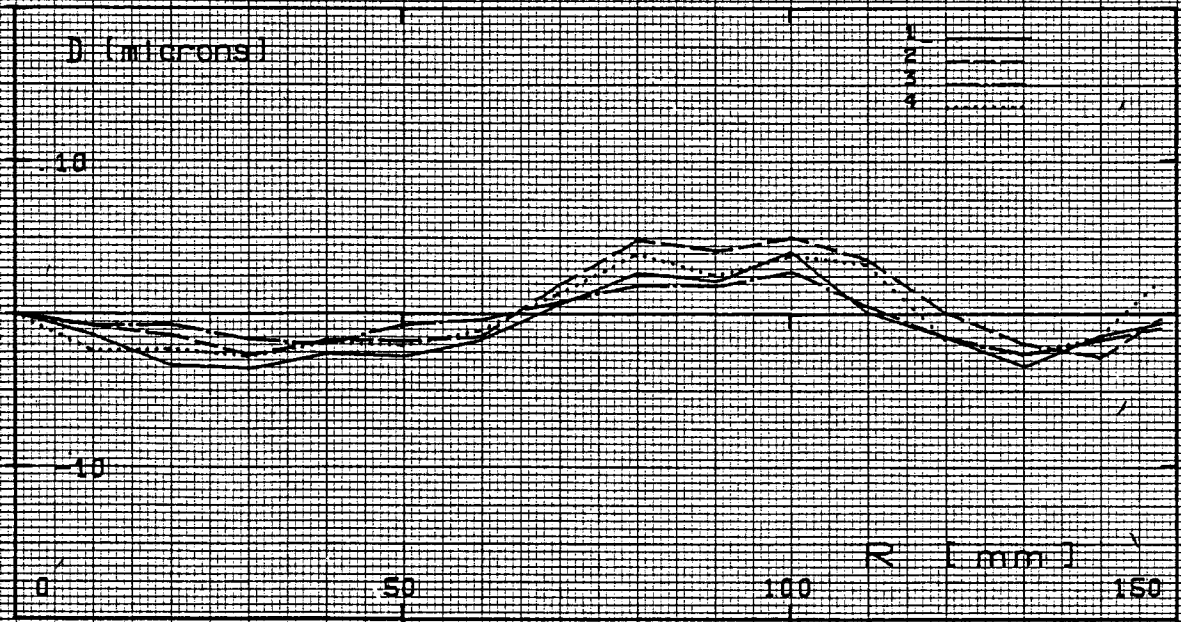
RC10 30 AT II NO. 4110

22.01.82

APERTURE : F74
FILTER ON GONIOMETER : 450 NM
FILTER ON CAMERA : ---
P.D. (850m) : 305.36 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS
REFERRING TO PPS