

CAMERA CALIBRATION CERTIFICATE

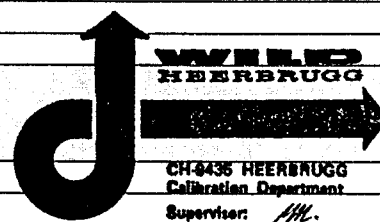
CAMERA TYPE : RC10

LENS TYPE : 30 AT II

LENS NO. : 4110

CALIBRATION DATE : 07.01.86

WILD HEERBRUGG LTD



CAMERA CALIBRATION

CAMERA: RC10 LENS: 30 AT II NO.: 4110 CALIBRATION DATE: 07.01.86

APERTURE : F / 4.0
 FILTER ON GONIUMETER : 450 NM
 FILTER ON CAMERA : --
 PRINCIPAL DISTANCE FOR FOCUSSING DISTANCE 850 M : 305.36 MM

RADIAL DISTORTION (MICROMETERS)

 REFERRED TO PRINCIPAL POINT OF SYMMETRY (PPS)
 (POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER)

F (MUS)	SEMI - DIAGONALS				MEAN
	1	3	2	4	
10	-1.1	-1.8	-0.6	-1.8	-1.3
20	-2.7	-3.3	-2.5	-3.9	-3.1
30	-4.4	-3.5	-3.5	-4.6	-4.0
40	-4.3	-3.0	-4.4	-3.6	-3.8
50	-4.2	-2.6	-3.3	-2.8	-3.2
60	-3.6	-0.7	-2.2	-1.4	-1.9
70	-0.5	1.5	-0.1	1.4	0.5
80	0.8	4.4	1.8	3.9	2.7
90	3.1	6.0	3.2	5.3	4.4
100	3.4	6.4	4.3	5.8	4.9
110	4.0	4.5	5.2	4.9	4.6
120	2.3	0.6	2.7	1.2	1.7
130	-1.5	-3.1	0.4	-2.0	-1.5
140	-3.9	-4.9	-2.2	-3.8	-3.7
148	-1.7	-4.0	-3.3	-1.7	-2.6

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 STUDIONAL LIQUID 1:15 6 MIN

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

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

Mk.

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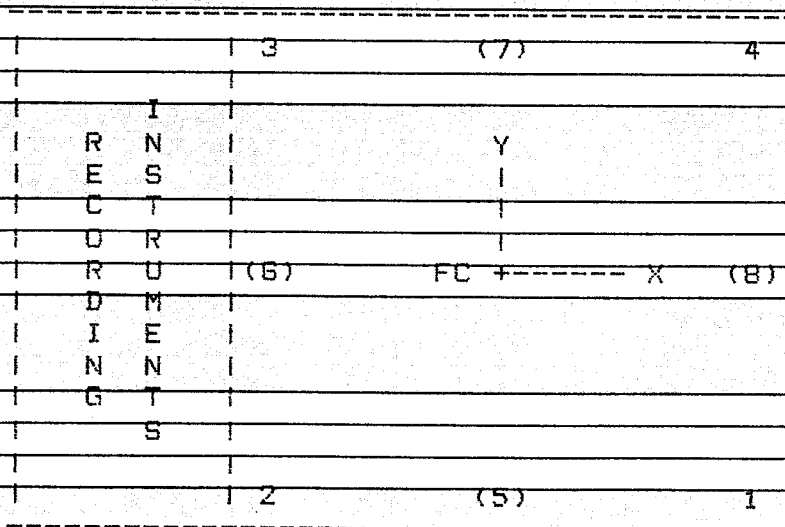
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	0.027	0.022
PS	0.023	0.020

FOCAL MARKS, REFERRED TO FC

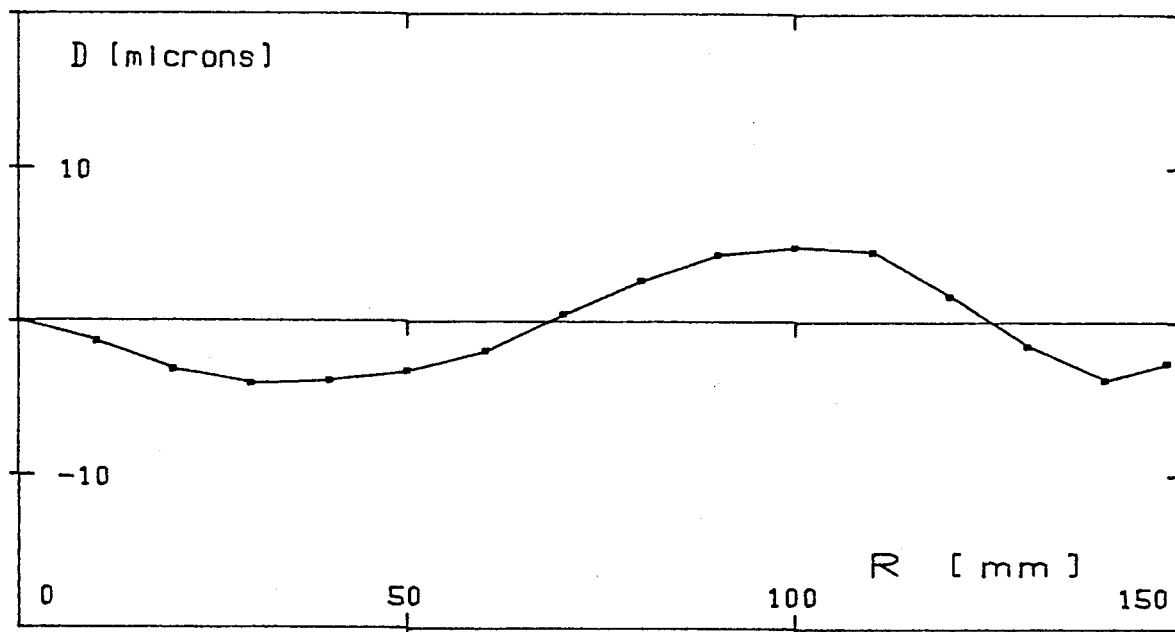
	X (MM)	Y (MM)
1	105.992	-105.993
2	-105.998	-106.000
3	-105.998	106.000
4	106.001	106.002



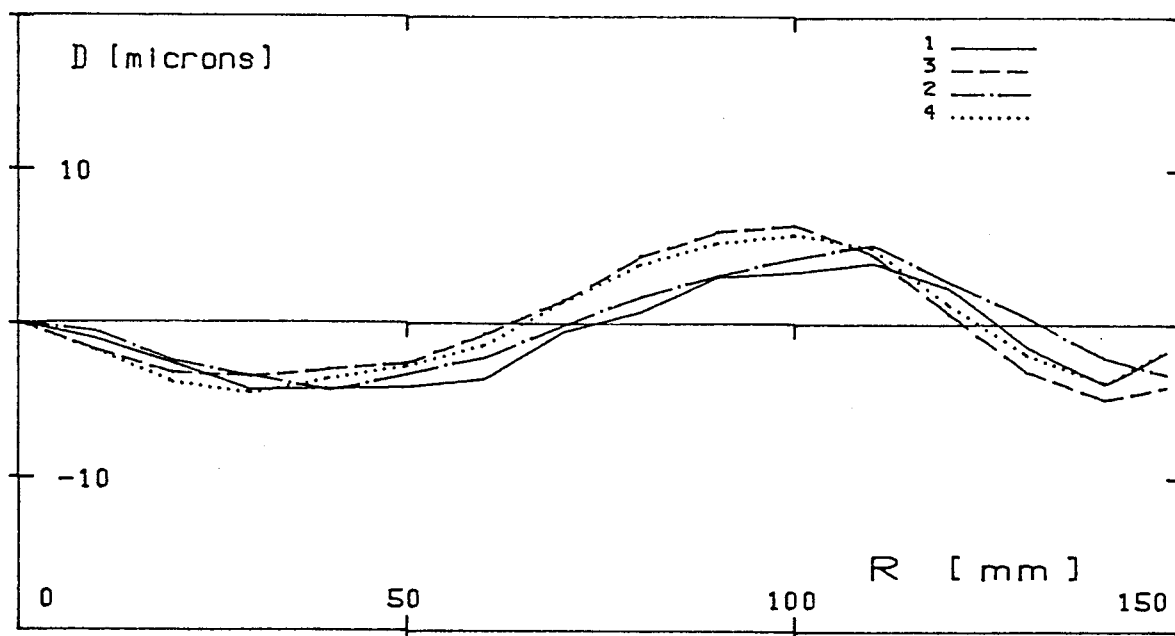
AS SEEN ON FOCAL PLANE FRAME

ME

APERTURE : F / 4.0
 FILTER ON GONIOMETER : 450 NM
 FILTER ON CAMERA : --
 P.D. (850 m) : 305.36 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS

MW