

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC20
LENS TYPE : 30/4 NATA-F
LENS NO. : 17027

CALIBRATION DATE : 25.11.87

WILD HEERBRUGG LTD



CAMERA CALIBRATION

CAMERA: RC20 LENS: 30/4 NATA-F NO.: 17027 CALIBRATION DATE: 25.11.87

APERTURE : F / 4.0
 FILTER ON GONIOMETER : VIS (400 - 700 NM)
 FILTER ON CAMERA : --
 PRINCIPAL DISTANCE FOR FOCUSING DISTANCE 850 M : 303.98 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	0.2	-0.2	0.0	-0.5	-0.1
20	0.7	-0.7	0.7	-0.7	0.0
30	0.3	0.2	0.9	-0.3	0.2
40	1.1	-0.6	1.8	-0.2	0.5
50	1.5	-0.8	2.2	-0.3	0.6
60	2.1	-1.4	2.5	-1.3	0.4
70	1.8	-1.2	2.3	-1.2	0.4
80	1.1	-1.0	1.6	-1.1	0.1
90	1.0	-1.8	0.9	-1.6	-0.3
100	0.6	-1.7	1.8	-1.5	-0.2
110	0.4	-0.6	0.5	-0.8	-0.1
120	-1.0	0.8	-0.2	0.5	0.0
130	0.1	0.9	-0.8	1.1	0.3
140	-1.1	0.8	-1.0	1.0	0.0
148	-2.2	0.0	-2.6	0.2	-1.1

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: (DEGREES)	0	5	10	15	20	25
RAD.	67	67	66	46	50	48
TANG.	67	67	58	49	53	55

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 54

M.

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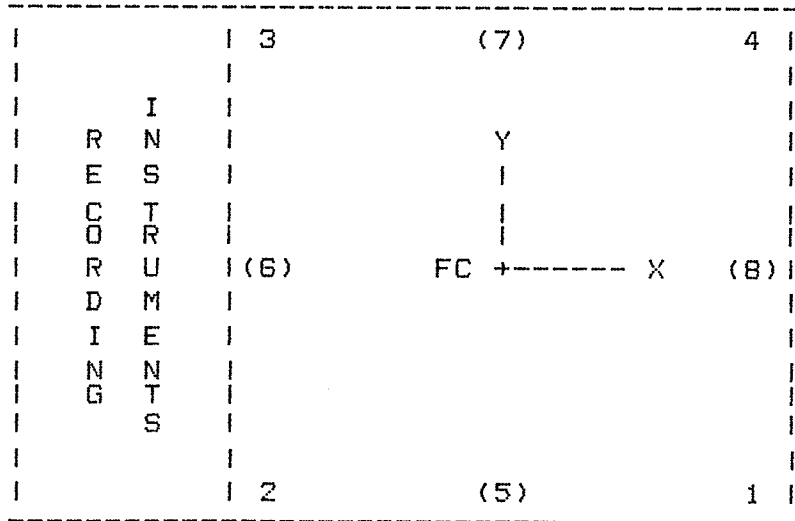
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	-0.004	0.000
S	-0.016	0.010

FIDUCIAL MARKS, REFERRED TO FC

	X (MM)	Y (MM)
1	105.995	-105.997
2	-106.003	-106.005
3	-106.000	106.002
4	105.999	106.001

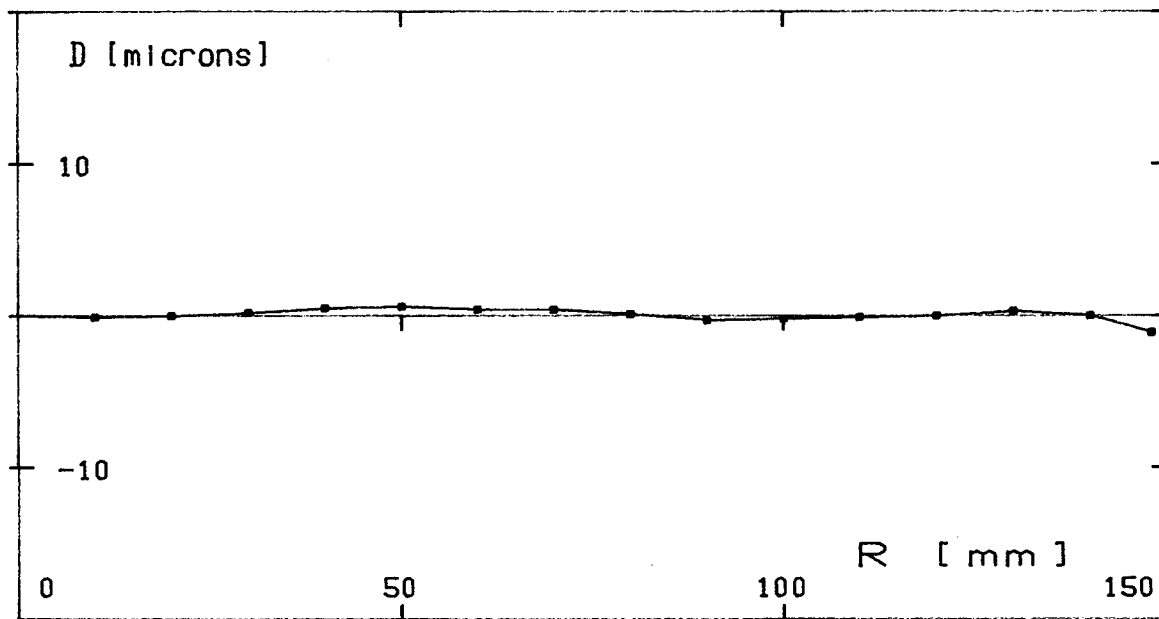


AS SEEN ON FOCAL PLANE FRAME

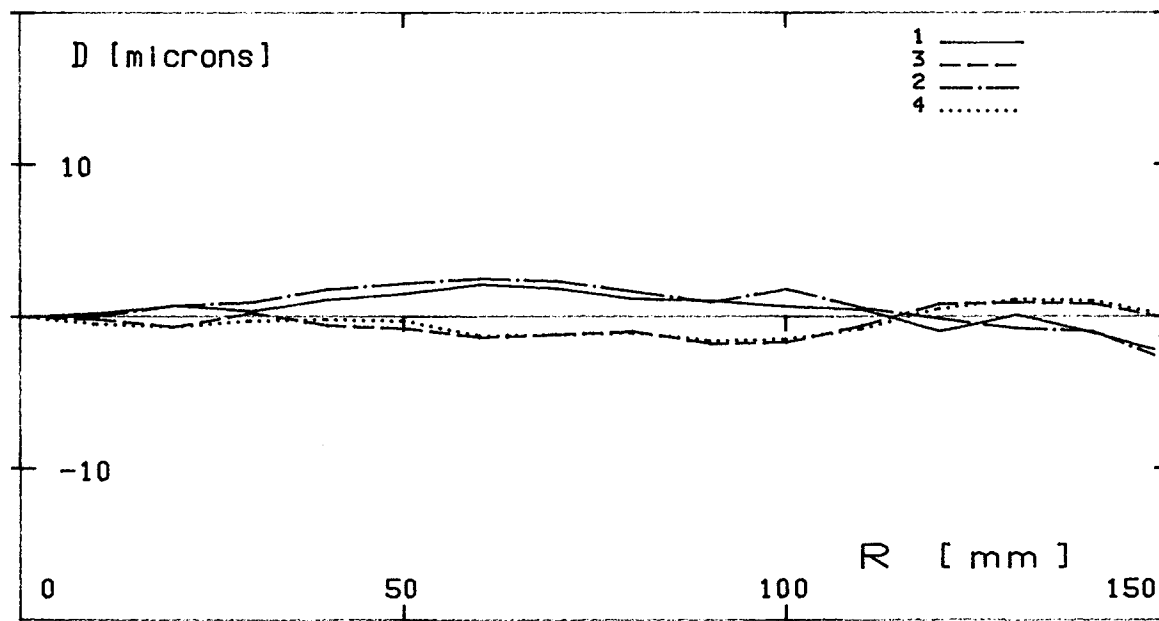


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APERTURE : F / 4.0
FILTER ON GONIOMETER : VIS (400 - 700 NM)
FILTER ON CAMERA : --
P.D. (850 m) : 303.98 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS

MLL