

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC20
LENS TYPE : 21 NAGIA-F
LENS NO. : 7181

CALIBRATION DATE : 09.08.87^{6.}

WILD HEERBRUGG LTD



7 CAMERA CALIBRATION

CAMERA: R020 LENS: 21 NAGIA-F NO.: 7181 CALIBRATION DATE: 08.08.87

APERTURE : F / 4.0
 FILTER ON GONIOMETER : 450 NM
 FILTER ON CAMERA : --
 PRINCIPAL DISTANCE FOR FOCUSING DISTANCE 800 MM : 214.85 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	1.4	0.5	1.0	0.4	0.8
20	2.2	1.0	2.0	1.1	1.5
30	1.8	2.2	2.7	1.8	2.1
40	2.7	3.3	2.8	3.1	3.0
50	3.4	3.4	3.3	3.3	3.3
60	2.3	3.0	3.3	2.5	2.7
70	0.7	1.2	0.8	1.1	0.8
80	-1.5	0.2	-0.8	-0.2	-0.5
90	-2.4	-0.8	-2.0	-1.6	-1.7
100	-3.7	-2.1	-3.7	-2.8	-3.0
110	-3.0	-2.8	-2.8	-2.8	-2.8
120	-1.8	-2.5	-2.4	-2.3	-2.2
130	-0.1	-1.5	-0.6	-0.8	-0.7
140	0.8	0.5	1.5	0.8	0.8
148	2.0	1.4	2.7	2.3	2.1

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 : KODAK D110 PREPARATION 2 SOLUTION C

ANGLE: (DEGREES)	0	5	10	15	20	25	30	35
RAD.	75	84	74	73	58	43	41	62
TANG.	75	84	75	70	53	55	50	45

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 56

M.

CAMERA CALIBRATION

CAMERA: RD20 LENS: 21 NAGIIA-F NO.: 7181 CALIBRATION DATE: 09.06.87

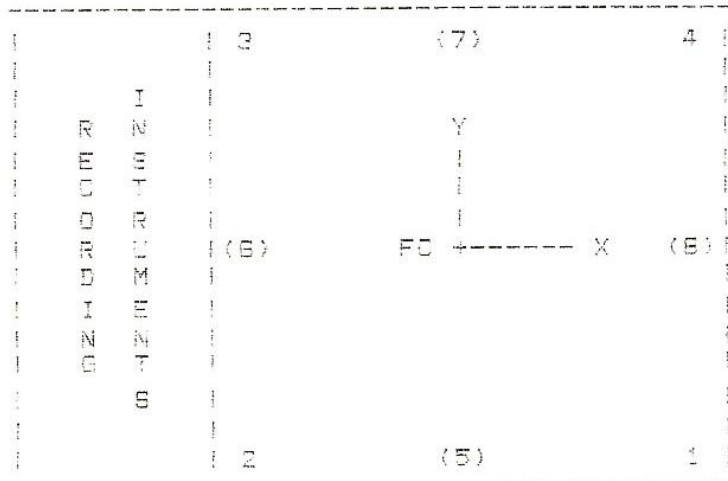
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	0.008	0.023
PPS	0.008	0.014

ADUCIAL MARKS, REFERRED TO FC

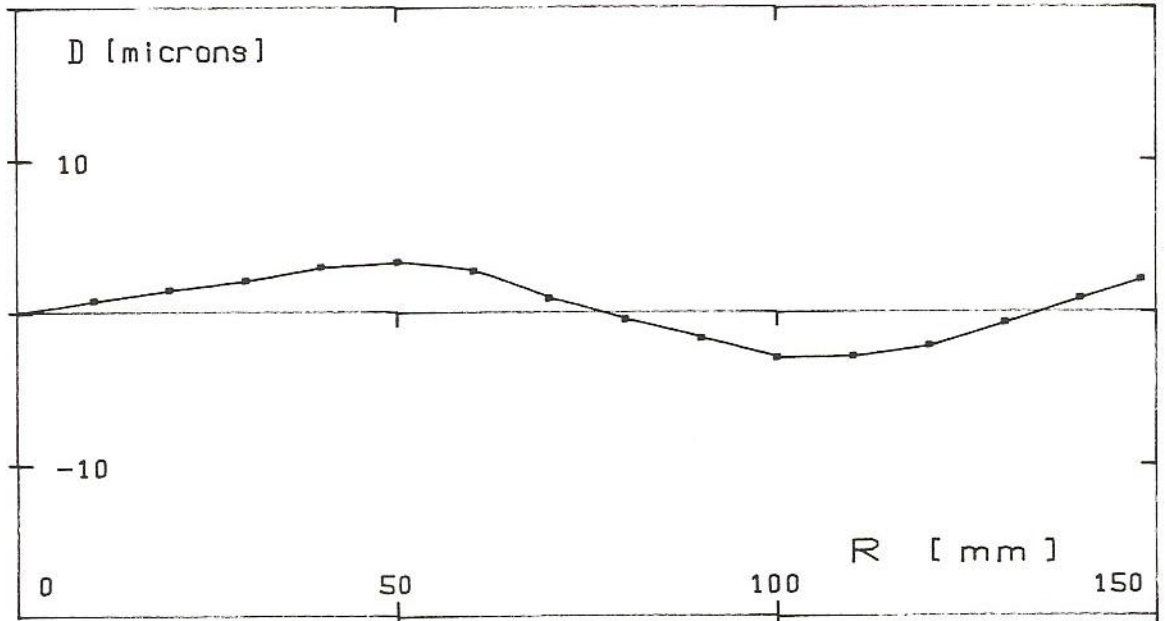
	X (MM)	Y (MM)
1	105.000	-105.001
2	-105.888	-108.001
3	-105.002	108.004
4	105.887	105.888



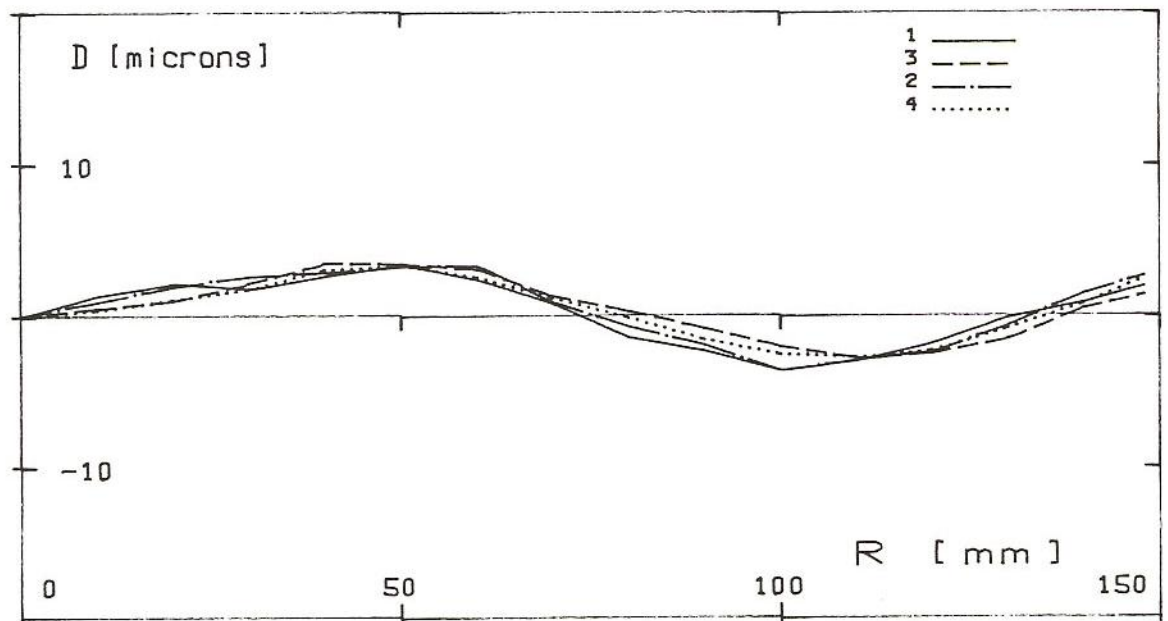
AS SEEN ON FOCAL PLANE FRAME

ML

APERTURE : F / 4.0
 FILTER ON GONIOMETER : 450 NM
 FILTER ON CAMERA : --
 P.D. (900 m) : 214.88 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS

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