

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC20

LENS TYPE : 30/4 NATA-F

LENS NO. : 17024

CALIBRATION DATE : 19.11.86

WILD HEERBRUGG LTD



CAMERA: RC20 LENS: 30/4 NATA-F NO.: 17024 CALIBRATION DATE: 19.11.88

APERTURE : F / 4.0
FILTER ON GONIOMETER : VIS (400 - 700 NM)
FILTER ON CAMERA : --
PRINCIPAL DISTANCE FOR FOCUSSING DISTANCE 850 M : 303.75 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	0.5	0.4	1.0	-0.2	0.4
20	1.5	0.2	1.3	0.2	0.8
30	1.2	1.4	2.0	0.0	1.1
40	1.4	1.1	2.4	0.8	1.4
50	1.6	0.4	3.0	0.2	1.3
60	2.2	-0.9	2.8	-0.8	0.8
70	1.7	-0.4	2.6	-0.5	0.8
80	0.8	-0.6	1.5	-0.8	0.1
90	0.7	-1.4	0.7	-0.4	-0.1
100	-0.6	-1.5	1.9	-0.1	0.0
110	-1.0	-0.9	1.4	0.8	0.0
120	-2.6	-0.5	1.3	1.6	0.0
130	-1.2	-1.0	0.4	1.9	0.0
140	-2.7	-1.8	0.0	2.0	-0.6
148	-4.4	-3.8	-1.0	0.7	-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 HC110 PREPARATION 2 SOLUTION C

ANGLE:	0	5	10	15	20	25
(DEGREES)						
RAD.	67	75	59	46	56	48
TANG.	67	74	51	44	53	55

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 53

CAMERA: RC20 LENS: 30/4 NATA-F NO.: 17024 CALIBRATION DATE: 19.11.88

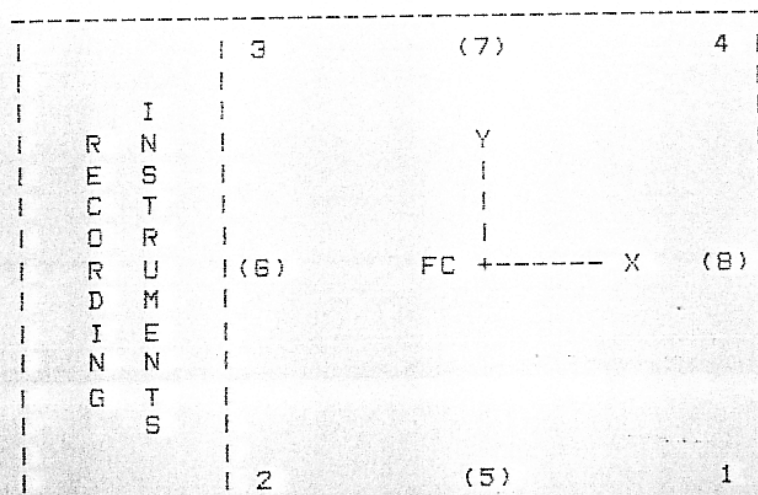
PRINCIPAL POINT OF AUTO-COLLIMATION (PPA) AND
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	-0.008	-0.008
S	-0.010	-0.001

FIDUCIAL MARKS, REFERRED TO FC

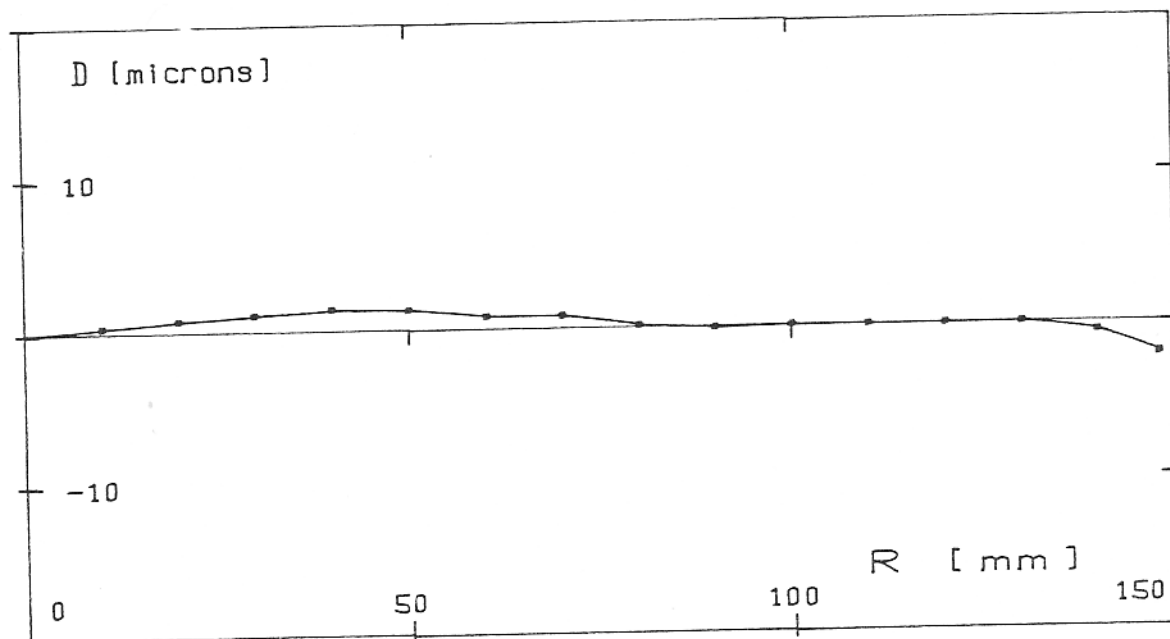
	X (MM)	Y (MM)
1	105.991	-105.991
2	-106.000	-105.999
3	-106.000	106.000
4	105.991	105.991



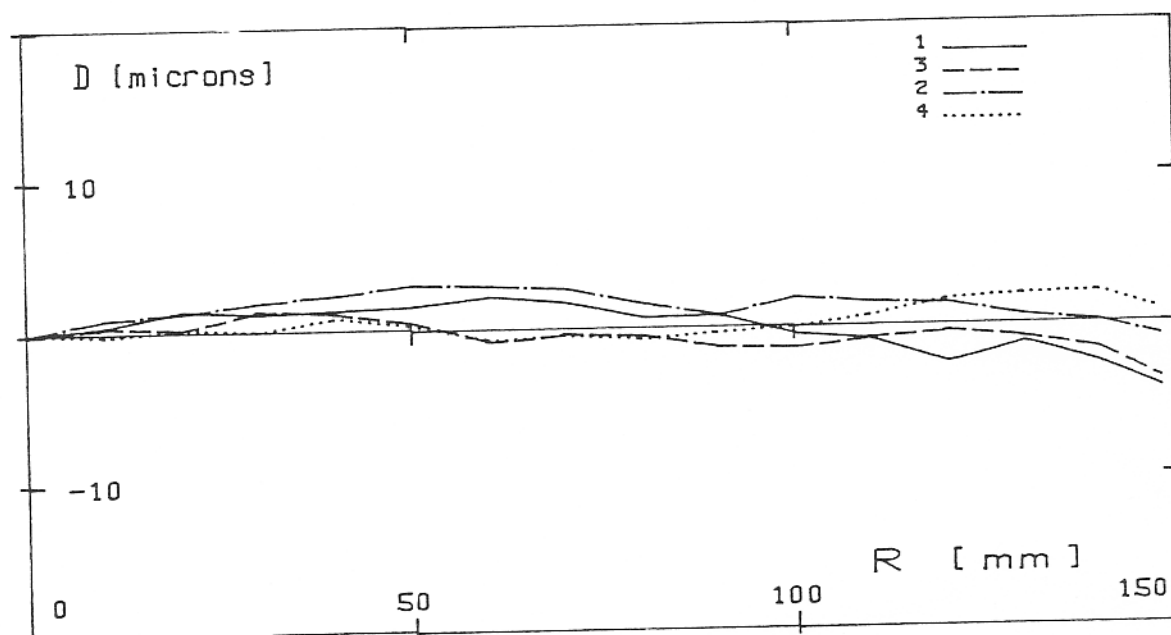
AS SEEN ON FOCAL PLANE FRAME

RC20 30/4 NATA-F NO. 17024 19.11.86

APERTURE : F / 4.0
FILTER ON GONIOMETER : UIS (400 - 700 NM)
FILTER ON CAMERA : --
P.D. (850 m) : 303.75 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS
REFERRED TO PPS