

# CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC10

LENS TYPE : 15 UAG II

LENS NO. : 3039

CALIBRATION DATE : 16.02.84

WILD HEERBRUGG LTD



## CAMERA CALIBRATION

CAMERA: RC10 LENS: 15 UAG II NO.: 3039 CALIBRATION DATE: 16.02.84

APERTURE : F / 4.0  
 FILTER ON GONIOMETER : 450 NM  
 FILTER ON CAMERA : --  
 CALIBRATED FOCAL LENGTH : 153.24 MM

## RADIAL DISTORTION (MICROMETERS)

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 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	-0.4	-1.4	-0.7	-1.3	-0.9
20	-1.1	-2.9	-1.3	-2.6	-1.9
30	-2.3	-3.2	-2.2	-3.1	-2.7
40	-2.3	-3.5	-2.1	-3.3	-2.8
50	-1.9	-3.7	-1.9	-3.5	-2.7
60	-2.0	-2.1	-1.2	-2.2	-1.8
70	-1.2	-0.2	-1.2	0.0	-0.6
80	-0.3	1.9	0.0	1.8	0.8
90	1.4	3.0	1.0	3.0	2.1
100	1.5	2.9	1.8	2.9	2.2
110	0.7	1.5	0.7	2.3	1.3
120	-0.4	-0.2	-1.0	0.5	-0.2
130	-1.1	-1.7	-0.8	-0.9	-1.1
140	0.4	-0.7	1.6	-1.0	0.0
148	0.9	-0.6	1.9	0.2	0.6

## 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: (DEGREES)	0	5	10	15	20	25	30	35	40	45
RAD.	75	75	117	51	35	34	46	69	36	15
TANG.	75	74	73	49	53	62	63	71	28	21

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

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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	0.015	0.003
S	0.016	0.007

FIDUCIAL MARKS, REFERRED TO FC

	X (MM)	Y (MM)
1	105.996	-105.997
2	-105.998	-105.999
3	-105.990	105.991
4	106.001	106.002

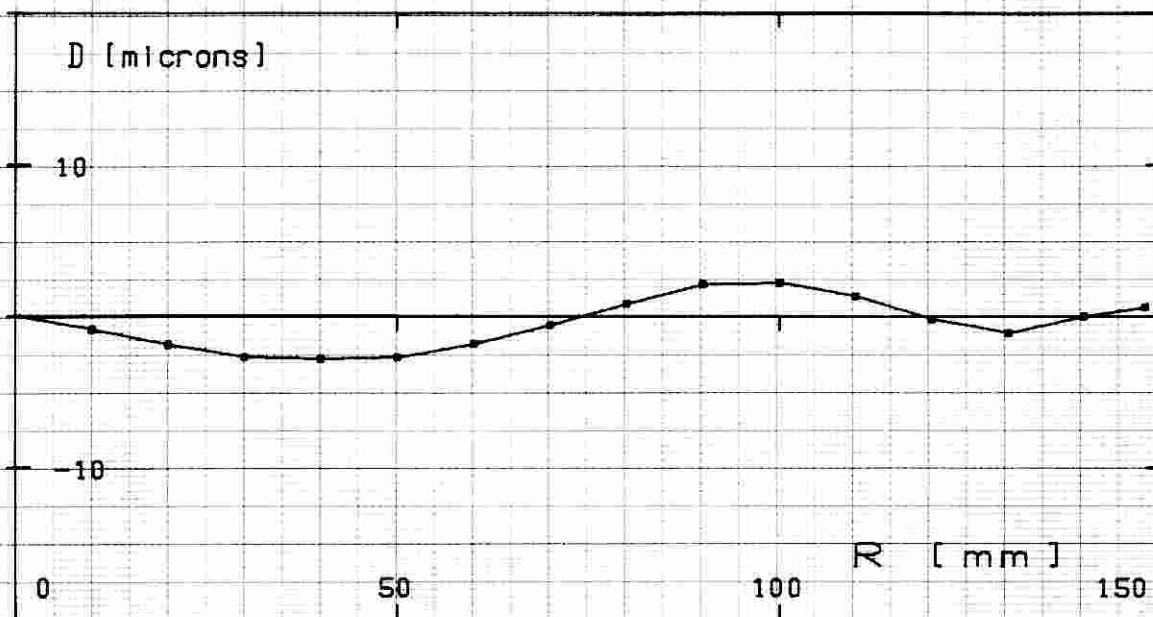
		3	(7)	4
	I			
	R N		Y	
	E S		I	
	C T		I	
	D R		I	
	R U	(6)	FC +----- X	(8)
	D M			
	I E			
	N N			
	G T			
	S			
		2	(5)	1

AS SEEN ON FOCAL PLANE FRAME

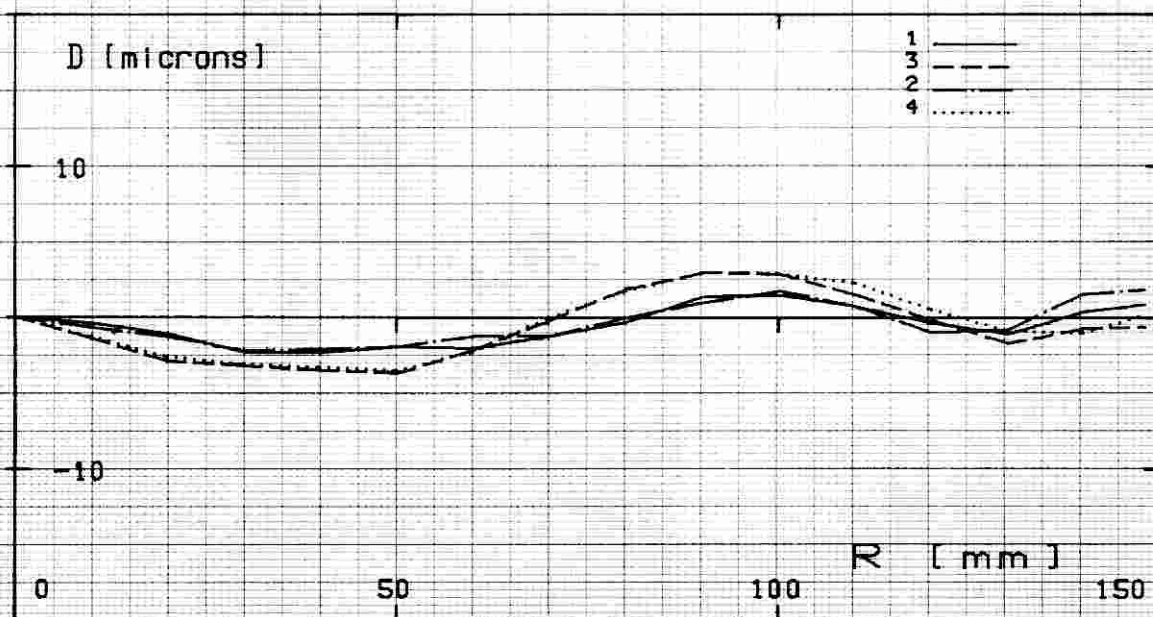
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 FILTER ON CAMERA : --  
 C.F.L. : 153.24 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS  
 REFERRED TO PPS

SIG.