

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC30
LENS TYPE : 15/4 UAG-S
LENS NO. : 13242

Calibration date. 03.04.2001

SwissOptic AG, Heerbrugg

 **swissoptic**
SwissOptic AG
Heinrich-Wild-Strasse
CH 9435 Heerbrugg
Schweiz

FO 012
[Signature]

Aperture: 4.0
 Filter on goniometer: VIS (400 - 700 NM)
 Filter on camera: -
 C.F.L. : 152.822 mm

Radial distortion (micrometers) referred to principal point of symmetry (PPS)
 (Positive values denote image displacement away from center)

Radius mm	Half - Sides				Mean
	1	3	2	4	
10	-0.2	-0.7	-0.5	-0.5	-0.4
20	-0.8	-1.2	-0.6	-0.7	-0.8
30	-1.4	-1.4	-0.8	-1.4	-1.2
40	-1.5	-1.8	-1.2	-1.6	-1.5
50	-1.5	-1.1	-1.1	-1.5	-1.3
60	-1.9	-0.9	-0.7	-1.7	-1.3
70	-0.9	-0.8	-0.5	-1.1	-0.8
80	-1.0	0.2	-0.5	-0.8	-0.5
90	0.3	0.5	-0.2	-0.5	0.0
100	0.7	1.1	0.9	0.4	0.7
110	1.1	1.2	1.6	1.1	1.2
120	1.8	1.1	1.2	0.7	1.2
130	1.6	1.1	1.4	1.0	1.2
140	0.4	0.7	-0.1	0.6	0.4
148	-0.8	-1.2	-1.8	-0.4	-1.0

Photographic resolution (line pairs per millimeter)

International 3-line test-chart, contrast (log) : 2.0

Aperture: 4.0
 Filter: 450 NM
 Film: KODAK PANATOMIC X 2412
 Developer: KODAK HC110

Angle (deg)	0	5	10	15	20	25	30	35	40	45
Radial:	117	104	115	101	98	119	128	86	80	66
Tangential:	117	116	90	87	103	96	111	99	87	52

AWAR (Area weighted average resolution) in lp/mm: 99

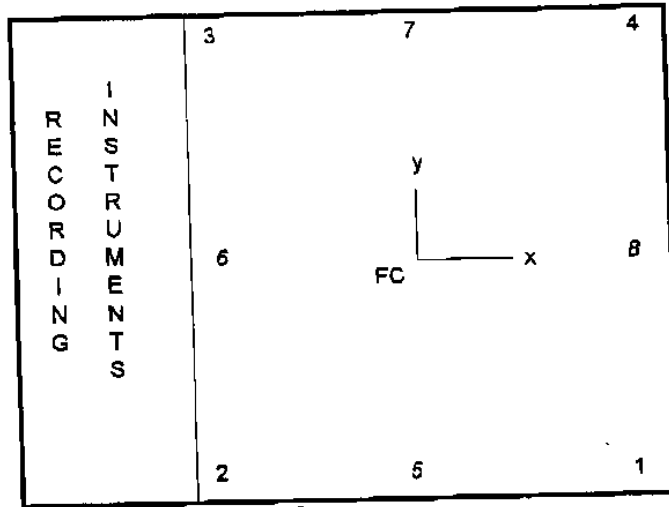
FO 812
Handwritten signature

Principal point of autocollimation (PPA) and principal point of symmetry (PPS) referred to central cross (FC), see diagram

	x (mm)	y (mm)
PPA	-0.004	-0.005
PPS	-0.003	0.002

Fiducial marks, referred to central cross (FC)

	x (mm)	y (mm)		x (mm)	y (mm)
1	106.001	-105.998	5	-0.004	-111.997
2	-106.004	-106.003	6	-112.004	-0.002
3	-106.003	106.001	7	-0.001	111.995
4	106.002	106.001	8	112.003	0.000



as seen on focal plane frame

FOOT *hco*

RC30

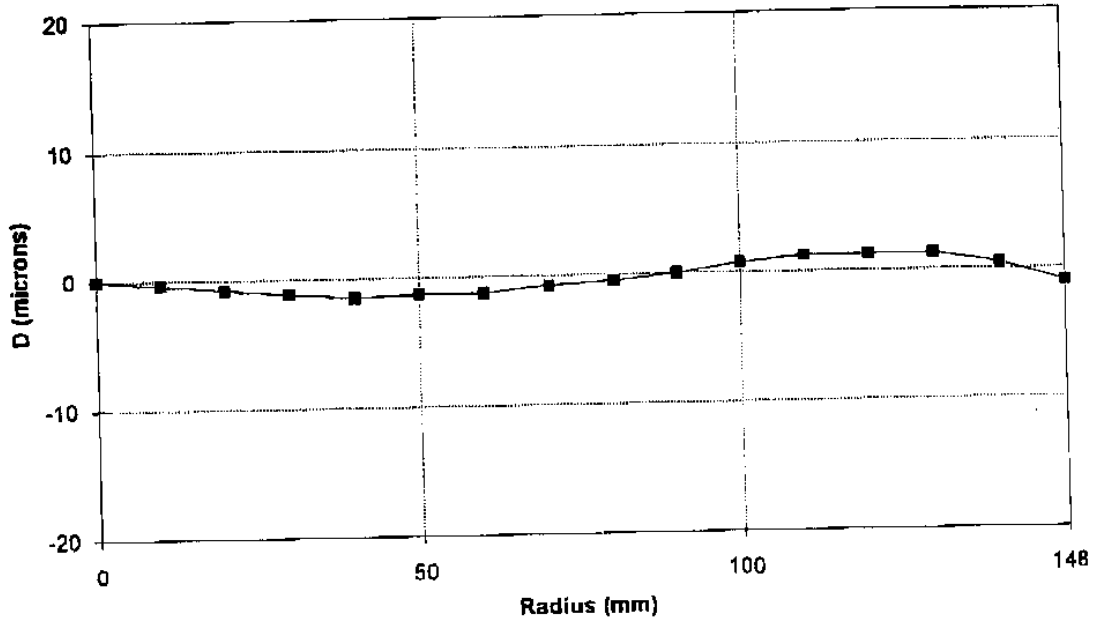
15/4 UAG-S

No. 13242

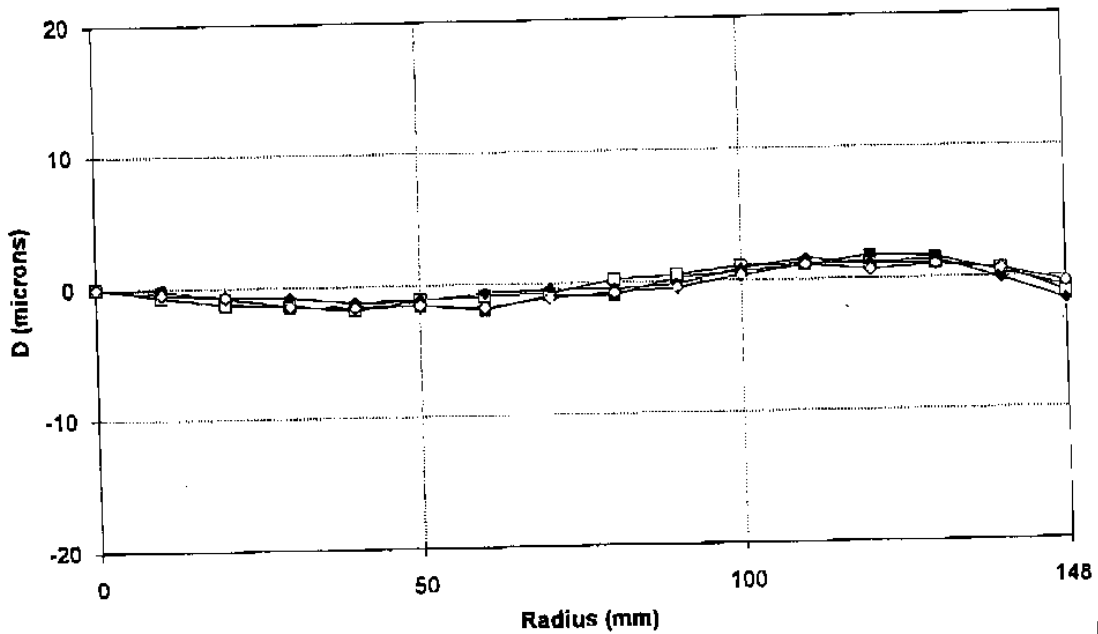
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C.F.L.: 152.822 mm

Mean radial distortion



Radial distortion for semi-diagonals referred to PPS



—■— 1 —□— 3 —●— 2 —○— 4

FG 013