

CALIBRATION NO: AF/15-4-UAG-S-13260 / 2

DATE: 15.12.03

Simmons Aerofilms Ltd  
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## CAMERA CALIBRATION CERTIFICATE

LEICA LENS CONE

No. 15-4-UAG-S-13260

Type: UNIVERSAL AVIOGON (RC30)

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CALIBRATION No. AF/15-4-UAG-S-13260 / 2      DATE OF CALIBRATION: 15.12.03

LENS TYPE : UNIVERSAL AVIOGON-S

Serial No : 15-4-UAG-S-13260

FILTER TYPE : None Fitted

Serial No : -

ORIGIN OF MEASUREMENTS o: The point of Symmetry

SIGN CONVENTION : Distortion is positive if away from origin

CALIBRATED AT A TEMPERATURE OF 20°C

BACK OF CAMERA

CALIBRATION PERFORMED BY : I PARKINSON

MEASUREMENTS

CALIBRATED PRINCIPAL DISTANCE : 153.278 mm

COORDINATES OF POINT OF SYMMETRY

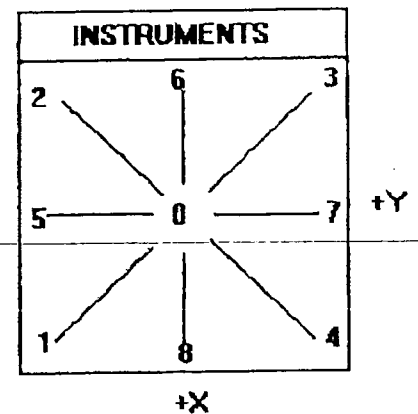
x = -0.007

y = 0.006

COORDINATES OF PRINCIPAL POINT OF AUTOCOLLIMATION

x = -0.006

y = -0.005



RADIAL DISTORTION IN MILLIMETRES :

Radius (mm)	20	40	60	80	100	120	140
Semi diagonal (1)	0.001	-0.001	0.000	0.001	-0.001	0.003	-0.001
Semi diagonal (2)	0.002	0.000	0.001	0.002	0.000	-0.002	-0.003
Semi diagonal (3)	0.000	0.003	0.002	0.002	0.000	-0.002	-0.004
Semi diagonal (4)	-0.001	-0.001	0.000	-0.001	0.000	0.002	-0.003
Mean	0.000	0.000	0.001	0.001	0.000	0.001	-0.003

BEFORE CALIBRATION THE OPTICAL UNIT WAS CHECKED AND FOUND TO BE IN A SERVICEABLE CONDITION.

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LENS : UNIVERSAL AVIOGON -S NO : 13260

DATE : 15.12.03

CALIBRATED FOCAL LENGTH : 153.278 mm

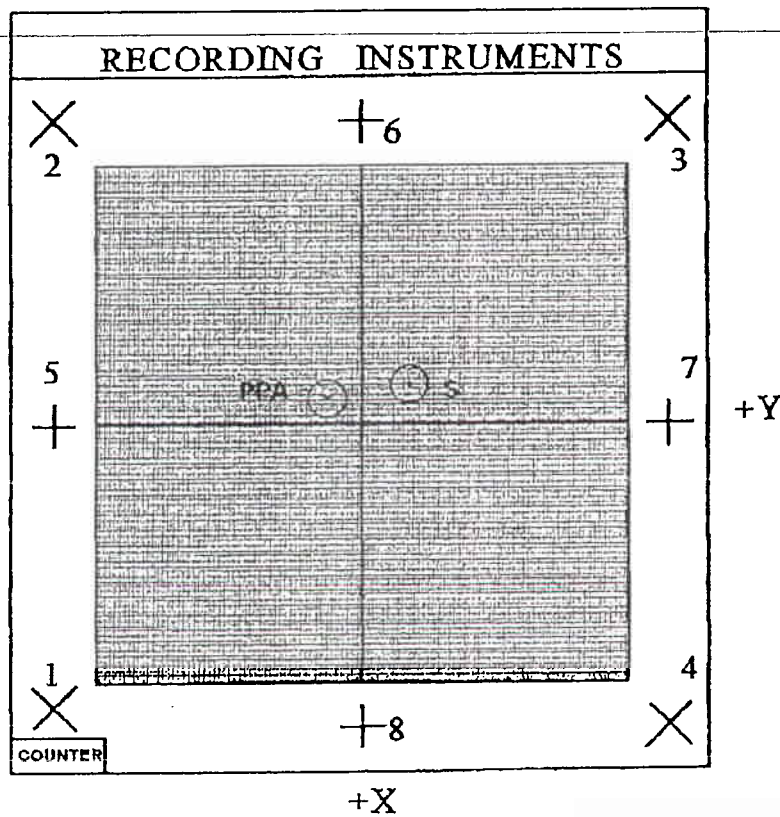
FIDUCIAL COORDS

POINT	X MM	Y MM
FC	0.000	0.000
S	-0.007	0.006
PPA	-0.006	-0.005

FIDUCIAL MARKS REFERRED TO F.C.  
ARE ACROSS THE CORNER FIDUCIALS

PPA : PRINCIPAL POINT OF AUTOCOLLIMATION

S : POINT OF BEST SYMMETRY



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# FIDUCIAL MEASUREMENTS FOR LEICA RC30

## EIGHT FIDUCIALS

CAMERA 15-4 UAG-S-13260

DATE 15.12.03

### FIDUCIAL COORDINATES (SIDES)

X5= -0.004	X6= -111.995	X7= -0.002	X8= 111.999
Y5= -111.992	Y6= -0.007	Y7= 111.998	Y8= 0.001

DISTANCES 5-7= 223.980 6-8= 223.994

### FIDUCIAL COORDINATES (CORNERS)

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X1= 105.991	X2= -105.997	X3= -105.987	X4= 105.995
Y1= -105.993	Y2= -105.997	Y3= 105.988	Y4= 105.993

DISTANCES (DIAG)	1-3= 299.821	2-4= 299.818
DISTANCES (SIDE)	1-2= 211.987	3-4= 211.982
	2-3= 211.986	4-1= 211.985

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NO: AF/ 15-4-UAG-S-13260 / 2

DATE : 15.12.03

RESOLUTION

LENS TYPE: UNIVERSAL AVIOGON S SERIAL NO: 15-4-UAG-S-13260

FOCAL LENGTH: 153.278mm

APERTURE: f4

FILM TYPE: KODAK PANATOMIC X2412

HIGH CONTRAST TEST CHART

AWAR in lp/mm :98

DEGREES OFF AXIS	RESOLUTION	
	Radial	Tangential
0	131	131
5	131	116
10	115	101
15	90	87
20	110	92
25	119	121
30	128	111
35	108	62
40	80	77
45	83	59
50		
55		
60		

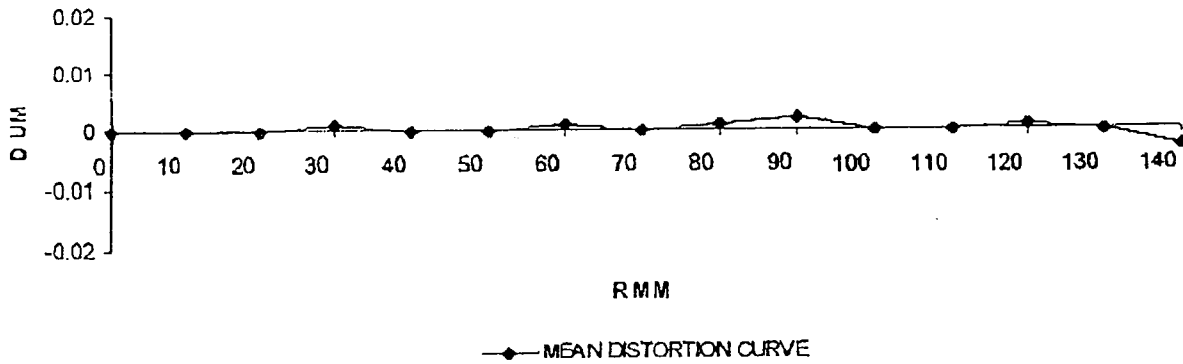
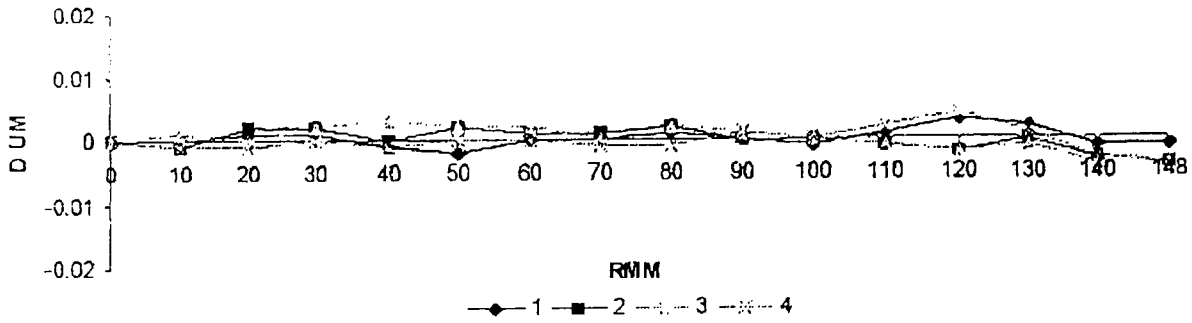
Measured by:LEICA 18.01.00

Approved by:

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ORIGIN=POINT OF SYMMETRY

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