

CALIBRATION NO: AF/15-4-UAG-S-13215 / 3

DATE : 24.10.03

SIMMONS AEROFILMS LTD
32-34 STATION CLOSE
POTTERS BAR
HERTFORDSHIRE
EN6 1TL

TEL : 01707 648390
FAX : 01707 648399

CAMERA CALIBRATION CERTIFICATE

LEICA LENS CONE

No. 15/4 UAGS-13215

Type: UNIVERSAL AVIOGON (RC30)

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CALIBRATION No. AF/15-4-UAG-S-13215 / 3 DATE OF CALIBRATION: 24.10.03

LENS TYPE : UNIVERSAL AVIOGON-S

Serial No : 15-4-UAG-S-13215

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 : 152.85 mm

COORDINATES OF POINT OF SYMMETRY

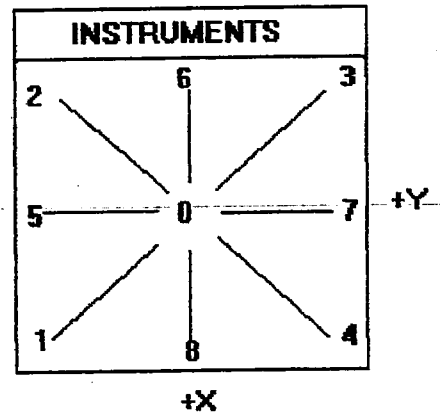
x = 0.012

y = -0.008

COORDINATES OF PRINCIPAL POINT OF AUTOCOLLIMATION

x = -0.005

y = 0.007



RADIAL DISTORTION IN MILLIMETRES :

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

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

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CALIBRATED FOCAL LENGTH : 152.85 mm

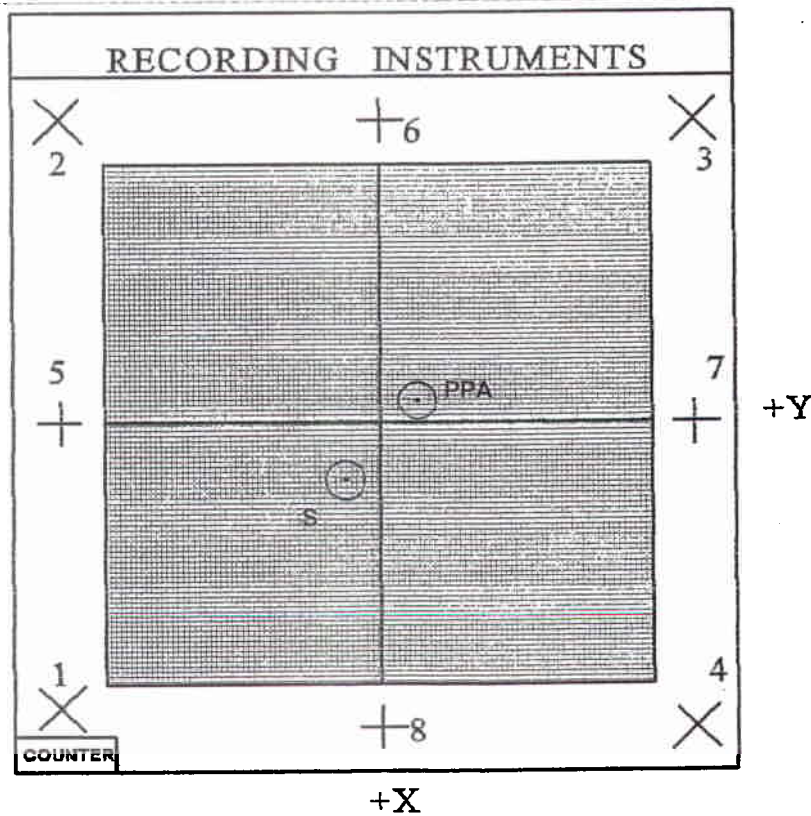
FIDUCIAL COORDS

POINT	X MM	Y MM
FC	0.000	0.000
S	0.012	-0.008
PPA	-0.005	0.007

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

PPA : PRINCIPAL POINT OF AUTOCOLLIMATION

S : POINT OF BEST SYMMETY



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FIDUCIAL MEASUREMENTS FOR LEICA RC30

EIGHT FIDUCIALS

CAMERA 15-4 UAG-S-13215

DATE 24.10.03

FIDUCIAL COORDINATES (SIDES)

X5= 0.000	X6= -110.004	X7= -0.002	X8= 110.006
Y5= -109.987	Y6= -0.002	Y7 = 109.997	Y8= -0.002

DISTANCES 5-7= 219.984 6-8= 220.010

FIDUCIAL COORDINATES (CORNERS)

X1= 106.000	X2= -106.002	X3= -106.001	X4= 106.003
Y1= -106.006	Y2= -105.996	Y3= 105.992	Y4= 106.004

DISTANCES (DIAG)	1-3= 299.813	2-4= 299.816
DISTANCES (SIDE)	1-2= 212.002	3-4= 212.004
	2-3= 211.989	4-1= 212.010

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NO: AF/ 15-4-UAG-S-13215 / 3

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RESOLUTION

LENS TYPE: UNIVERSAL AVIOGON S SERIAL NO: 15-4-UAG-S-13215

FOCAL LENGTH: 152.85mm

APERTURE: f4

FILM TYPE: KODAK PANATOMIC X2412

HIGH CONTRAST TEST CHART

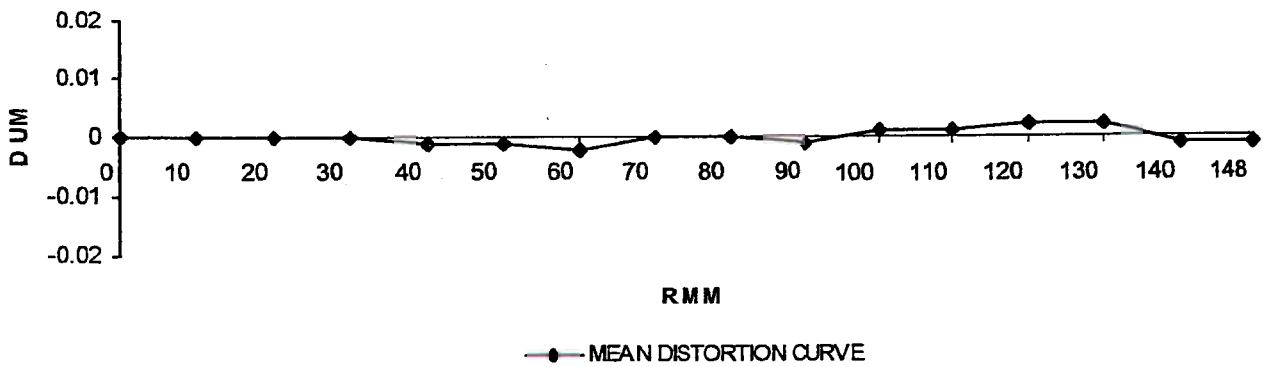
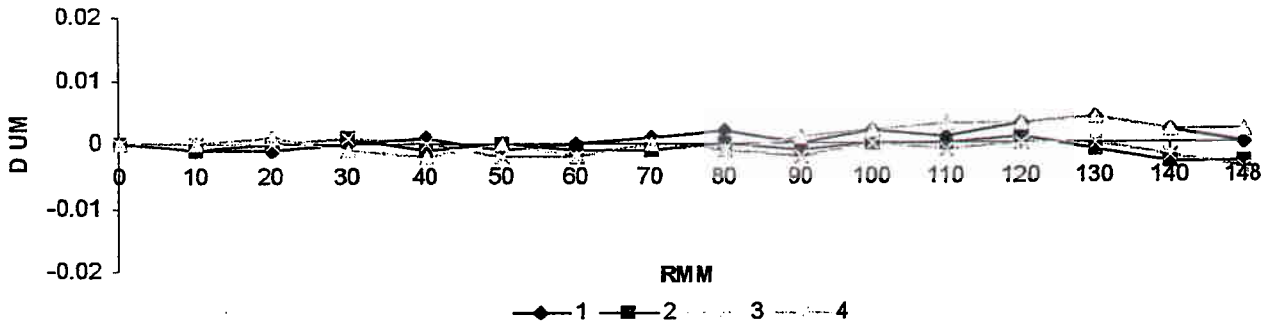
DEGREES OFF AXIS	RESOLUTION	
	Radial	Tangential
0	104	117
5	117	116
10	129	114
15	101	87
20	78	103
25	95	76
30	101	70
35	121	79
40	101	69
45	83	59
50		
55		
60		

Measured by:LEICA 30.09.02

Approved by:

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ORIGIN=POINT OF SYMMETRY

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