

DECEMBER 2004



**AEROFILMS CERTIFICATE
OF CAMERA CALIBRATION**

WILD 15 UAG II 3103

CALIBRATION NO: AF / 15 UAG II 3103 / 7

DATE : 06.12.04

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

TEL : 01707 648390
FAX : 01707 648399

CAMERA CALIBRATION CERTIFICATE

WILD LENS CONE

No. 15 UAGII 3103

Type: UNIVERSAL AVIOGON II

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CALIBRATION No. AF/ 15 UAGII 3103 / 7

DATE OF CALIBRATION: 06.12.04

LENS TYPE : UNIVERSAL AVIOGON II

Serial No : 15 UAGII 3103

FILTER TYPE : None Fitted

Serial No : -

ORIGIN OF MEASUREMENTS 0: 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

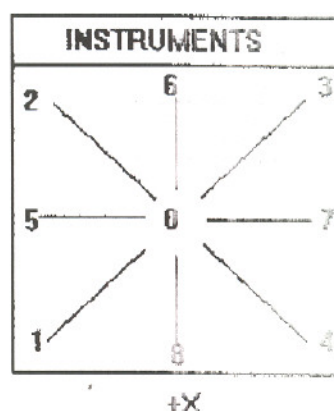
CALIBRATED PRINCIPAL DISTANCE : 153.438 mm

COORDINATES OF POINT OF SYMMETRY

x = 0.005 y = -0.004

COORDINATES OF PRINCIPAL POINT OF AUTOCOLLIMATION

x = -0.006 y = 0.003



RADIAL DISTORTION IN MILLIMETRES :

Radius (mm)	20	40	60	80	100	120	140
Semi diagonal (1)	-0.003	0.000	0.003	0.004	0.006	-0.001	-0.002
Semi diagonal (2)	-0.002	0.002	0.001	0.006	0.002	-0.003	-0.005
Semi diagonal (3)	-0.004	-0.004	0.000	0.004	0.004	0.002	0.000
Semi diagonal (4)	-0.004	-0.004	-0.001	0.002	0.005	0.001	0.001
Mean	-0.003	-0.002	0.001	0.004	0.004	-0.001	-0.002

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

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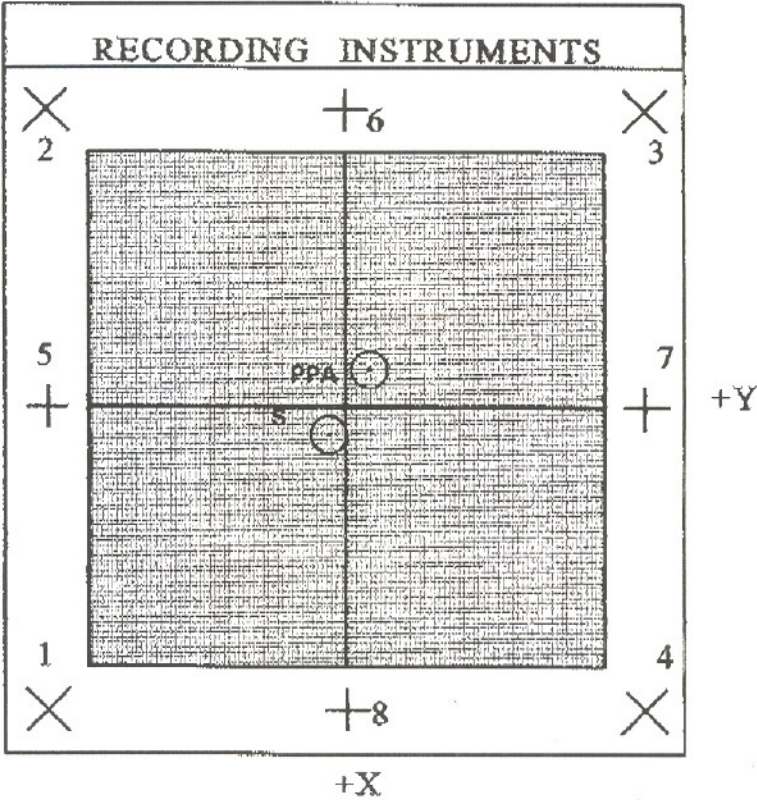
CALIBRATED FOCAL LENGTH: 153.438 mm

FIDUCIAL COORDS

POINT	X MM	Y MM
FC	0.000	0.000
S	0.005	-0.004
PPA	-0.006	0.003

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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[Signature]
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FIDUCIAL MEASUREMENTS FOR LEICA RC10

FOUR FIDUCIALS

CAMERA : 15 UAGII 3103

DATE : 06.12.04

FIDUCIAL COORDINATES (CORNERS)

X1 = 106.004	X2 = -106.003	X3 = -106.001	X4 = 105.999
Y1 = -106.007	Y2 = -105.992	Y3 = 105.993	Y4 = 106.006

DISTANCES (DIAG)	1 - 3 = 299.818	2 - 4 = 299.813
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DISTANCES (SIDE)	1 - 2 = 212.007	3 - 4 = 212.000
	2 - 3 = 211.985	4 - 1 = 212.013

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CALIBRATION NO: AF/ 15 UAGII 3103 / 7
RESOLUTION

DATE : 06.12.04

LENS TYPE: UNIVERSAL AVIOGON II

SERIAL NO: 15 UAGII 3103

FOCAL LENGTH: 153.438mm

APERTURE: F4

FILM TYPE: AGFAPAN 25 PROFESSIONAL

HIGH CONTRAST TEST CHART

DEGREES OFF AXIS	RESOLUTION	
	Radial	Tangential
0	75	75
5	84	74
10	104	58
15	58	56
20	40	47
25	43	49
30	52	63
35	77	63
40	32	31
45	13	19
50		
55		
60		

Measured by: WILD 05.05.85

Approved by:

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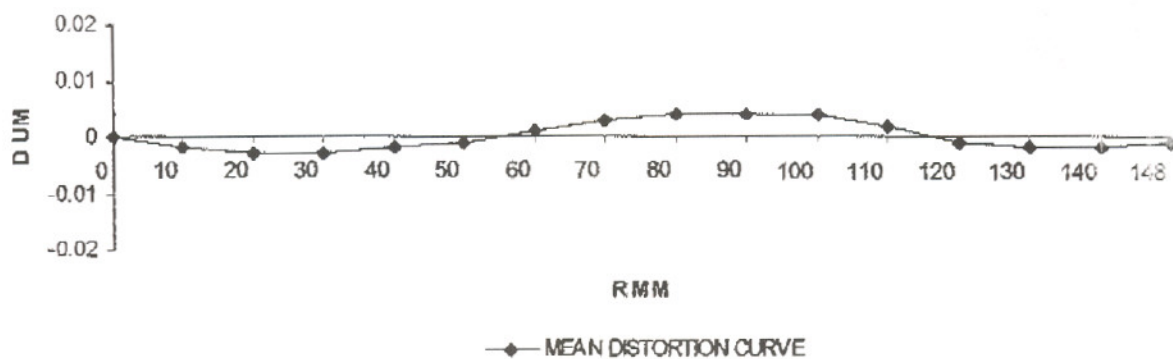
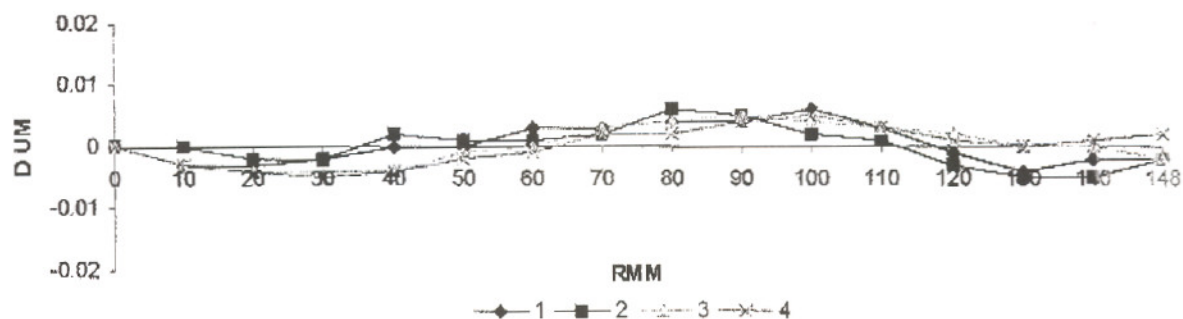
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CALIBRATION NO : AF /15 UAGII 3103 / 7

DATE : 06.12.04

FILTER ON CAMERA : None Fitted

APERTURE : F4



ORIGIN=POINT OF SYMMETRY

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