



3

CALIBRATION NO: AF/ ZEISS LMK 244664A / 4

DATE : 03.03.00

AEROFLMS LIMITED
GATE STUDIOS
STATION ROAD
BOREHAMWOOD
HERTS WD6 1EJ

TEL : 0181-207-0666
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CAMERA CALIBRATION CERTIFICATE

ZEISS LENS CONE

NO : LMK 244664A

TYPE : ZEISS JENA LMK

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CALIBRATION No: AF/ZEISS LMK 244664A / 4

DATE : 03.03.00

LENS TYPE : ZEISS LMK

Serial No : 244664A

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

CALIBRATION PERFORMED BY : I PARKINSON

MEASUREMENTS

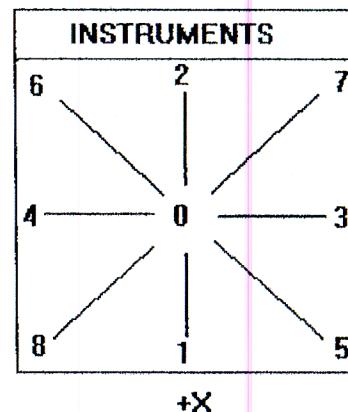
CALIBRATED PRINCIPAL DISTANCE : 152.235 mm

COORDINATES OF POINT OF SYMMETRY

x = -0.008 y = 0.002

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 (5)	0.000	0.002	0.000	0.000	0.002	0.000	-0.003
Semi diagonal (7)	0.000	0.000	-0.002	0.002	0.005	0.005	0.004
Semi diagonal (6)	0.004	0.003	0.001	-0.001	-0.002	-0.002	-0.004
Semi diagonal (8)	0.002	0.001	0.002	-0.001	0.001	0.007	0.002
Mean	0.002	0.001	0.000	0.000	0.002	0.002	0.000

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

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LENS : ZEISS LMK

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CALIBRATED FOCAL LENGTH : 152.235 mm

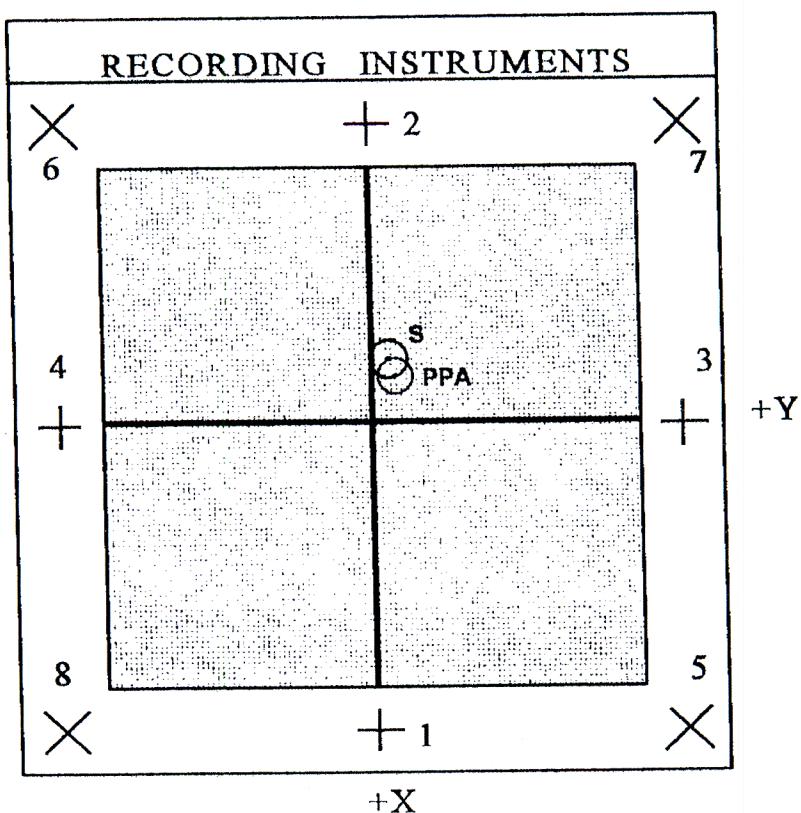
FIDUCIAL COORDS

POINT	X MM	Y MM
FC	0.000	0.000
S	-0.008	0.002
PPA	-0.006	0.003

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

PPA : PRINCIPAL POINT OF AUTOCOLLIMATION

S : POINT OF BEST SYMMETRY



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FIDUCIAL MEASUREMENTS FOR ZEISS LMK EIGHT FIDUCIALS

CAMERA : LMK 244664A

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FIDUCIAL COORDINATES (SIDES)

X1= 110.001	X2= -110.001	X3= 0.000	X4= 0.006
Y1= 0.002	Y2= 0.003	Y3= 109.999	Y4= -110.005

DISTANCES 1-2= 220.002 3-4= 220.004

FIDUCIALS COORDINATES (CORNERS)

X5= 109.996	X6= -110.001	X7= -110.003	X8= 110.001
Y5= 109.998	Y6= -110.004	Y7= 110.011	Y8= -110.004

DISTANCES (DIAG) 7-8= 311.141 5-6= 311.126

DISTANCES (SIDE) 7-5= 220.000 5-8= 220.002
 8-6= 220.002 6-7= 220.015

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CALIBRATION NO : AF/ZEISS LMK 244664A / 4

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RESOLUTION

LENS TYPE: ZEISS LMK

SERIAL NO: 244664A

FOCAL LENGTH: 152.235 mm

APERTURE: F5.6

FILM TYPE: ORWO -NP-15

HIGH CONTRAST TEST CHART

DEGREES OF AXIS	RESOLUTION	
	RADIAL	TANGENTIAL
0	106	106
8	103	102
16	95	85
24	100	84
32	108	87
40	82	60
48	66	34

MEASURED BY ZEISS 9.5.92

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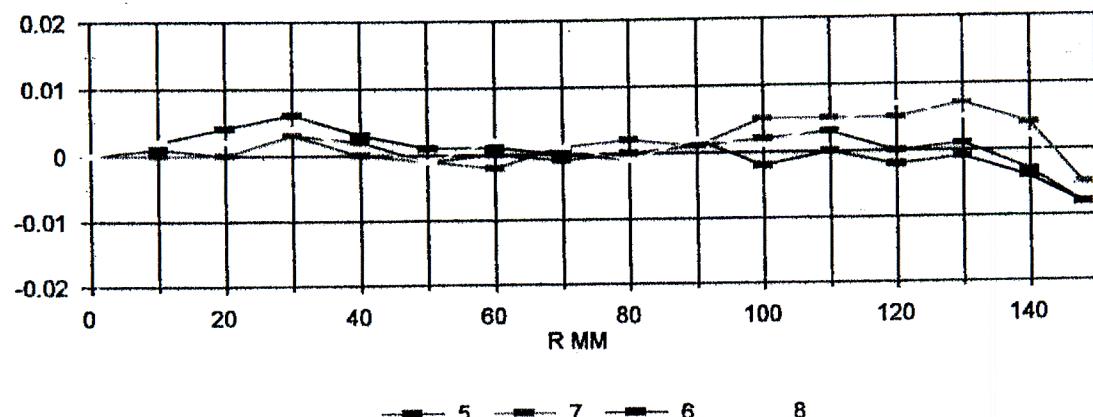
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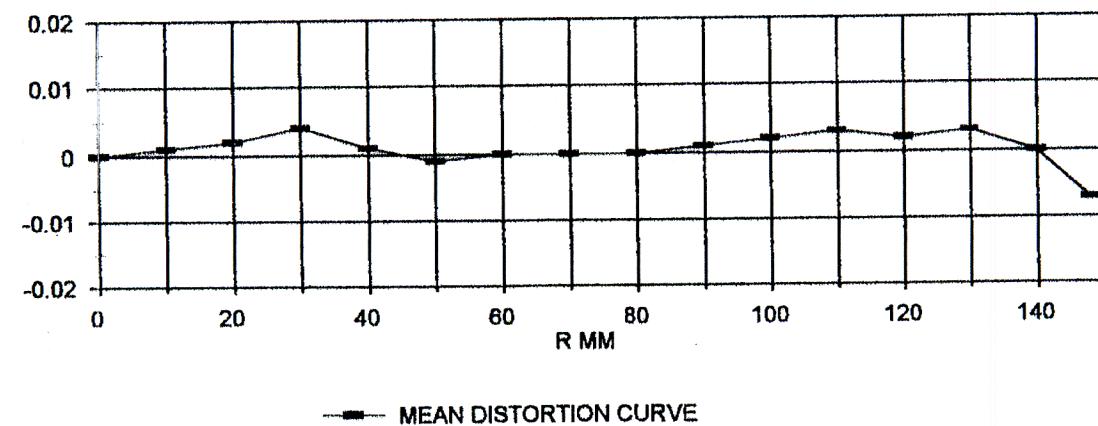
FILTER ON CAMERA : NONE FITTED

APERTURE : F5.6

DUM



DUM



— MEAN DISTORTION CURVE

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ORIGIN=POINT OF SYMMETRY

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A large, handwritten signature in black ink, appearing to read "Ian P.", is positioned above the company logo. Below the signature, the text "AEROFILM'S" is written in a bold, stylized font, with "LIMITED" in smaller capital letters underneath.