

**CALIBRATION NO: AF/ ZEISS LMK 265005A / 3**

**DATE : 11.12.98**

**AEROFILMS LIMITED  
GATE STUDIOS  
STATION ROAD  
BOREHAMWOOD  
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## **CAMERA CALIBRATION CERTIFICATE**

**ZEISS LENS CONE**

**NO : LMK 265005A**

**TYPE : ZEISS JENA LMK**

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PAGE 1 OF 6

CALIBRATION No: AF/ ZEISS LMK 265005A / 3

DATE : 11.12.98

LENS TYPE : ZEISS LMK

Serial No : 265005A

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 : D.T. PHILPOT

**MEASUREMENTS**

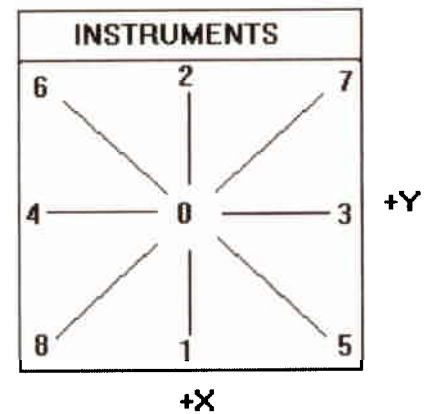
CALIBRATED PRINCIPAL DISTANCE : 152.208 mm

COORDINATES OF POINT OF SYMMETRY

x = -0.010                      y = -0.015

COORDINATES OF PRINCIPAL POINT OF AUTOCOLLIMATION

x = -0.011                      y = -0.005



**RADIAL DISTORTION IN MILLIMETRES :**

Radius (mm)	20	40	60	80	100	120	140
Semi diagonal (8)	0.000	0.000	-0.002	-0.002	0.002	0.003	0.003
Semi diagonal (6)	0.001	-0.001	-0.002	-0.001	0.004	0.005	0.005
Semi diagonal (7)	0.001	0.000	-0.001	-0.001	0.000	0.004	0.006
Semi diagonal (5)	0.000	-0.002	-0.001	-0.004	0.003	0.009	0.009
Mean	0.000	-0.001	-0.001	-0.002	0.002	0.005	0.006

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

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LENS : ZEISS LMK

NO : 265005A

DATE : 11.12.98

CALIBRATED FOCAL LENGTH : 152.208 mm

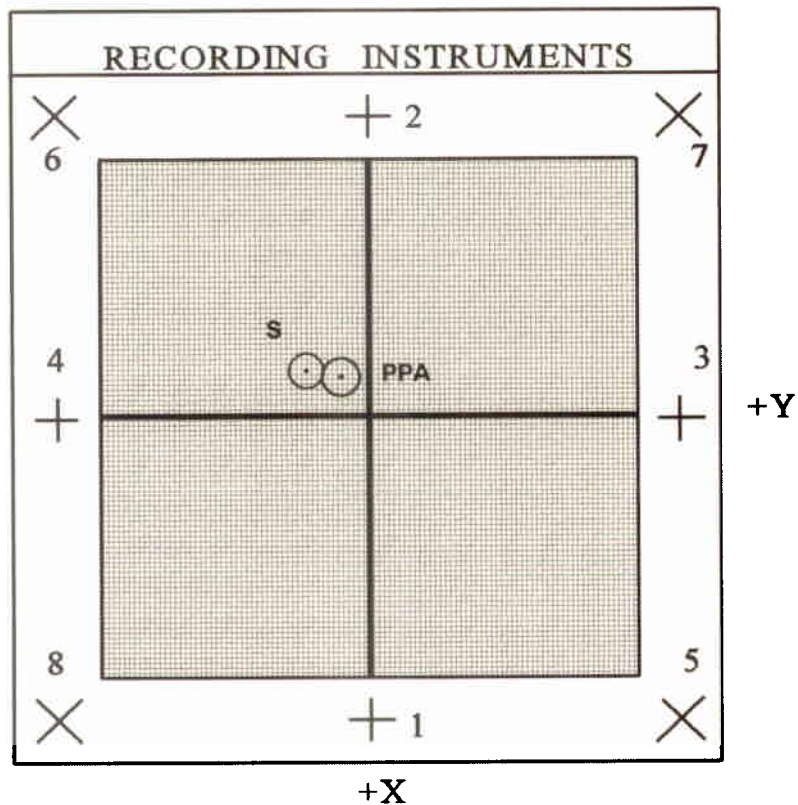
FIDUCIAL COORDS

POINT	X MM	Y MM
FC	0.000	0.000
S	-0.010	-0.015
PPA	-0.011	-0.005

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

PPA : PRINCIPAL POINT OF AUTOCOLLIMATION

S : POINT OF BEST SYMMETY



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**AEROFILMS**  
LIMITED

# FIDUCIAL MEASUREMENTS FOR ZEISS LMK EIGHT FIDUCIALS

CAMERA : LMK 265005A

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## FIDUCIAL COORDINATES (SIDES)

X1= 110.013	X2= -110.004	X3= 0.000	X4= -0.005
Y1= 0.003	Y2= 0.003	Y3= 109.990	Y4= -110.000

**DISTANCES**                      1-2= 220.016                                      3-4= 219.990

## FIDUCIALS COORDINATES (CORNERS)

X5= 109.997	X6= -110.002	X7= -110.004	X8= 110.005
Y5= 110.006	Y6= -109.993	Y7= 109.998	Y8= -110.007

<b>DISTANCES (DIAG)</b>	7-8= 311.137	5-6= 311.126
<b>DISTANCES (SIDE)</b>	7-5= 220.001	5-8= 220.013
	8-6= 220.008	6-7= 219.991

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**CALIBRATION NO : AF/ZEISS LMK 265005A / 3**

**DATE : 11.12.98**

**RESOLUTION**

**LENS TYPE: ZEISS LMK**

**SERIAL NO: 265005A**

**FOCAL LENGTH: 152.208 mm**

**APERTURE: F5.6**

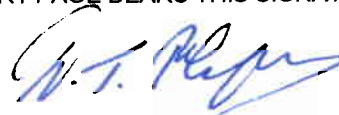
**FILM TYPE: ORWO -NP-15**

**HIGH CONTRAST TEST CHART**

DEGREES OF AXIS	RESOLUTION	
	RADIAL	TANGENTIAL
0	103	103
8	107	86
16	97	79
24	99	74
32	102	84
40	78	52
48	70	26

MEASURED BY ZEISS 21.3.95

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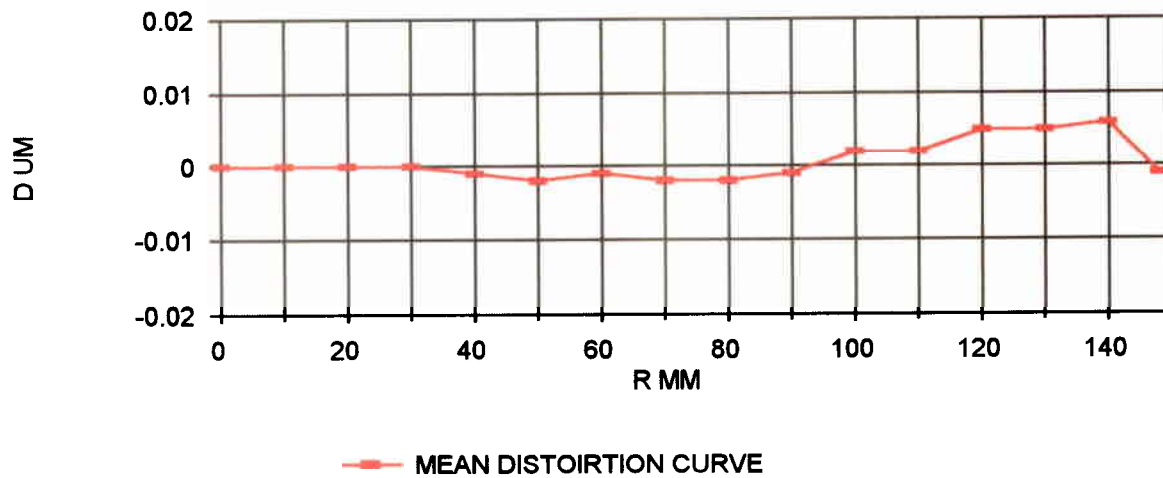
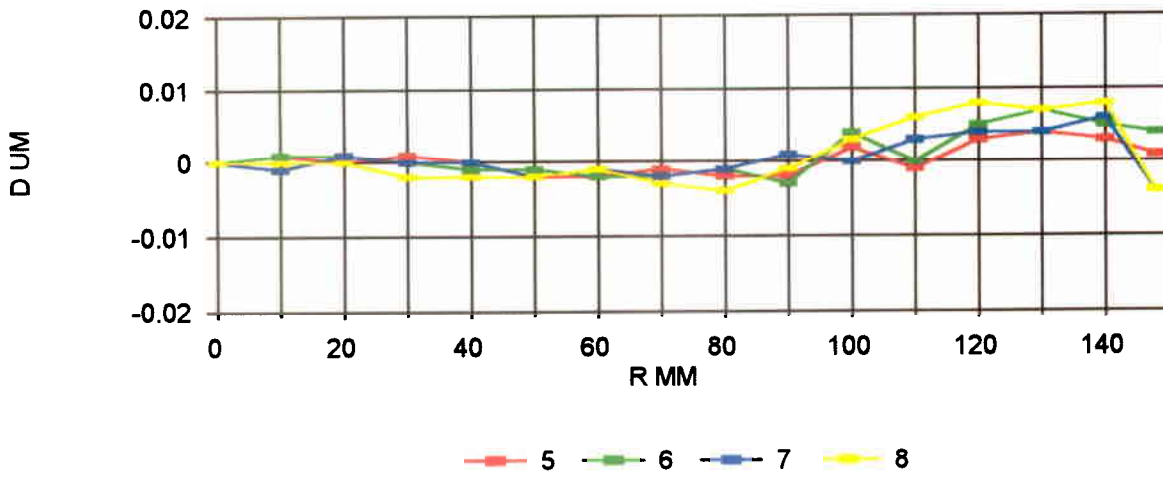


CALIBRATION No : AF/ZEISS LMK 265005A / 3

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FILTER ON CAMERA : NONE FITTED

APERTURE : F5.6



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ORIGIN=POINT OF SYMMETRY

PAGE 6 OF 6

