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CALIBRATION NO: AF/CARL ZEISS JENA LMK 265005A/2

DATE: 26.2.96

Aerofilms Limited

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CAMERA CALIBRATION CERTIFICATE

LMK LENS CONE

NO. LMK 265005A

TYPE: CARL ZEISS JENA LMK



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CALIBRATION No. AF/CARL ZEISS JENA LMK
265005A/2

DATE OF CALIBRATION 26.2.96

LENS TYPE : CARL ZEISS JENA LMK

Serial No. : 265005A

FILTER TYPE : -

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

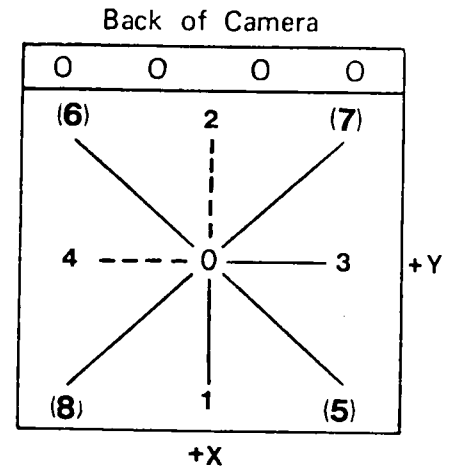
CALIBRATED PRINCIPAL DISTANCE : 152.208 mm

COORDINATES OF POINT OF SYMMETRY

x = -0.011 y = +0.000

COORDINATES OF PRINCIPAL POINT OF AUTOCOLLIMATION

x = -0.013 y = +0.017



DIAL DISTORTION IN MILLIMETRES :

Radius (mm)	20	40	60	80	100	120	140
Semi diagonal (5)	+0.000	-0.001	-0.001	-0.001	+0.001	+0.005	+0.002
Semi diagonal (6)	-0.002	-0.003	-0.002	+0.000	+0.001	+0.006	+0.006
Semi diagonal (7)	+0.001	-0.002	+0.000	-0.002	-0.003	+0.002	+0.006
Semi diagonal (8)	+0.000	-0.001	+0.000	-0.002	+0.001	+0.006	+0.007
Mean	+0.000	-0.002	-0.001	-0.001	+0.000	+0.004	+0.005

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

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CAMERA CALIBRATION



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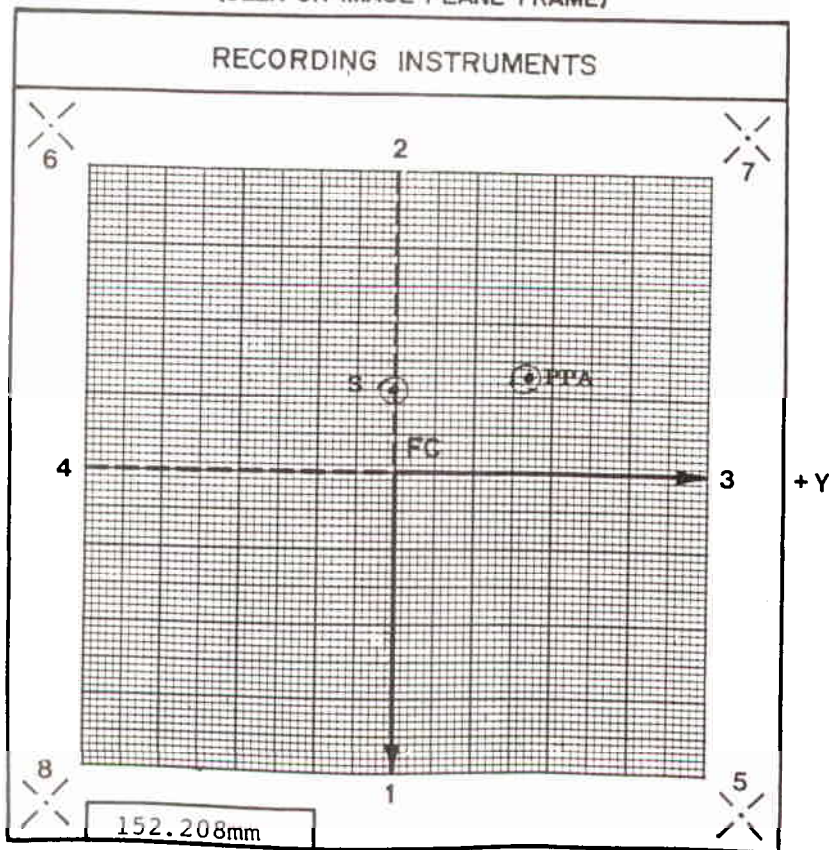
LENS : CARL ZEISS JENA NO.: 265005A
LMK

CALIBRATION DATE 26.2.96

POINT	FIDUCIAL COORDS	
	X MM	Y MM
FC	0.000	0.000
S	-0.011	+0.000
PPA	-0.013	+0.017

FIDUCIAL MARKS REFERED TO F.C.
ARE ACROSS THE CORNER FIDUCIALS
S : POINT OF BEST SYMMETRY
PPA : PRINCIPAL POINT OF AUTOCOLLIMATION

(SEEN ON IMAGE PLANE FRAME)



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CALIBRATION RESULTS FOR ZEISS LMK

CAMERA LMK 265005A

DATE 21 FEBRUARY 1996

CENTRE OF GRAVITY X= 109.983 Y= 109.982

FIDUCIAL COORDINATES (SIDES)

X1=	110.005	X2=	-109.99	X3=	-0.0055	X4=	-0.0115
Y1=	0.01288	Y2=	-0.0041	Y3=	109.99	Y4=	-109.99

DISTANCES 1-2= 219.997 3-4= 219.983

FIDUCIAL COORDINATES (CORNERS)

X5=	109.996	X6=	-110	X7=	-109.98	X8=	109.995
Y5=	110.003	Y6=	-110	Y7=	109.984	Y8=	-109.99

DISTANCES (DIAG) 7-8= 311.096 5-6= 311.126

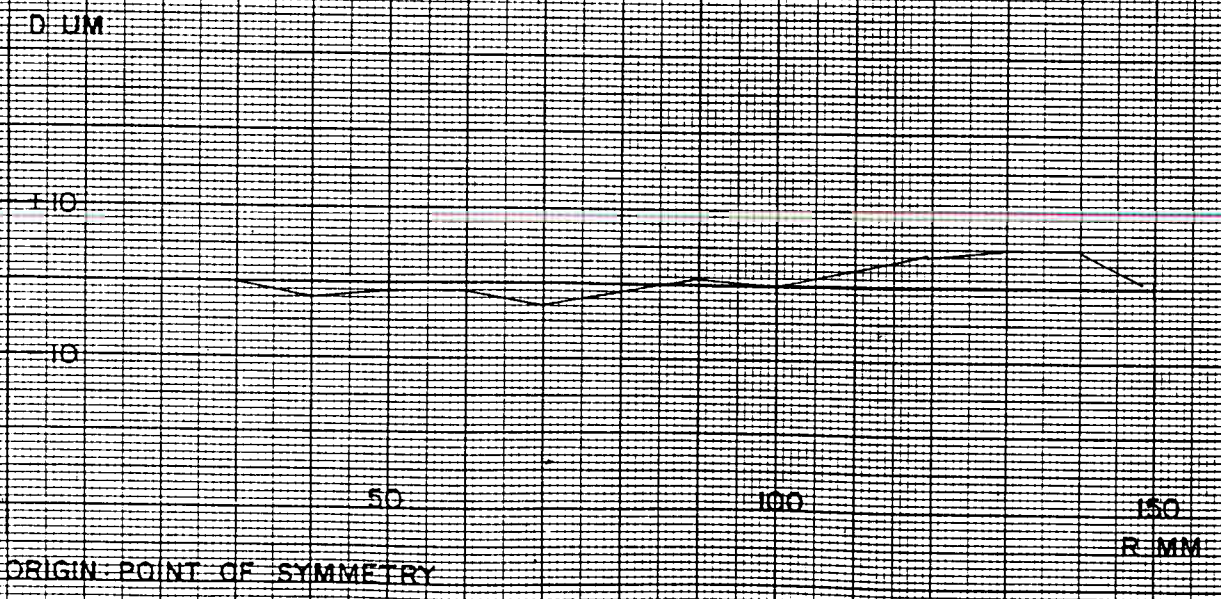
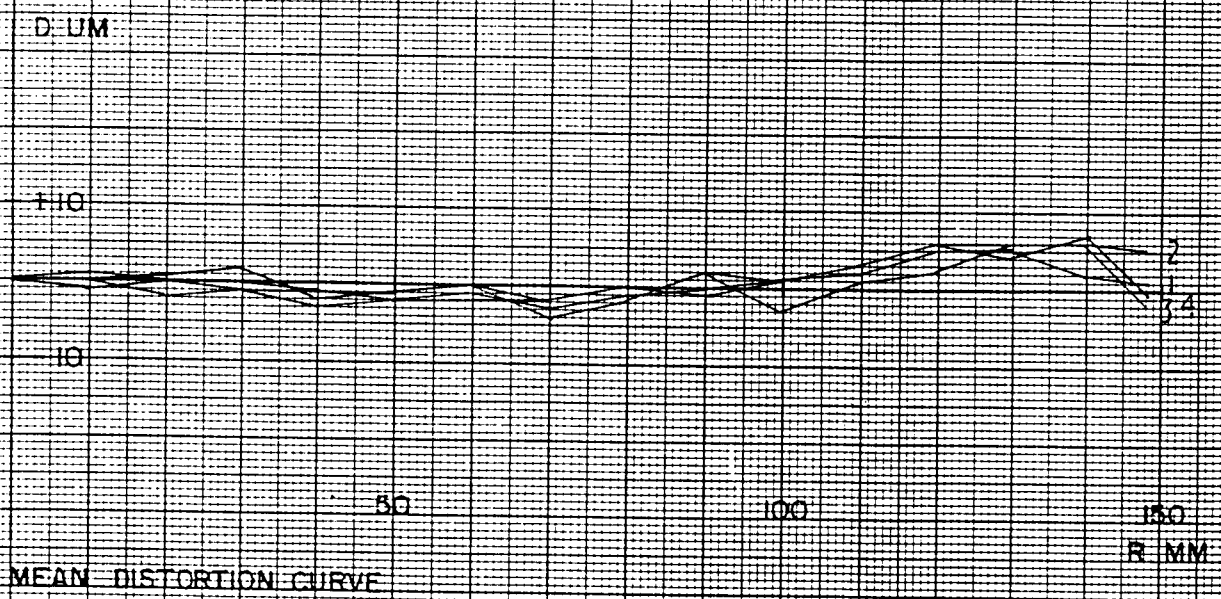
DISTANCES (SIDE) 7-5= 219.98 5-8= 219.996
8-6= 219.995 6-7= 219.983



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C.F.I. 152.208mm
FILTER ON CAMERA NONE FITTED
APERTURE f5.6



AP/OM ZEISS LMK 265005A/2
26.2.96

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Aeroflight