

CAMERA Zeiss Ix No. 602 has been calibrated with Ross 6" F5.5  
Wide Angle Survey lens No. 9667 and Register Glass No. E499  
 Filter Minus Blue Glass No. 9667 fitted in front of the lens.

**PRINCIPAL POINT :** Marked by cross on centre of register glass surface.

**PRINCIPAL DISTANCE** 152.75 m/m.

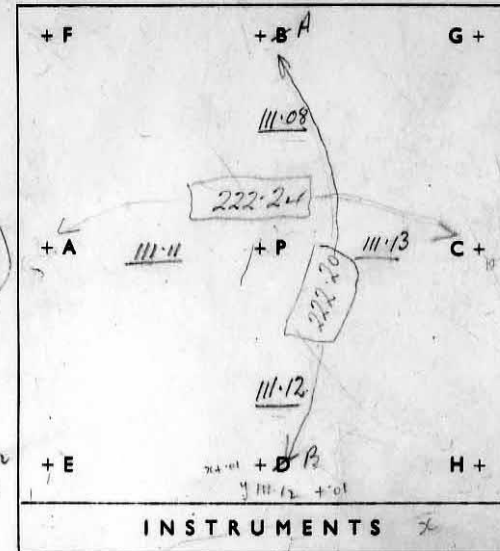
In obtaining the principal distance a value has been adopted which results in a negative distortion of 0.16 m/m. for the zone 35° from the axis.

**DISTORTION :** The distortion, positive if towards the centre of the field, negative if away from it, of a point in the image from the position it should occupy is given, for different angles of obliquity, in the following table:

ANGLE	E	F	G	H	MEAN
0°	0	0	0	0	0
5°	-0.007	-0.002	-0.012	-0.008	-0.007
10°	-0.008	-0.018	-0.012	-0.026	-0.016
15°	-0.033	-0.037	-0.033	-0.033	-0.034
20°	-0.053	-0.057	-0.065	-0.071	-0.062
25°	-0.090	-0.084	-0.106	-0.102	-0.096
30°	-0.129	-0.124	-0.124	-0.135	-0.128
35°	-0.161	-0.160	-0.161	-0.159	-0.160
40°	-0.158	-0.143	-0.149	-0.152	-0.151
45°	-0.010	+0.005	+0.019	-0.003	+0.003

The distortion has been measured across the diagonals of the format and tabulated E.F.G.H. for the radial lines in the direction of the fiducial marks likewise identified. Curves plotted from the table are attached.

**FIDUCIAL MARKS.** The following dimensions are given as a view of the top of the camera or of a positive print with the emulsion side uppermost.



$$\frac{x+y}{2} = 222.22$$

CO-ORDINATES REFERRED TO P AS ORIGIN		
	X	Y
A	-111.11 m/m.	0
B	0	+111.08 m/m.
C	+111.13 m/m.	0
D	+0.01 m/m.	-111.12 m/m.
E	-111.12 m/m.	-111.11 m/m.
F	-111.12 m/m.	+111.13 m/m.
G	+111.13 m/m.	+111.09 m/m.
H	+111.13 m/m.	-111.12 m/m.

9th October 1951.

PHOTOGRAMMETRIC LABORATORY

ROSS 6" F5.5 WIDE ANGLE SURVEY LENS.

REPORT No 376  
E X/602  
LENS No 9667

DISPLACEMENT IN MILLIMETRES

F ———  
G ———  
H ———

10°

20°

30°

40°

f 152.938

VERTICAL SCALE 1C.M.=0.02MM

*M. J. H. [Signature]*  
PHOTOGRAMMETRIC LAB  
WILLIAMSON MFG. CO. LTD.  
9th OCTOBER 1951

ANGLE OFF AXIS

41°30'

