

**CAMERA CALIBRATION CERTIFICATE** 13.12.76

**WILD LENS CONE // ~~CAMERA~~**

NO. 15 UMG II NO. 3004

TYPE: 1 C 10

THIS CALIBRATION CERTIFICATE REPLACES THE  
PREVIOUS CERTIFICATE ISSUED ON 76/03/25

V+D Suckan

# CAMERA CALIBRATION

LEN : 15 UMG II NO.: 2004

CALIBRATION DATE: 76/12/13

FILM ON CAMERA: ----  
APERTURE: 2 / 5.6

CALIBRATED FOCUS LENGTH 153.08 MM

153.08 III

## DISTORTION (MICROMETERS)

POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER.

RADIUS MM	ANTI-DIAGONAL				TOTAL
	1	3	2	4	
0	0	0	0	0	0
10	-1	-1	-2	0	-1
20	0	-1	0	1	0
30	-1	-1	0	1	0
40	0	1	-1	1	0
50	0	1	2	2	1
60	2	0	1	2	1
70	3	3	2	2	3
80	3	2	4	3	3
90	1	2	4	3	2
100	1	2	-1	2	1
110	-1	0	0	0	0
120	-3	-2	-2	-1	-2
130	-5	-5	-2	-3	-3
140	-6	-5	-2	-4	-4
148	-1	-4	2	1	-1

## RESOLVING POWER (LINE PAIRS PER MILLIMETER)

CONTRAST (LOG) 2.0 APERTURE: 4.0 FILM: KODAK SAFETY FILM

ANGLE (DEG.) 0 5 10 15 20 25 30 35 40 45

RES. 04 75 104 72 56 40 65 69 26 11  
THG. 04 74 82 56 53 49 63 57 39 30

NA 56

# CAMERA CALIBRATION

LITH : 15 UAG II

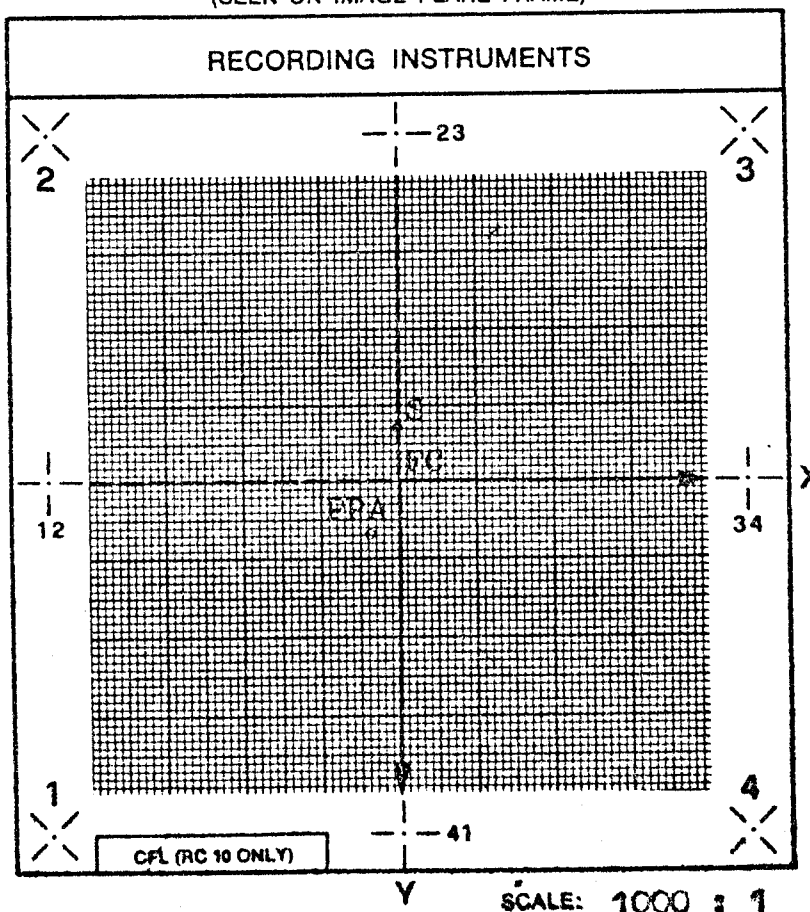
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POINT	X mm	Y mm
FC	0.000	0.000
	-0.000	-0.007
PPA	-0.004	0.007
1	-105.999	105.998
2	-106.001	-106.000
3	105.993	-105.992
4	106.005	106.004

S : POINT OF BEST SYMMETRY  
PPA : PRINCIPAL POINT OF AUTOCOLLIMATION

(SEEN ON IMAGE PLANE FRAME)



IS URG 11 NO 3004

76/12/19

C.F.L. 153.00 MM  
FILTER ON CAMERA ----  
APERTURE F/5.6

