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30-03-09

## Calibration Certificate

### Wild Lens Cone / ~~Camera~~

**No.** 15 0 1 01

**Type:** RC5/A

This calibration certificate replaces the  
previous certificate issued on 16.10.68

**Lens Cone / Camera**

Type: *...*  
 No.: *...*  
 Format: 9 x 12

**Lens**

**Calibration date:** 9.3.70

Type: Universal - Aviogon  
 No.: 431  
 f = 151.9 mm  
 max. aperture: f:5.6

**Resolving Power (Lines per millimeter)**

High contrast and max. aperture f:5.6

Film: *Agfa D 19 black*

Glass plate:

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
rad.	53	53	52	51	55	48	51	49	24	7			
tang.	53	53	51	49	47	49	44	40	35	15			

rad.													
tang.													

**Distortion in millimeters**

The given distortion is the arithmetic mean of the four semi-diagonals. Positive values denote image displacement away from center.

Goniometer measurements made with no filter on Lens Cone / ~~Camera~~

Calibrated focal length: *151.9 mm*

Radius	20	40	60	80	100	120	140	148
Distortion	+0.005	+0.007	+0.005	0.000	-0.005	-0.007	+0.002	+0.009

The displacement of the principal point of autocollimation from the intersection of the diagonals (fiducial center) is within 0.015 mm.

Date of Dispatch: 11.3.70

WILD HEERBRUGG  
 Limited *Jam 542*

**Lens Cone/Camera****Lens****Calibration date:** 9.3.70

Type: RC5/RC8

Type: Universal - Aviogon

Format: 9" x 9"

No.: 15 UAg. 481 f = 151.98 mm

Coordinates (Origin: Fiducial Center) of

Point of best Symmetry (S):

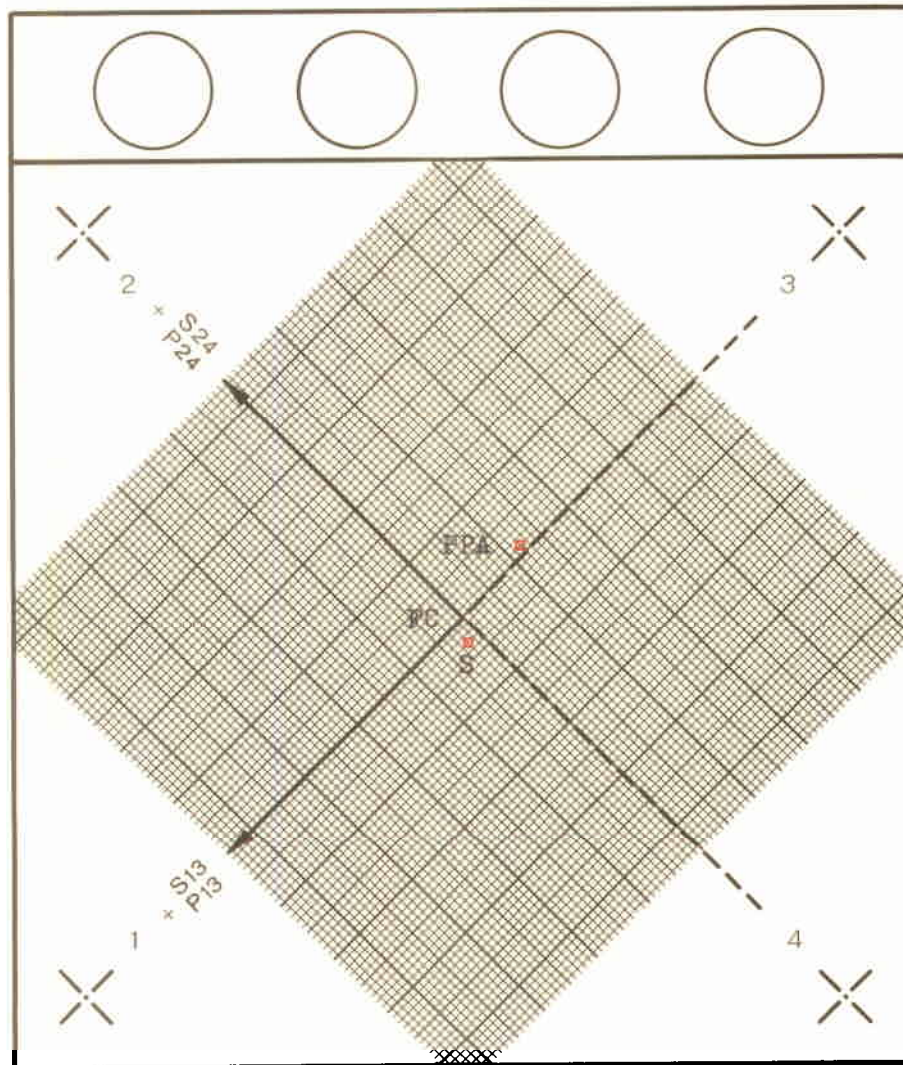
S13 = + 2  $\mu$ m S24 = -3  $\mu$ m

Principal Point of Autocollimation (PPA):

P13 = -12  $\mu$ m P24 = +1  $\mu$ m

(Calibration without filter)

(Seen on Focal Plane Frame)



SCALE: 1000:1

Distances between Fiducial Marks in mm:

1 - 2 = 211.996

1 - 3 = 299.823

2 - 3 = 212.003

2 - 4 = 299.815

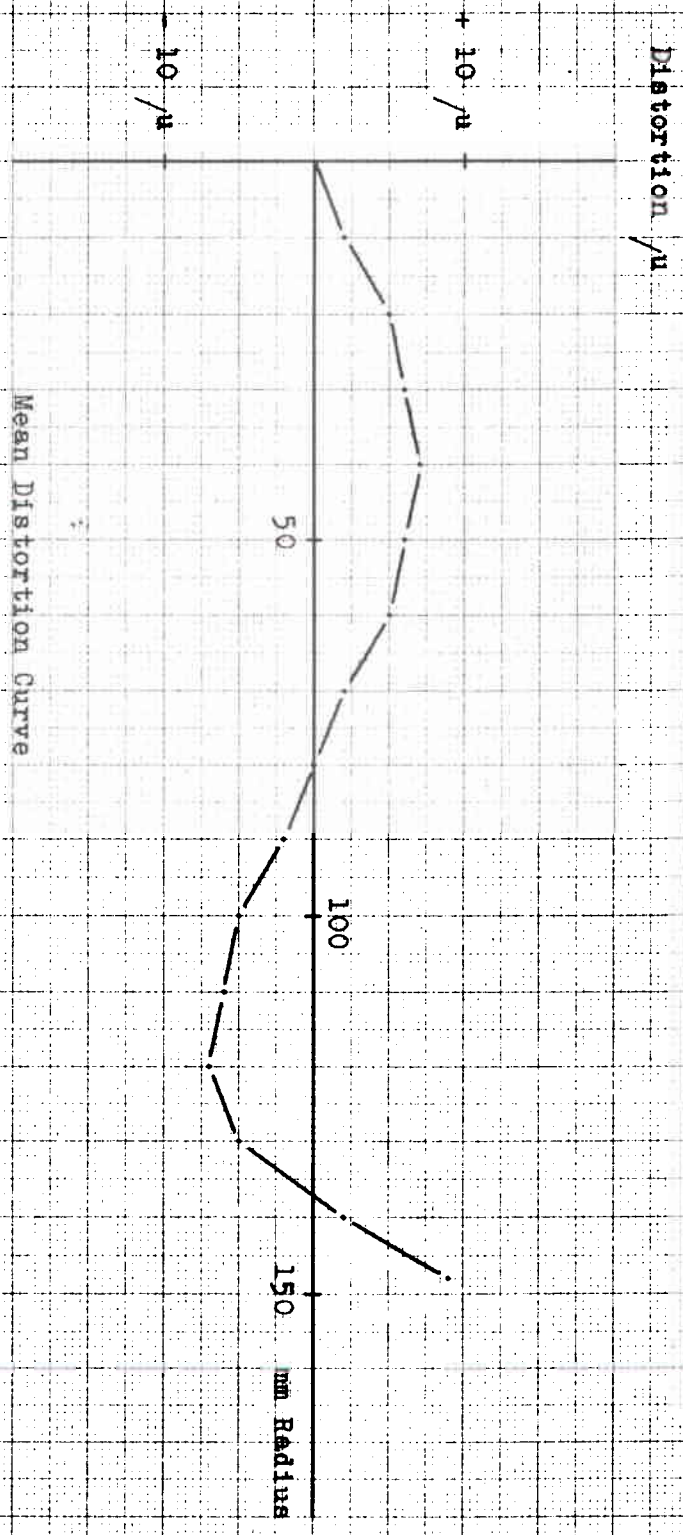
3 - 4 = 212.013

4 - 1 = 212.005

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Gam. 542

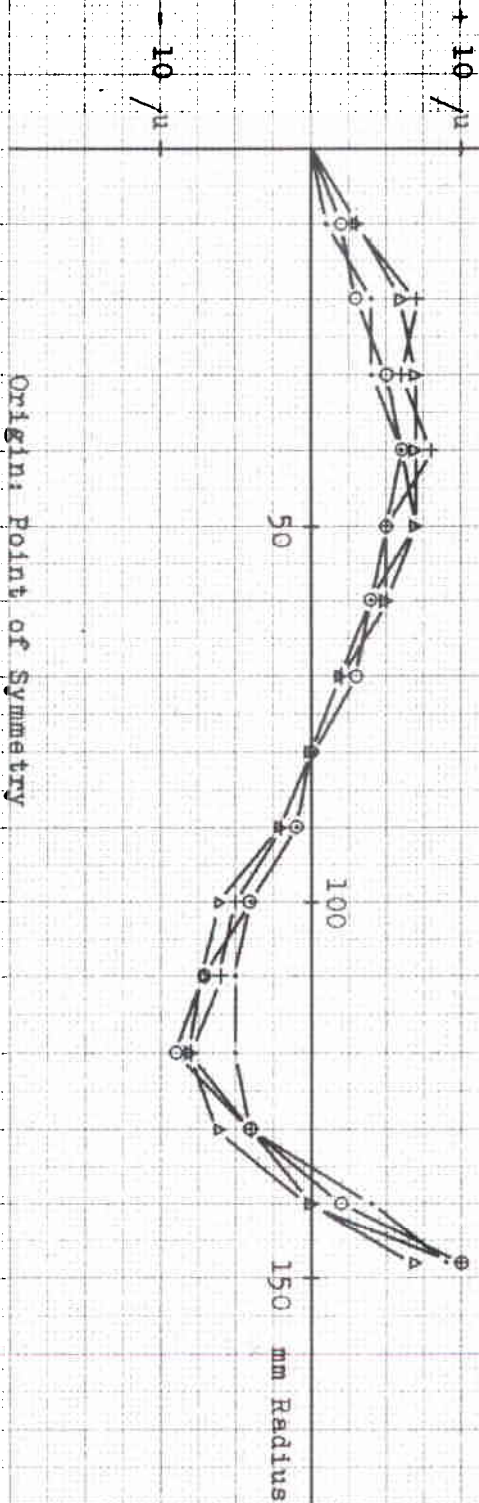
WILD UNIVERSAL - AVIOGON Lens Cone 9" x 9" No. 15 UAG. 481  $f = 151.98$  mm



WILD HEERBRING LTD  
9.3.70 from 542

WILD UNIVERSAL - AVIOGON lens Core 9" x 9" No. 15 DAG. 481  $f = 151.98 \text{ mm}$

Distortion  $\%u$



• = 1  
+ = 3  
△ = 2  
○ = 4

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9.3.70 *Gain. 542*