

## Calibration Certificate

09.10.1972

**Wild Lens Cone / Camera**

**No.** 15 Ag. 174

**Type:** RC5/RC8

## Lens Cone / Camera

Type: RC5/RC8  
No.: 15 Ag. 174  
Format: 9" x 9"

## Lens

Type: Aviogon  
No.: 174  
f = 152.02 mm  
max. aperture: f/5.6

Calibration date: 9.10.72

## Resolving Power (Lines per millimeter)

High contrast and max. aperture f/5.6

Film: Agfa IP 15 blank

Glass plate:

|       | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° |
|-------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| rad.  | 53 | 53 | 52  | 51  | 49  | 38  | 51  | 49  | 29  | 8   |     |     |     |
| tang. | 53 | 53 | 51  | 49  | 52  | 49  | 44  | 40  | 28  | 19  |     |     |     |

|       |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 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: 152.02 mm

| Radius     | 20     | 40     | 60     | 80     | 100    | 120    | 140    | 148    |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Distortion | +0.006 | +0.007 | +0.004 | -0.001 | -0.006 | -0.007 | +0.002 | +0.011 |

The displacement of the principal point of autocollimation from the intersection of the diagonals (fiducial center) is within 0.01 mm.

Date of Dispatch: 11.10.72

WILD HEERBRUGG  
Limited *firm 542*

**Lens Cone/Camera****Lens****Calibration date:** 9.10.72

Type: RC5/RC8

Type: Aviogon

Format: 9" x 9"

No.: 15 Ag. 174  $f = 152.02$  mm

Coordinates (Origin: Fiducial Center) of

Point of best Symmetry (S):

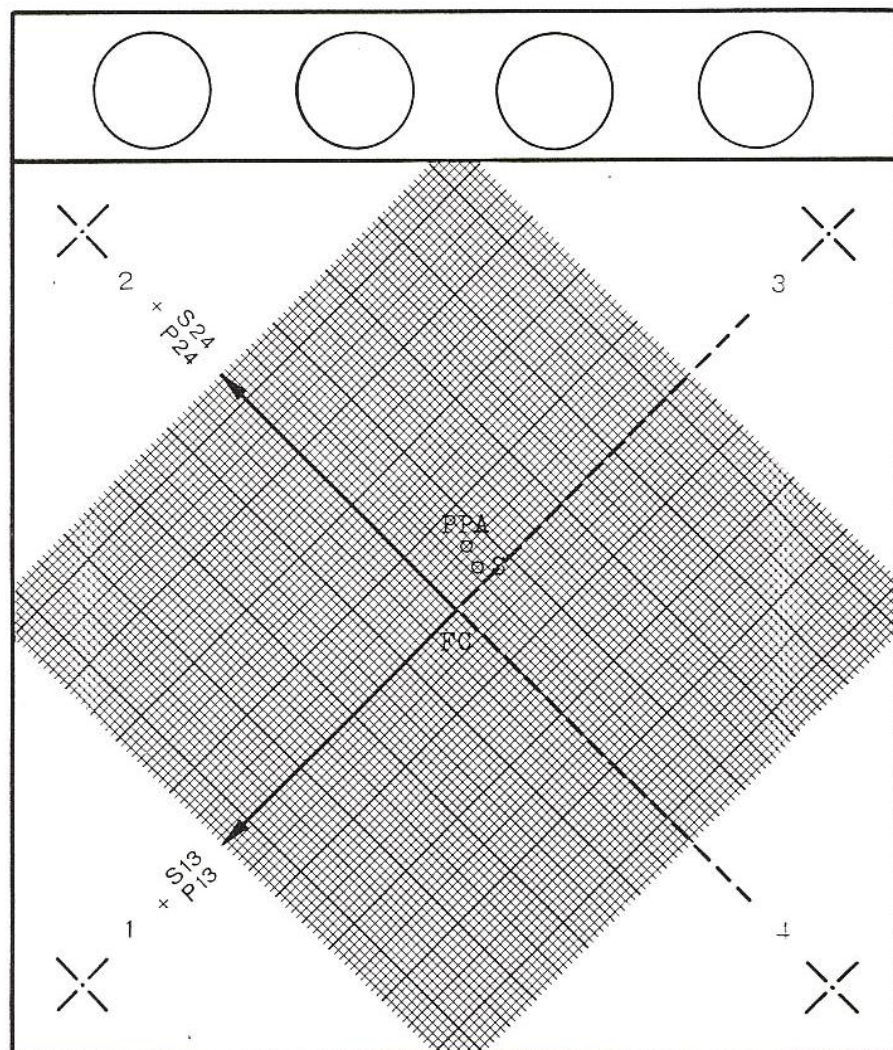
 $S_{13} = -6 \mu\text{m}$   $S_{24} = +2 \mu\text{m}$ 

Principal Point of Autocollimation (PPA):

 $P_{13} = -7 \mu\text{m}$   $P_{24} = +5 \mu\text{m}$ 

(Calibration without filter)

(Seen on Focal Plane Frame)



SCALE: 1000:1

Distances between Fiducial Marks in mm:

1 — 2 = 212.006

1 — 3 = 299.826

2 — 3 = 212.005

2 — 4 = 299.820

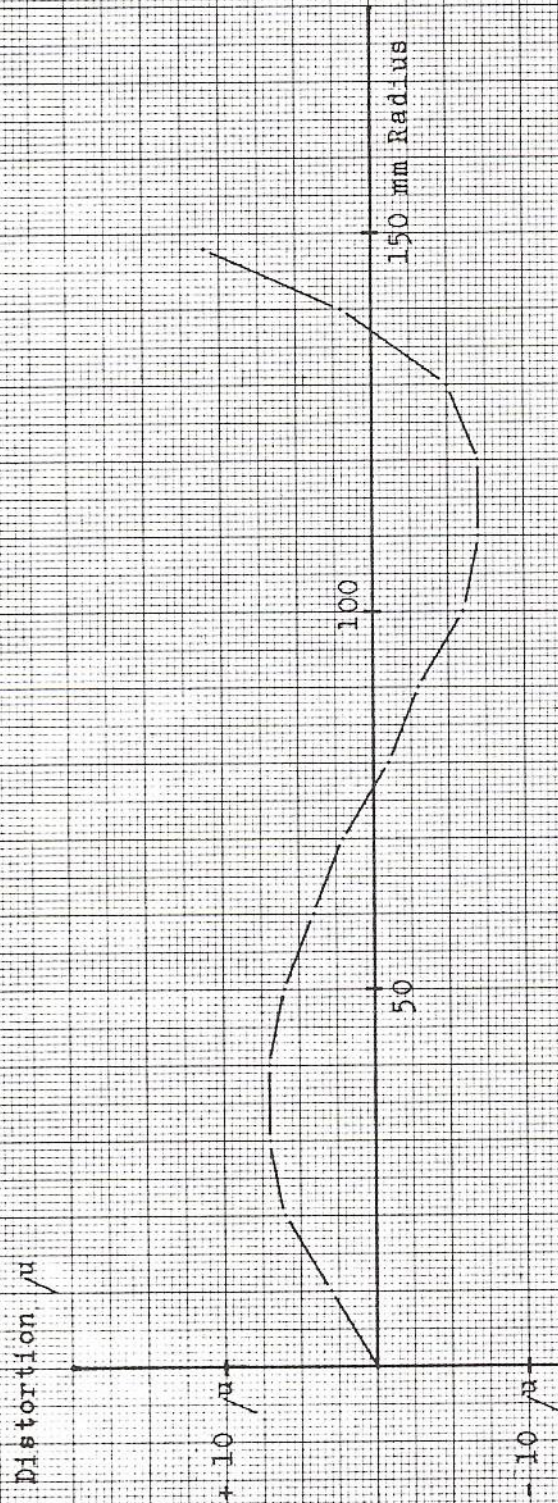
3 — 4 = 212.007

4 — 1 = 212.010

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Gam. 542

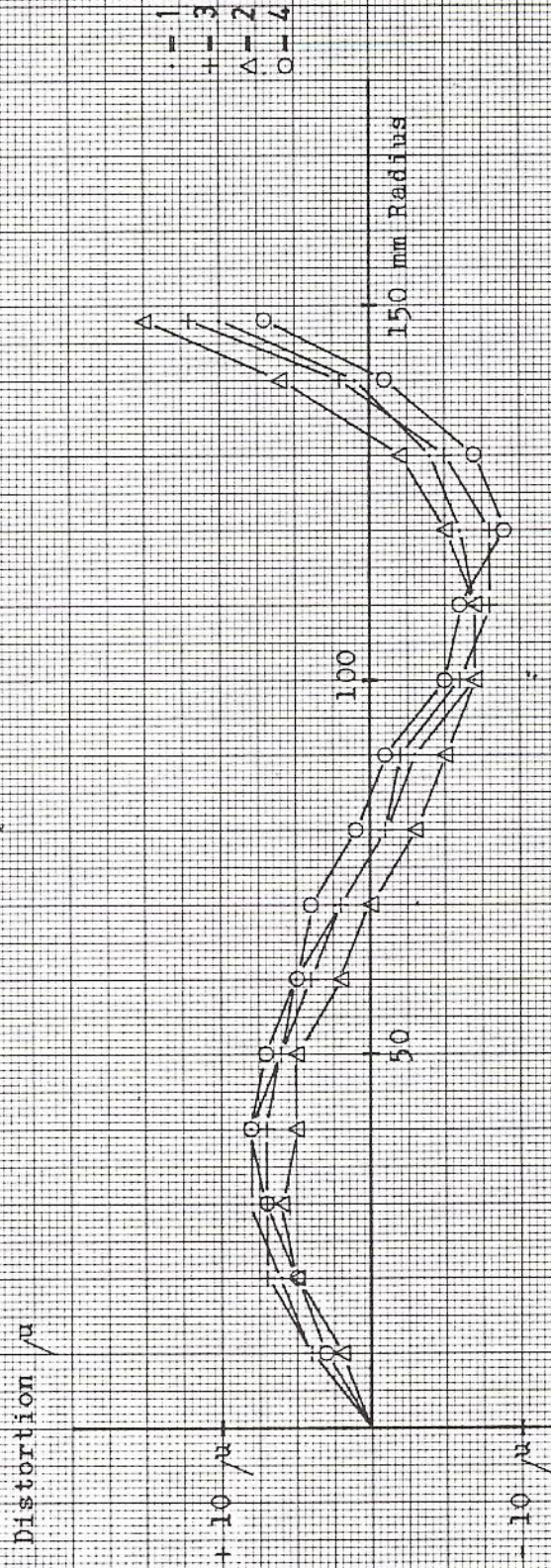
WILD AVIOGON Lens Cone 9" x 9" No. 15 Ag. 174 f = 152.02 mm



Mean Radial Distortion Curve

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WILD AVIOCON Lens Cone 9" x 9" No. 15 Ag. 174 f = 152.02 mm



Origin: Point of Symmetry

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9.10.72 *John S.H.*