

## Calibration Certificate

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

**No.** 15 UAg. 1012

**Type:** RC 10

This calibration certificate replaces the  
previous certificate issued on 2.7.70

**Lens Cone / Camera**

Type: 10 10  
 No.: 15 Aug. 1012  
 Format: 9" x 9"

**Lens Calibration date:** 21.7.72

Type: Universal - Aviogon  
 No.: 1012  
 f = 151.40 mm  
 max. aperture: f/5.6

**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  | 43  | 51  | 49  | 20  | 7   |     |     |     |
| tang. | 53 | 53 | 51  | 49  | 47  | 44  | 44  | 40  | 35  | 21  |     |     |     |

|       |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 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: 151.40 mm

| Radius     | 20     | 40     | 60     | 80    | 100    | 120    | 140    | 148    |
|------------|--------|--------|--------|-------|--------|--------|--------|--------|
| Distortion | +0.003 | +0.005 | +0.004 | 0.000 | -0.004 | -0.005 | +0.001 | +0.010 |

The displacement of the principal point of autocollimation from the intersection of the diagonals (fiducial center) is within 0.02 mm.

Date of Dispatch: 31.7.72

WILD HEERBRUGG  
 Limited Jam 542

**Lens Cone/Camera****Lens****Calibration date:** 21.7.72

Type: RC 10

Type: Universal - Aviogon

Format: 9" x 9"

No.:15 UAg. 1012 f = 151.40 mm

Coordinates (Origin: Fiducial Center) of

Point of best Symmetry (S):

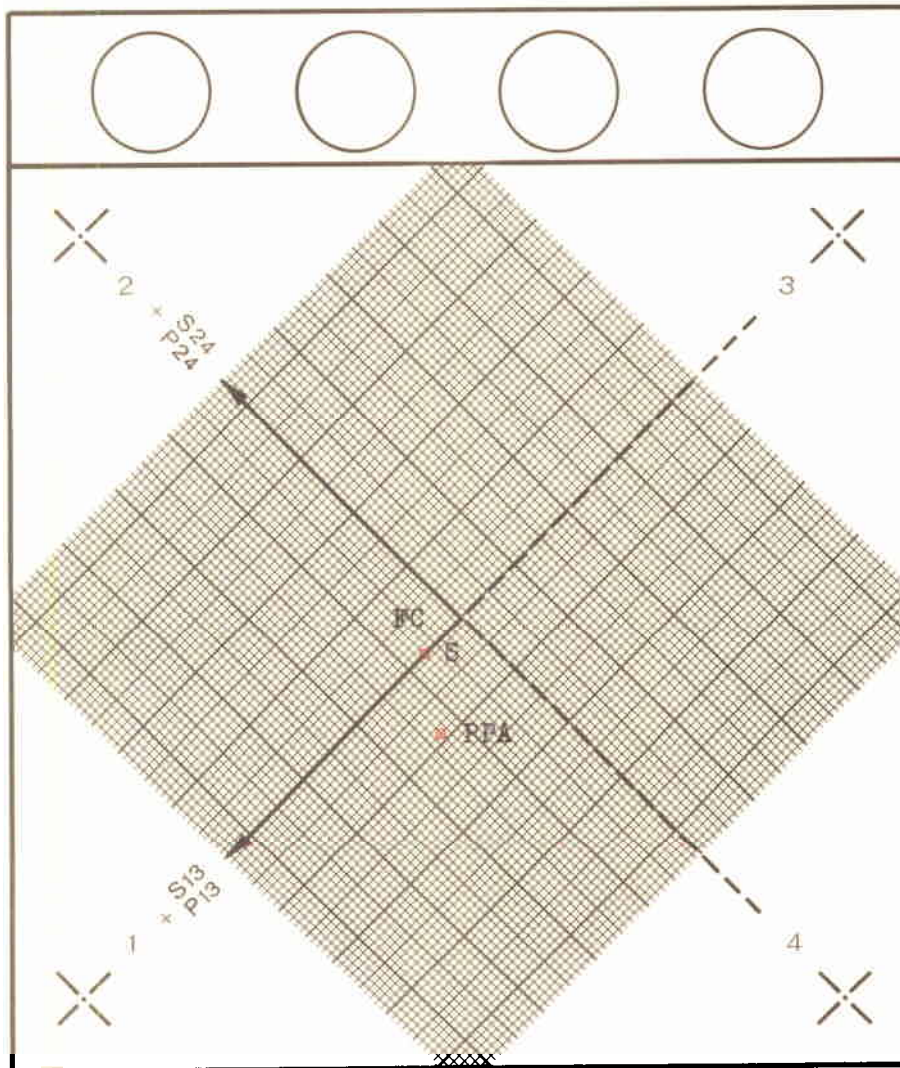
S13 = + 7  $\mu$ m S24 = 0  $\mu$ m

Principal Point of Autocollimation (PPA):

P13 = +13  $\mu$ m P24 = -9  $\mu$ m

(Calibration without filter)

(Seen on Focal Plane Frame)



SCALE: 1000:1

Distances between Fiducial Marks in mm:

1 -- 2 = 212.011

1 -- 3 = 299.823

2 -- 3 = 212.001

2 -- 4 = 299.816

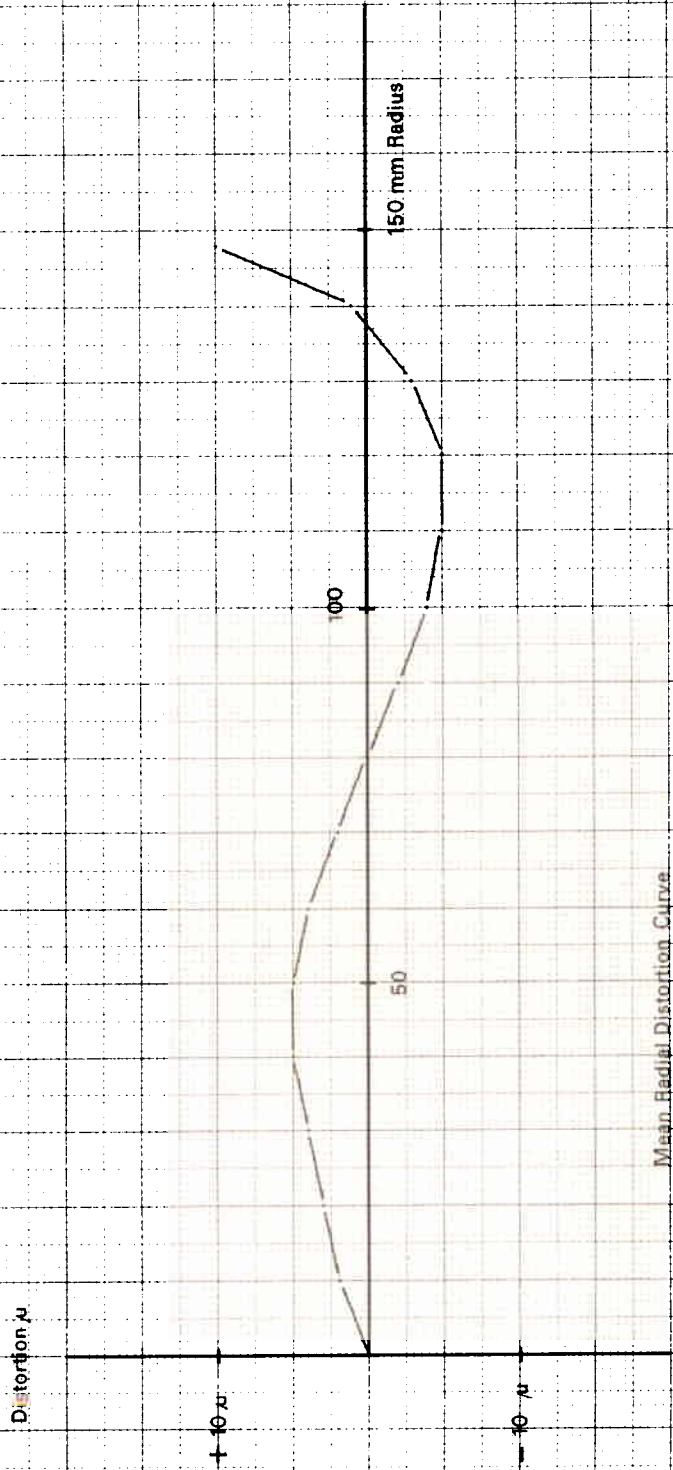
3 -- 4 = 212.007

4 -- 1 = 212.001

WILD HEERBRUGG LTD

*Jim 542*

WILD UNIVERSAL - AVIOGON Lens Cone 9" x 9" No. 15 UAg. 1012 f = 151.40 mm

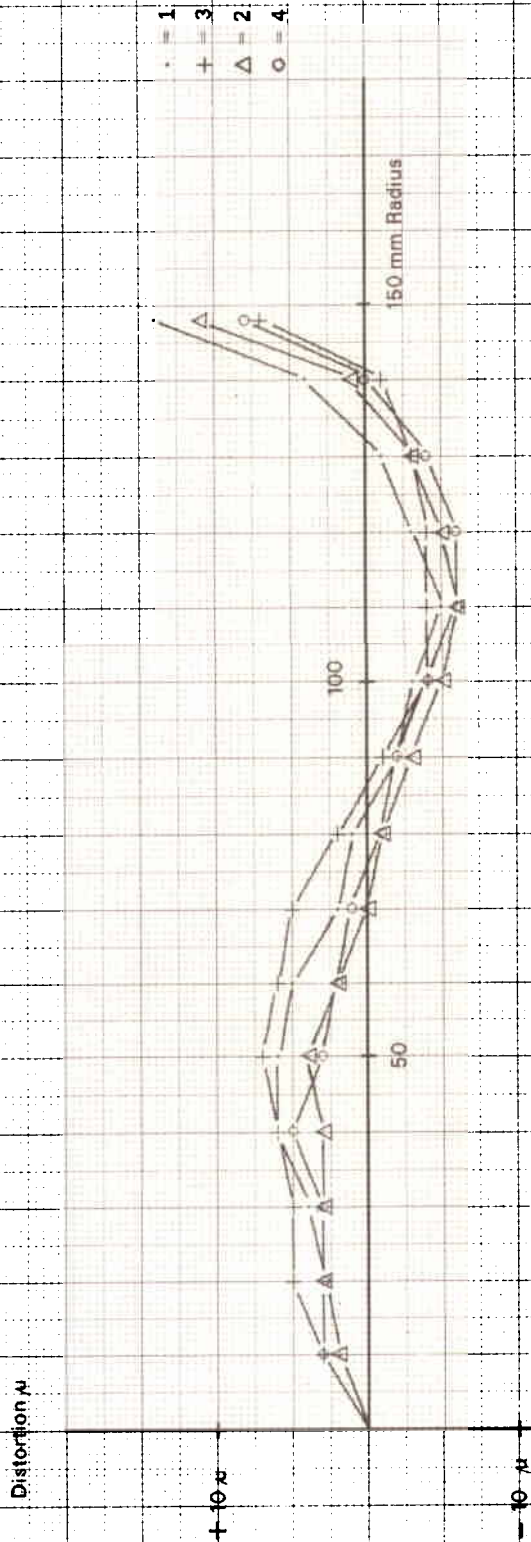


Mean Radial Distortion Curve

WILD HEERBRUGG LTD

21.7.72 Jim 542

WILD UNIVERSAL-AVIAGON Lens Cone 9" x 9" No. 15 UAg. 1012 f = 151.40 mm



WILD HEERBRUGG LTD

21.7.72 *John 542*