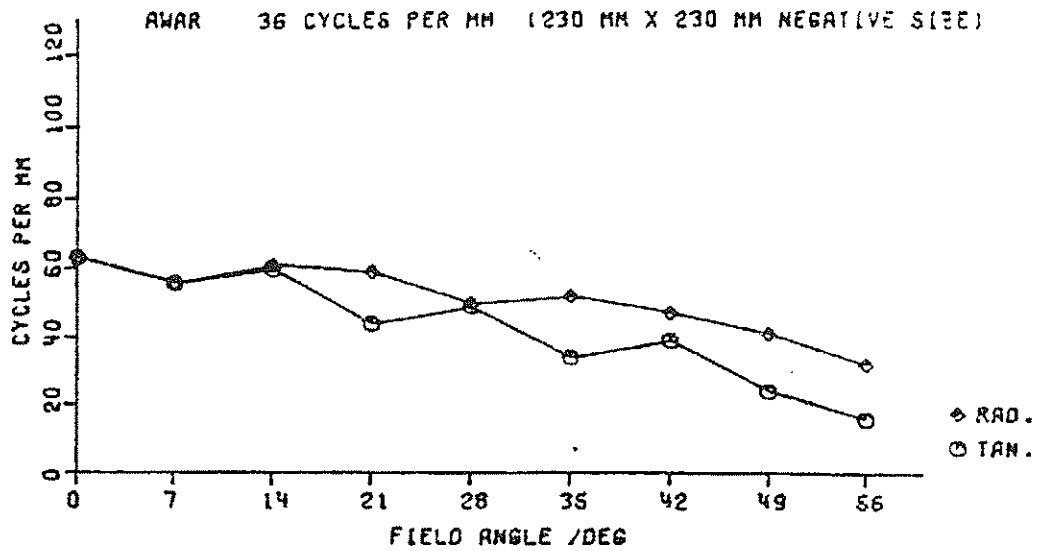


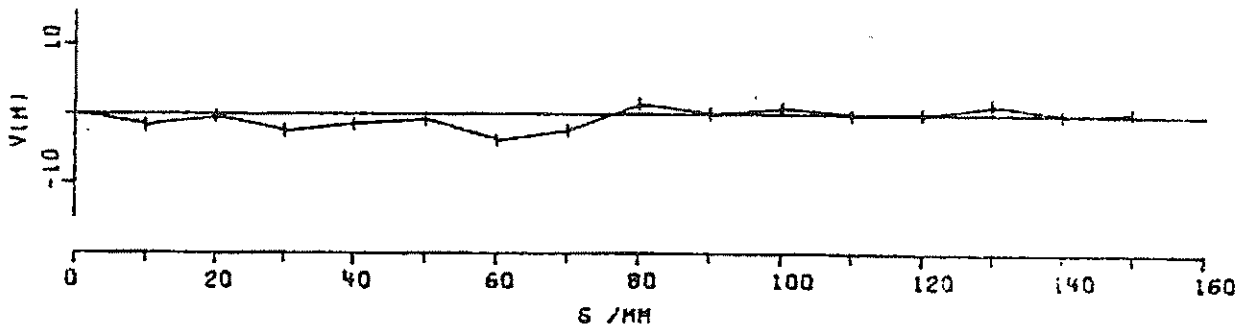
RMK A 8.5/23

NO. 128323

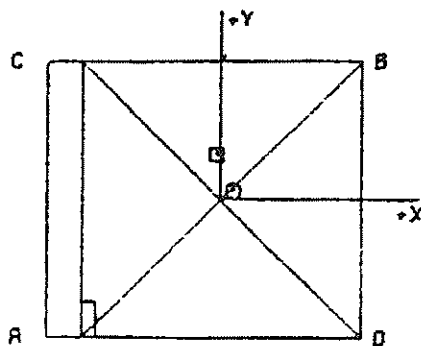
PHOTOGRAPHIC RESOLVING POWER



DEPARTURE OF AVERAGE DISTORTION FROM ZERO REFERENCE



PRINCIPAL POINT (PPA, PPS) AND FIDUCIAL CENTRE (FC)



COORDINATES. REFERRING TO PPS

|       | X / MM | Y / MM |
|-------|--------|--------|
| ⊙ PPA | 0.005  | 0.003  |
| ⊠ FC  | -0.001 | 0.016  |

⊠ 0.01 MM. X-AXIS AS DEFINED BY FIDUCIAL MARK COORDINATES

$\alpha(A) = 0.0^\circ$      $\alpha(D) = \alpha(A) + 90^\circ$

RMK A 8.5/23

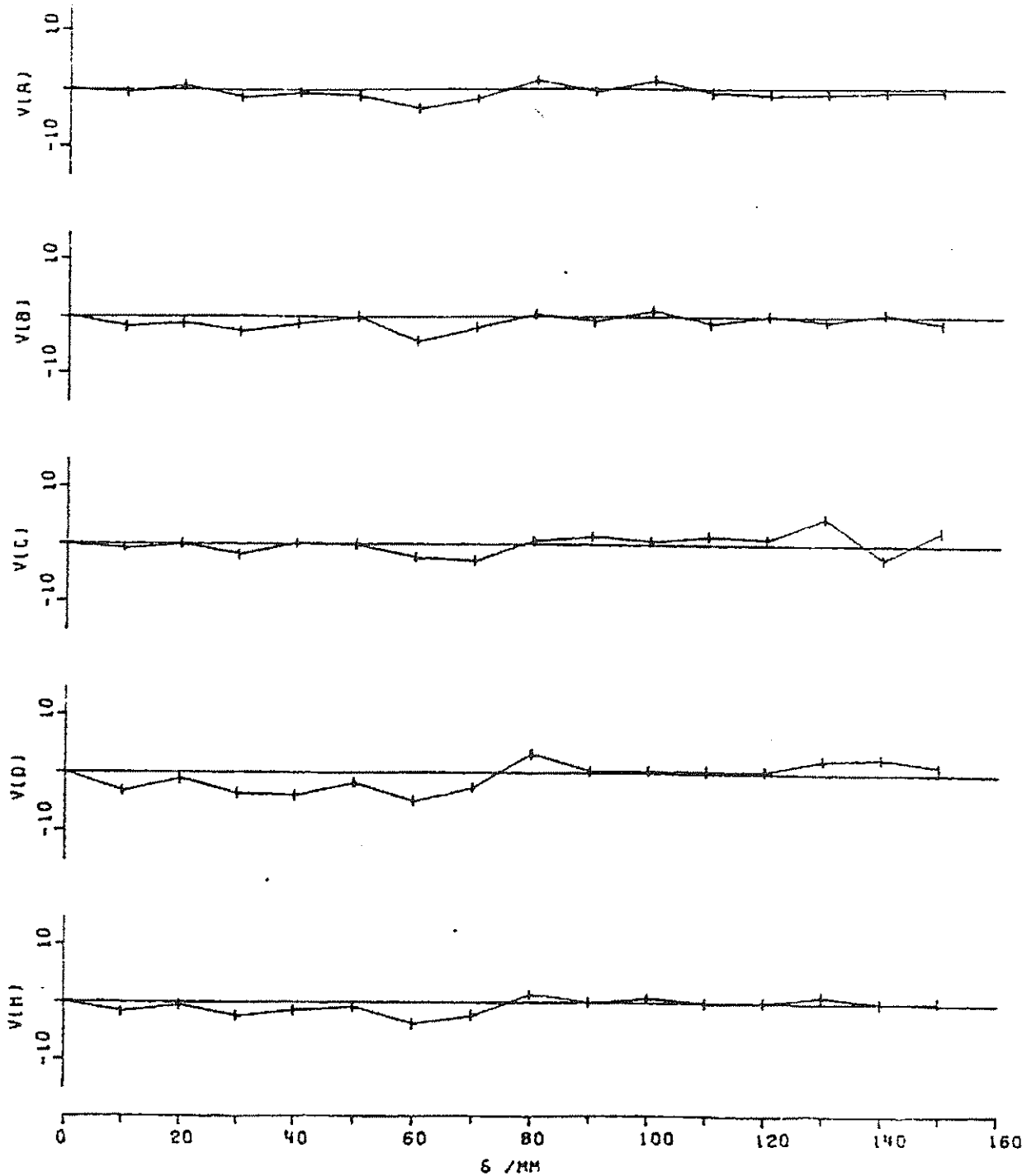
NO: 128323

S-PLEGON A2 4/85

NO: 128329

CFL=85.541 MM

DISTORTION /0.001 MM. REFERRING TO PPS



C A R L Z E I S S  
OBERKOCHEN/WUERTT.

C A L I P P A T I O N C E R T I F I C A T E  
FOR PHOTOGRAMMETRIC CAMERAS

CAMERA TYPE: RMK A 8,5/23  
LENS TYPE: 7-PLEGON A2  
MAX. APERTURE: F/4

SERIAL NO. 128323  
SERIAL NO. 128329  
NOM. FOCAL LENGTH: 85 MM

1) CALIBRATED FOCAL LENGTH = 85,041 MM

2) DISTORTION /0,001 MM, REFERRING TO P.P. OF SYMMETRY PPS

| S/MM= | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
|-------|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| A     | 0 | -0 | 1  | -1 | -1 | -1 | -3 | -2 | 1  | -0 | 2   | -1  | -1  | -1  | -1  | -1  |
| B     | 0 | -2 | -1 | -3 | -1 | -0 | -4 | -2 | 0  | -1 | 1   | -1  | 0   | -4  | -1  | -1  |
| C     | 0 | -1 | 0  | -2 | 0  | -0 | -2 | -3 | 1  | 2  | 1   | 2   | 1   | 5   | -2  | 3   |
| D     | 0 | -3 | -1 | -4 | -4 | -2 | -5 | -2 | 3  | 0  | 1   | 1   | 1   | 3   | 3   | 1   |
| AV.   | 0 | -2 | -0 | -2 | -1 | -1 | -4 | -2 | 2  | 0  | 1   | 0   | 0   | 1   | -1  | 1   |

3) P.P. OF AUTOCOLLIMATION AND FIDUCIAL CENTRE, REFERRING TO PPS

P.P. OF AUTOCOLLIMATION PPA X= .005 Y= .03 MM  
FIDUCIAL CENTRE FC X= -0.001 Y= .16 MM

4) FIDUCIAL MARKS, REFERRING TO PPS

X1= 112.998 X2= -113.005 X3= -0.000 X4= -0.002 MM  
Y1= .017 Y2= .015 Y3= 113.014 Y4= -112.985 MM  
DISTANCES 1-2= 226.003 3-4= 225.999 MM

5) PHOTOGRAPHIC RESOLVING POWER, IN CYCLES PER MM

AREA WEIGHTED AVERAGE RESOLUTION 36

FIELD ANGLE /DEG = 0 7 14 21 28 35 42 49 56

RADIAL LINES 63 56 61 59 50 52 47 41 32  
TANGENTIAL LINES 63 56 60 44 49 34 39 24 16

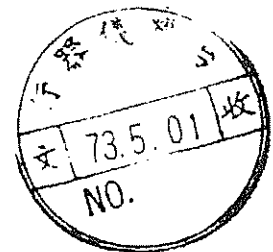
FILM: AVIPHOT PAN 30  
DEVELOPED IN ULTRAFIN 1+15

SPEED 21 DIN

6) FILTERS

KL (CLEAR) NO. 128341  
B (YELLOW) NO. 128348  
D (ORANGE) NO. 128355

7) MAGAZINE PLATEN  
FK 24/120 NO.



ABTEILUNG FUER GEODAESIE UND PHOTOGRAMMETRIE

I.A. *W. Lorch*

DATE 9.02.1979

Dr.-Ing. W. Lorch