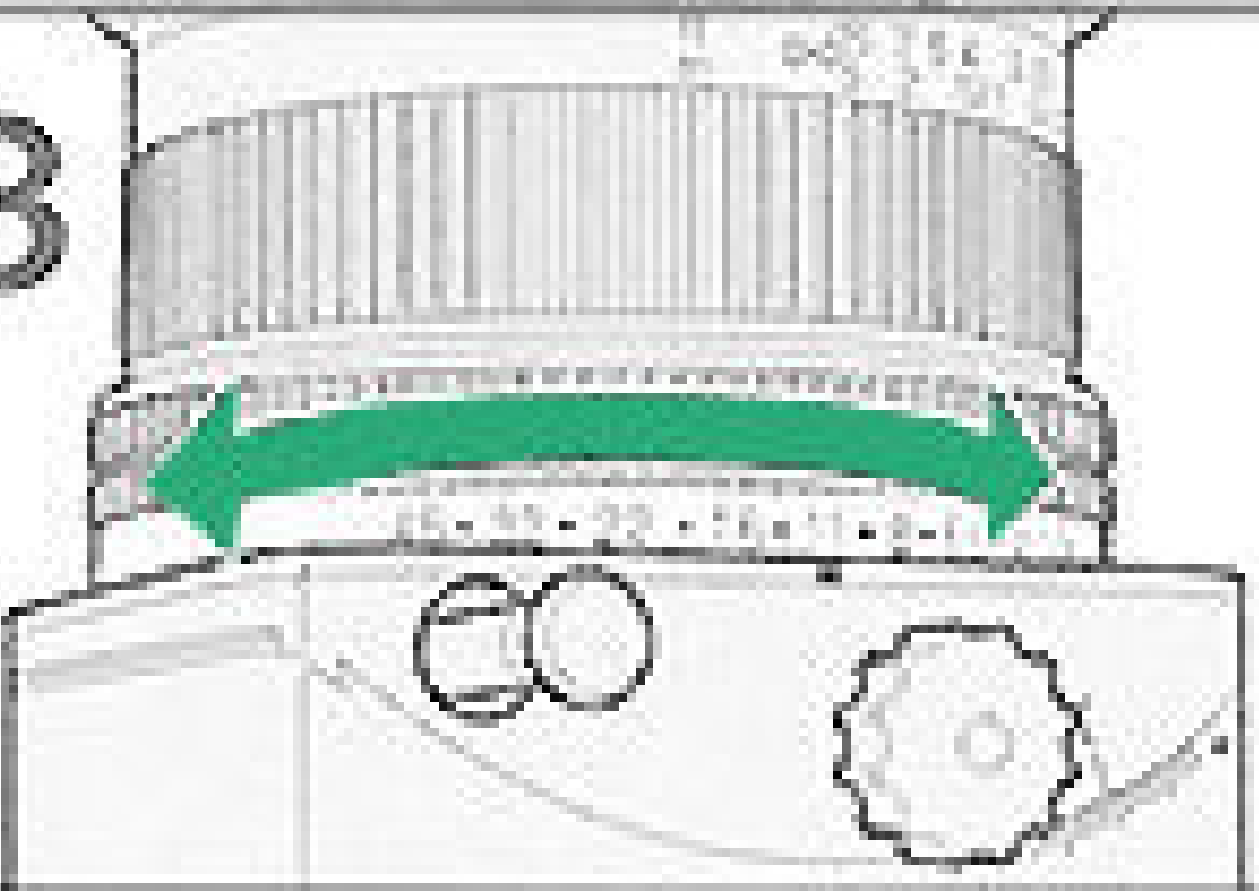
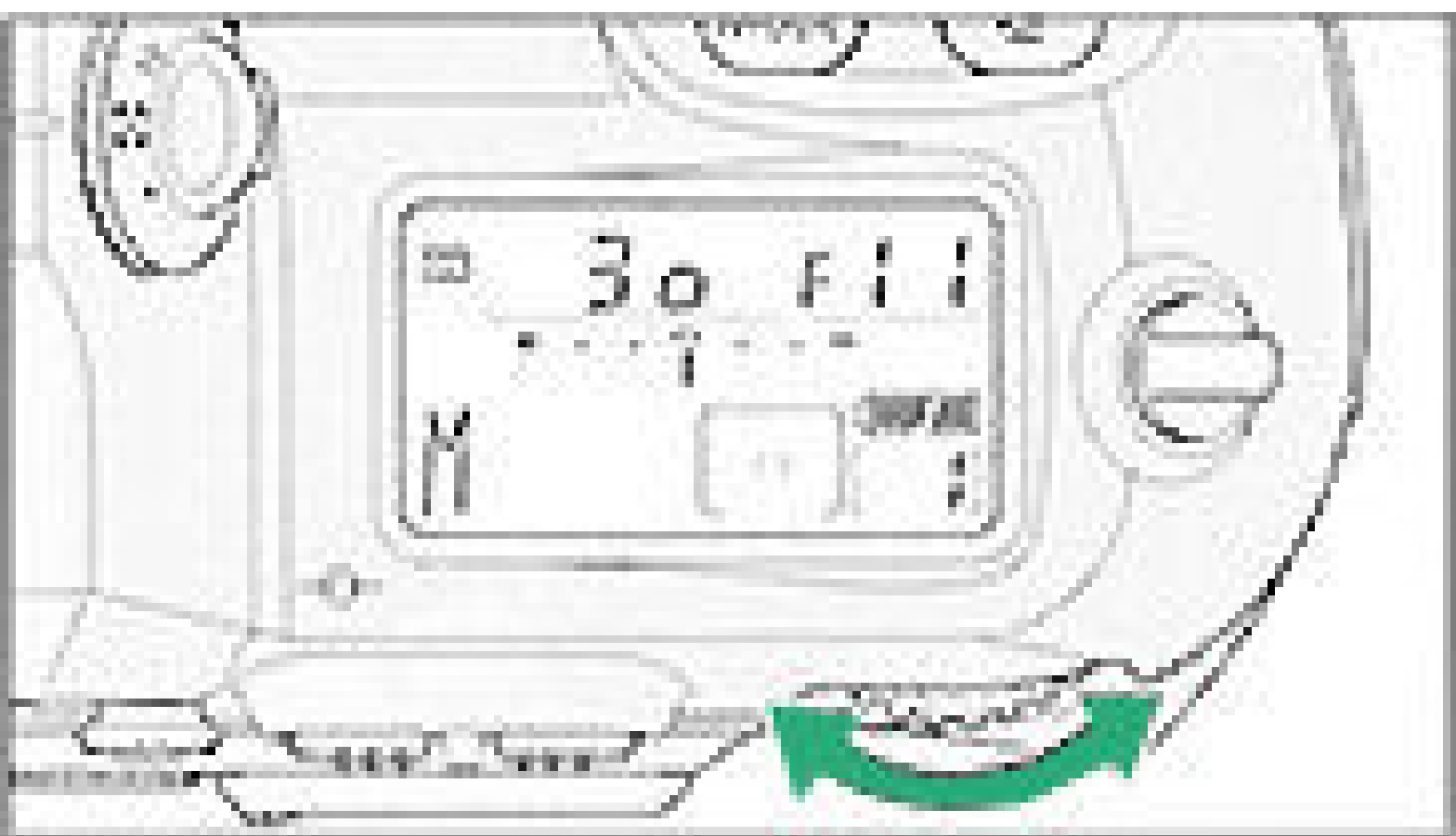
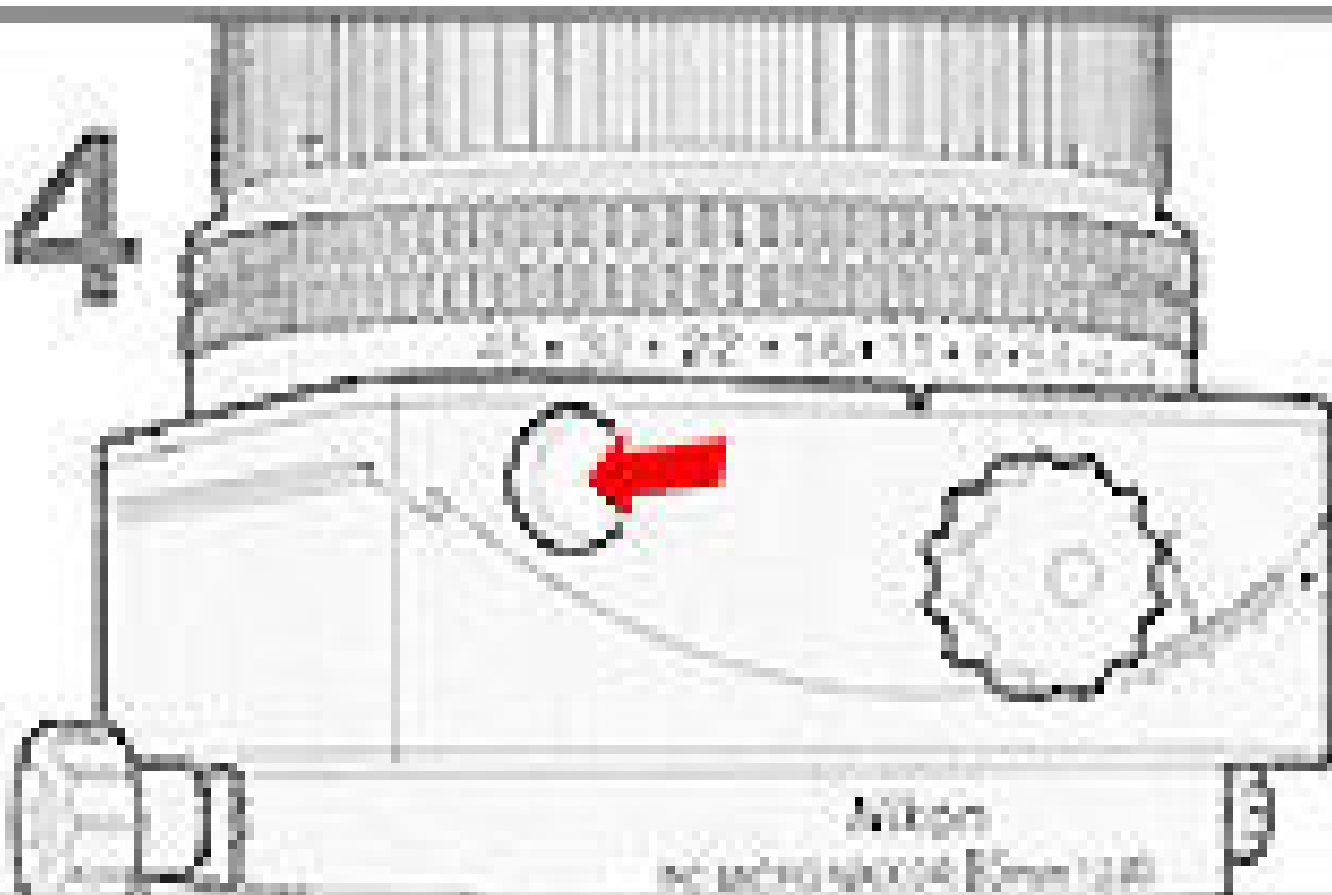


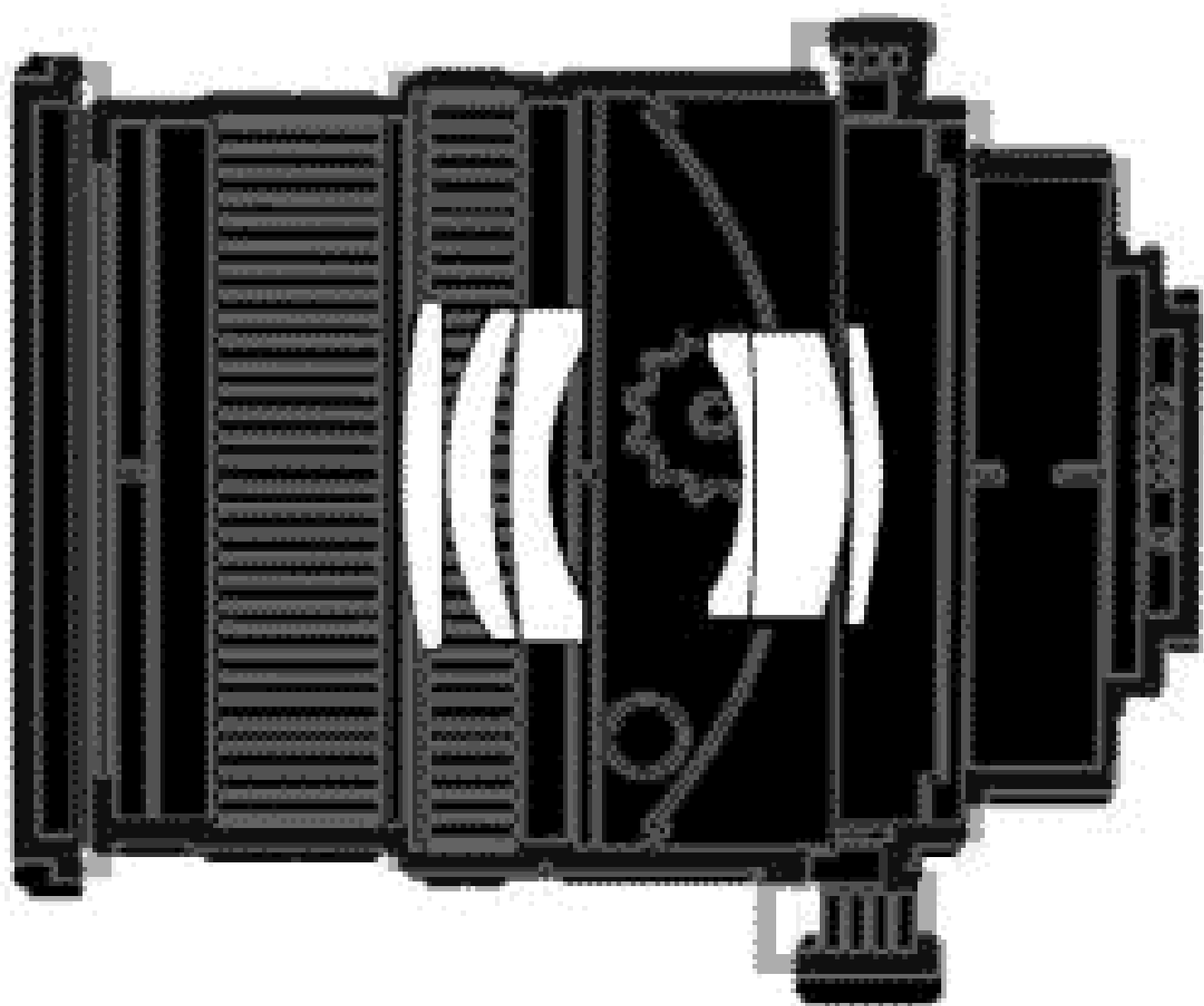
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4

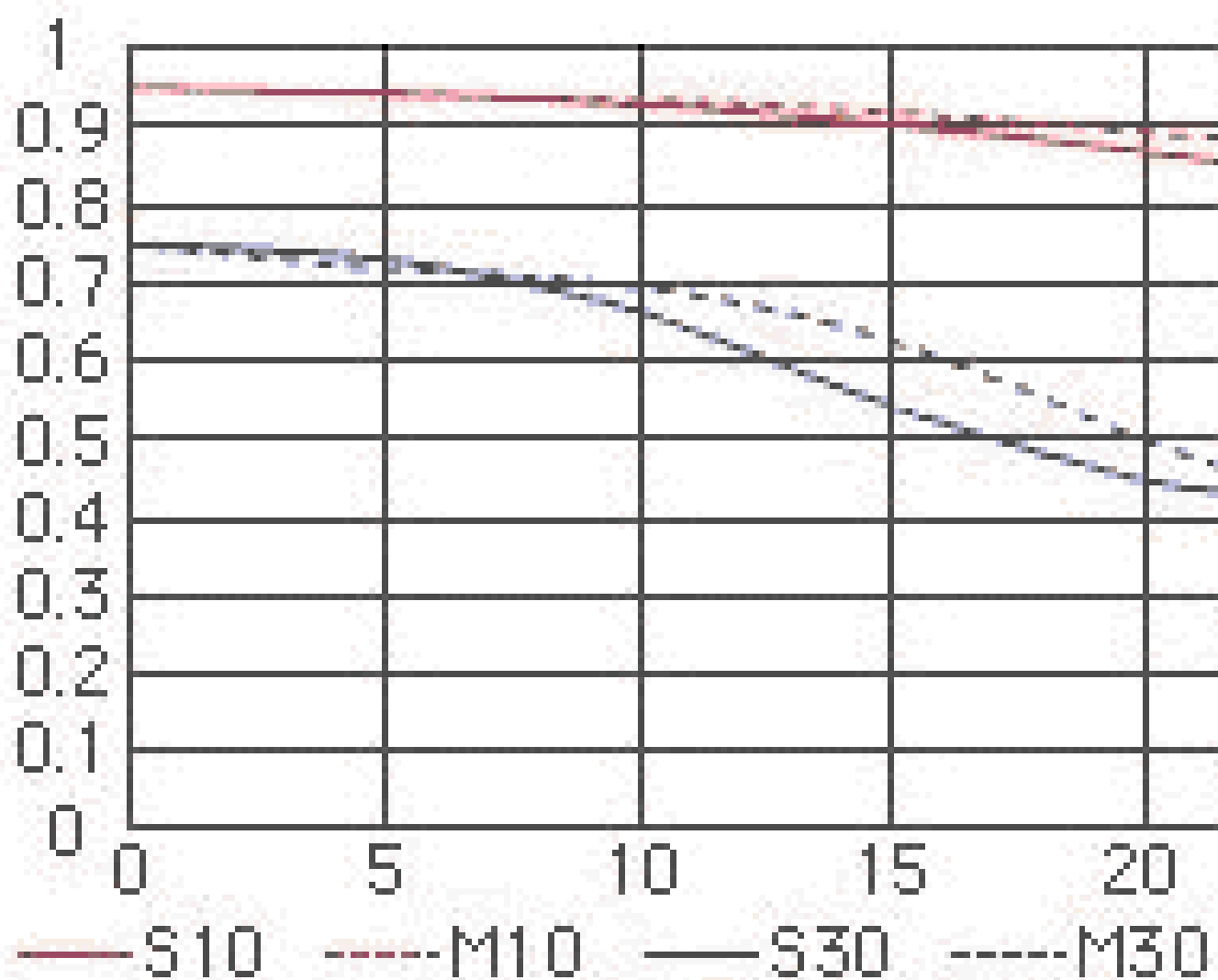




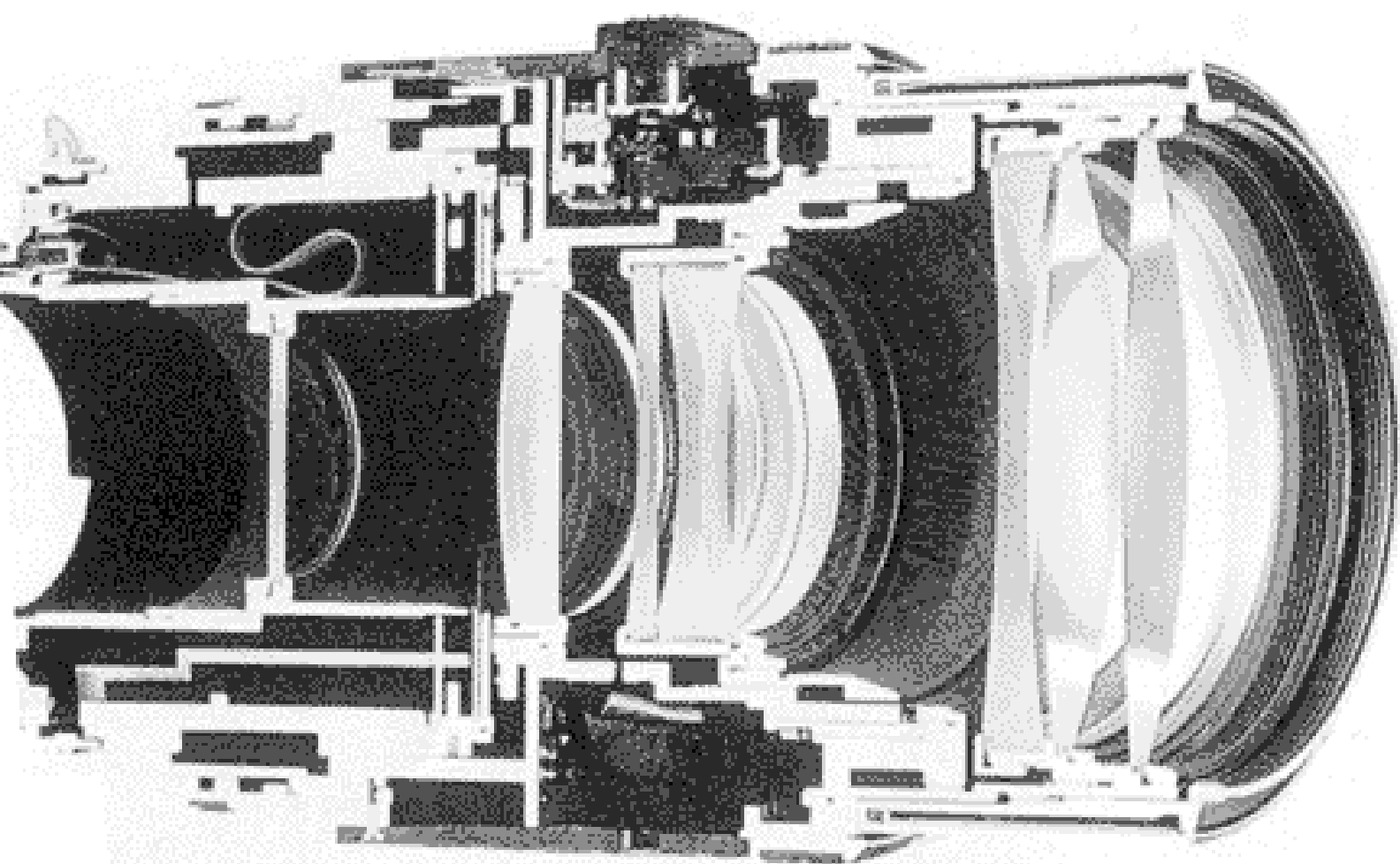


MTF

PC Micro Nikkor 85mm F2.8D















m 00-5 10-3 5-2
ft 00-17 32-10 16-7

FULL

32 22 16 11 8





























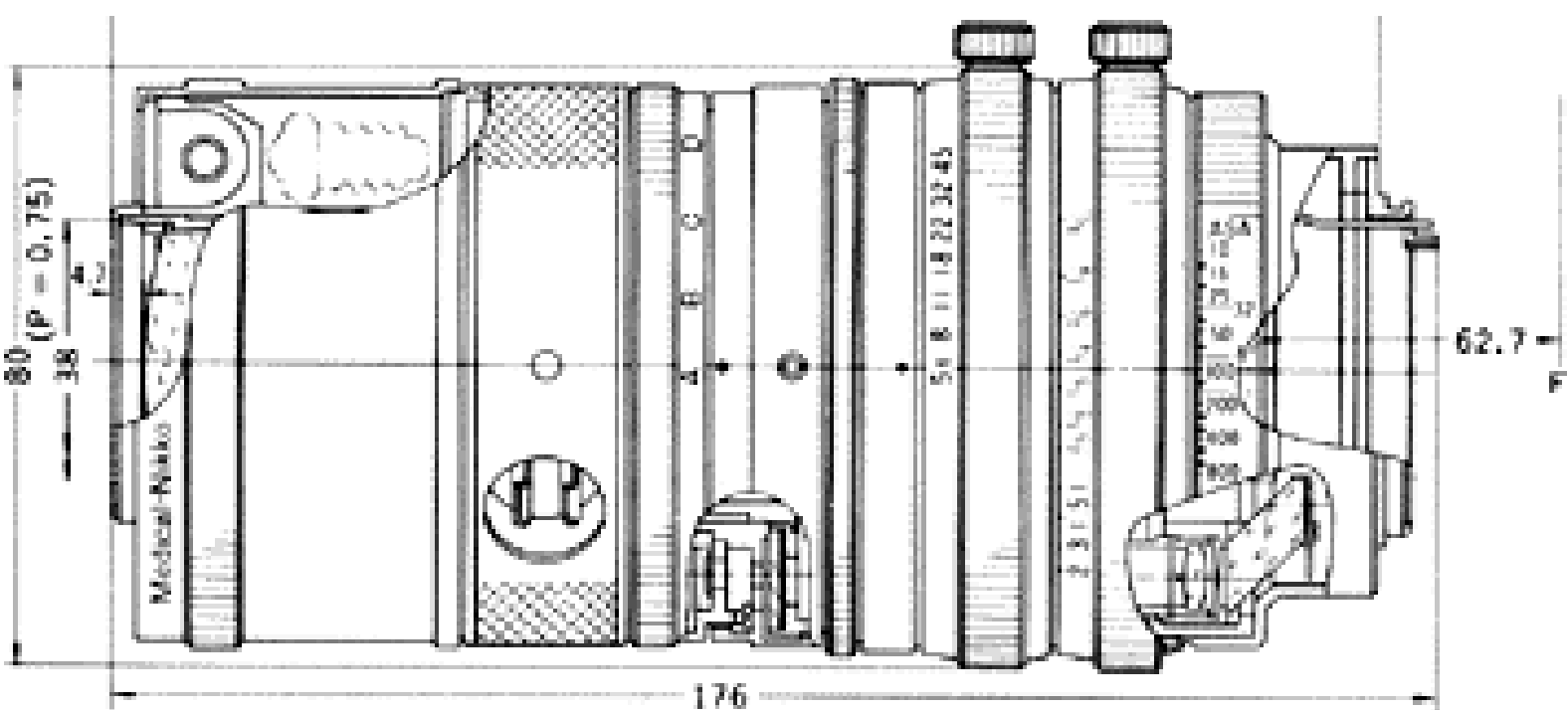




Film Speed
ASA scale



Hidden In this
picture









Reproduction ratio	Combination of lenses	Distance of subject from front surface of lens		Subject field	
		(inch)	(mm)	(inch x inch)	(mm x mm)
1/15X	Master lens	10' 11.89"	3,350	14.17 x 21.26	360 x 540
1/8X	1/8X + Master lens	5' 10.08"	1,780	7.56 x 11.34	192 x 288
1/6X	1/6X + Master lens	4' 4.64"	1,337	5.67 x 8.50	144 x 216
1/4X	1/4X + Master lens	2' 11.04"	890	3.78 x 5.677	96 x 144
1/3X	1/4X + 1/6X + Master lens	2' 1.0"	635	2.72 x 4.06	69 x 103
1/2X	1/2X + Master lens	1' 5.32"	440	1.89 x 2.83	48 x 12
2/3X	1/2X + 1/4X + Master lens	1' 0.72"	323	1.38 x 2.09	35 x 53
1X	1X + Master lens	8.66"	220	0.94 x 1.42	24 x 36
1.5X	1X + 1/2X + Master lens	5.98"	152	0.67 x 0.98	17 x 25
2X	2X + Master lens	4.17"	106	0.47 x 0.71	12 x 18
3X	2X + 1X + Master lens	2.76"	70	0.33 x 0.50	8.4 x 12.6

Marking	Film speed ASA (DIN)	
	Black & white	Color
A	32 (16) or lower	64 (19) or lower
B	40 (17) – 200 (24)	80 (20) – 400 (27)
C	250 (25) or higher	500 (28) or higher

Caution: The camera is provided with a body earth. To avoid receiving an electric shock when using the Nikon F, attach the safety cover on the camera accessory shoe so that the photographer's hand will not touch the synch contact near the rewind crank.

Black & white	Color	1/15	1/8	1/6	1/4	1/3	1/2	2/3	1	1.5	2	3
4 (7)	8 (10)											
5 (8)	10 (11)											
6.4 (9)	12 (12)											
8 (10)	16 (13)											
10 (11)	20 (14)											
12 (12)	25 (15)											
16 (13)	32 (16)											
20 (14)	40 (17)											
25 (15)	50 (18)											
32 (16)	64 (19)											
40 (17)	80 (20)											
50 (18)	100 (21)											
64 (19)	125 (22)											
80 (20)	160 (23)											
100 (21)	200 (24)											
125 (22)	250 (25)											
160 (23)	320 (26)											
200 (24)	400 (27)											
250 (25)	500 (28)											
320 (26)	650 (29)											
400 (27)	800 (30)											
500 (28)												
650 (29)												
800 (30)												

The range of film speed that can be used varies with the chosen magnification ratio.











Nikon

MADE IN JAPAN







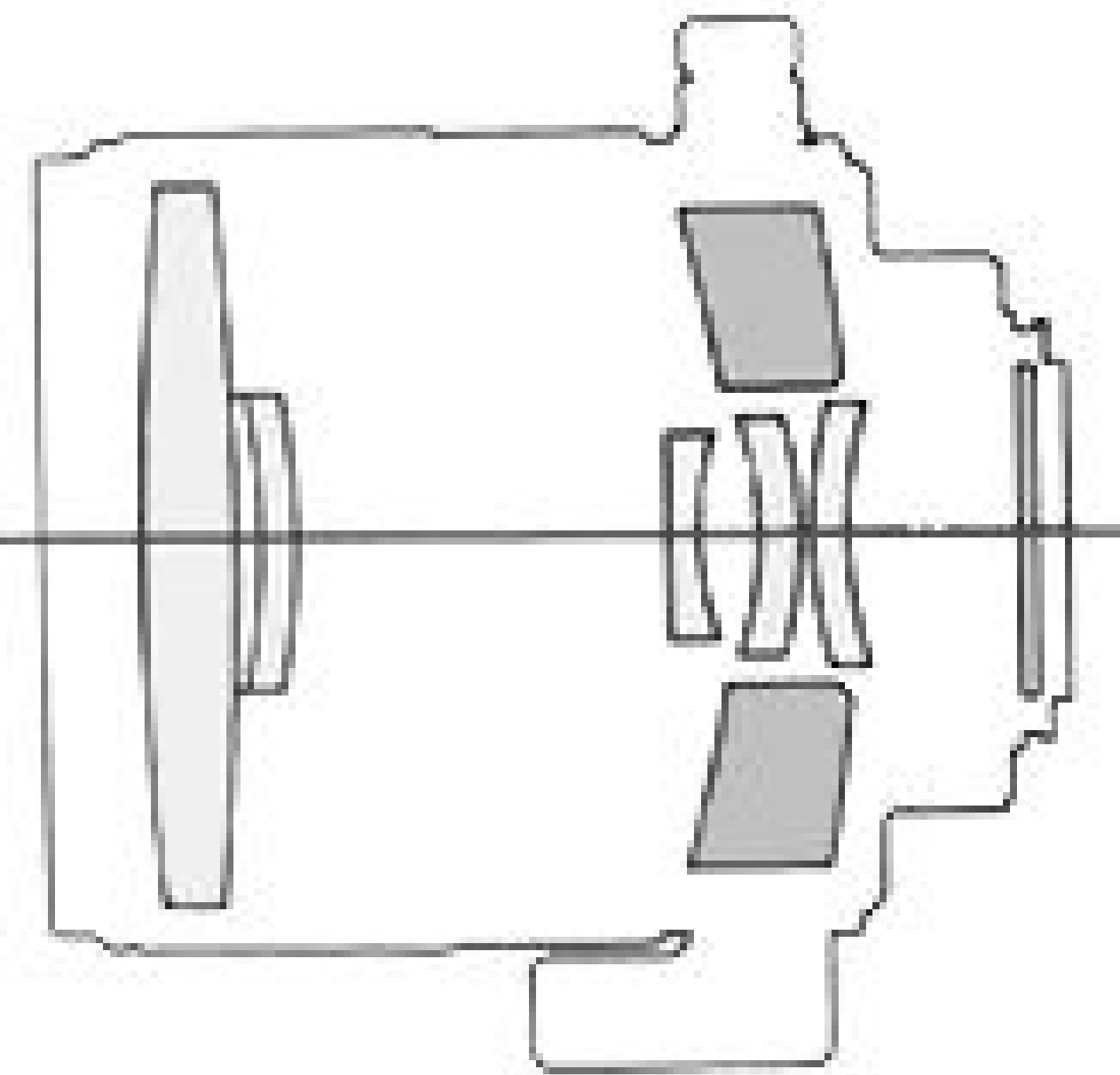










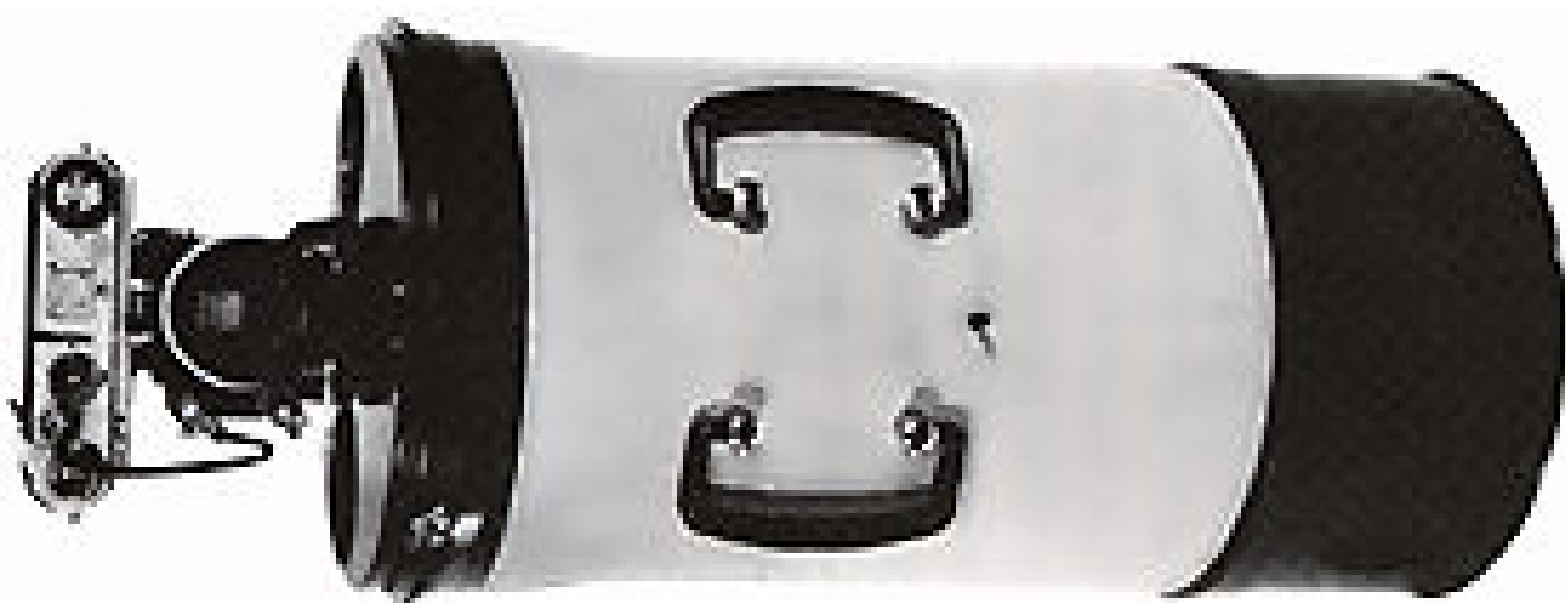


Nikon

HN-27

Reflex-NIKKOR























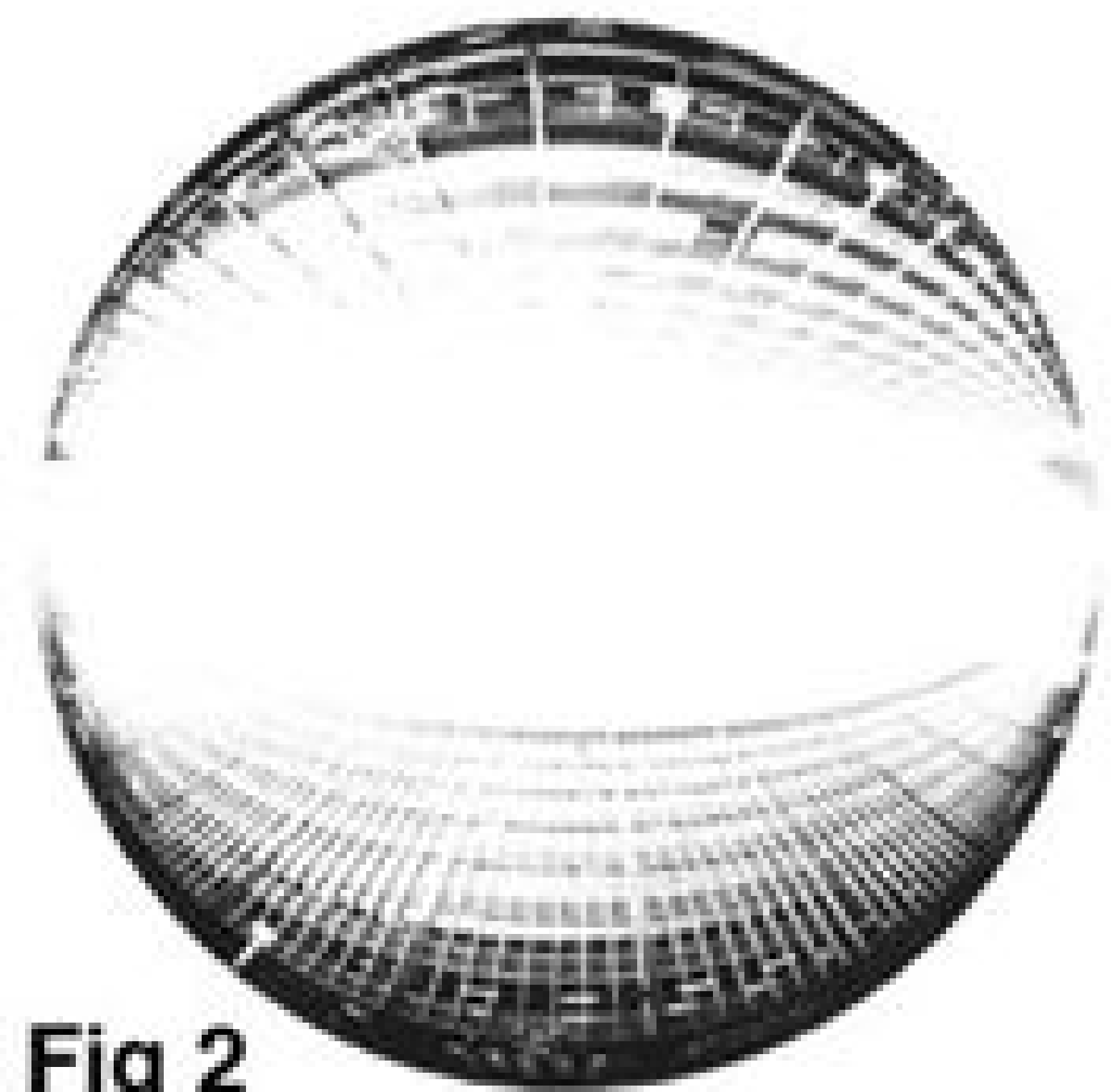


Fig 2

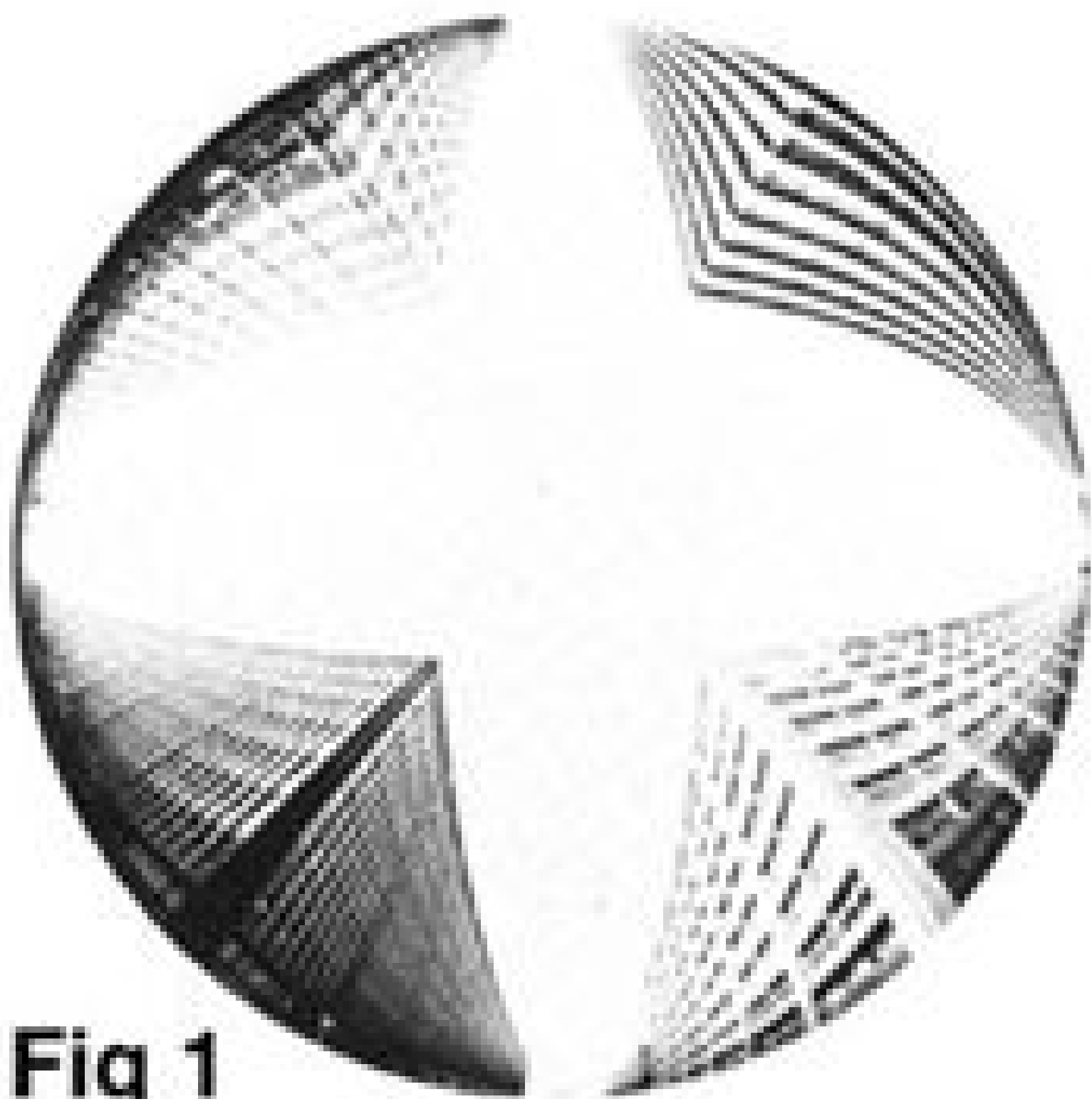


Fig 1











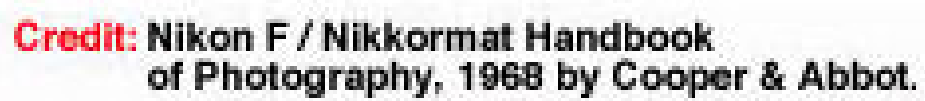
Fisheye-NIKKOR 1:5.6 f=10mm 180°-OP

UV NIKKOR 1:4 $f = 55\text{mm}$ (Disc.)



Credit: Nikon F / Nikkormat Handbook
of Photography, 1968 by Cooper & Abbot.





Credit: Nikon F / Nikkormat Handbook
of Photography, 1968 by Cooper & Abbot.

Type: 3 groups of 3 elements

Apertures: 4~32

Diaphragm system: Automatic

Focusing range: 1.2—Inf.

Angle of view: Diagonal: 43°

Horizontal: $36^{\circ} 10'$

Vertical: $24^{\circ} 40'$

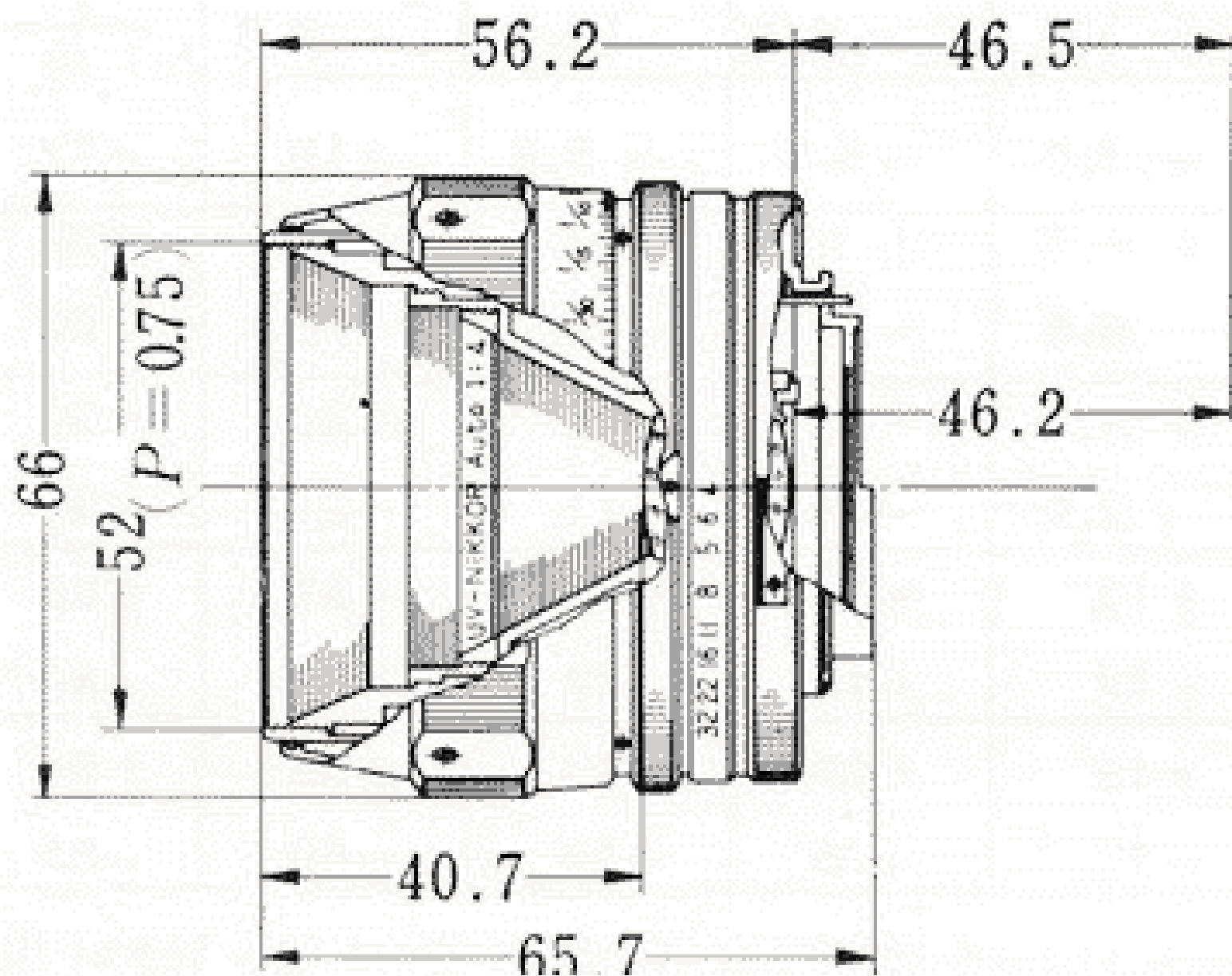
Focusing screens: Rec.: F, J, A

Also use: B, E

Wave length for color balance compensation: 300mu—400mu

Attachment/filter size: 52mm (P=0.75)

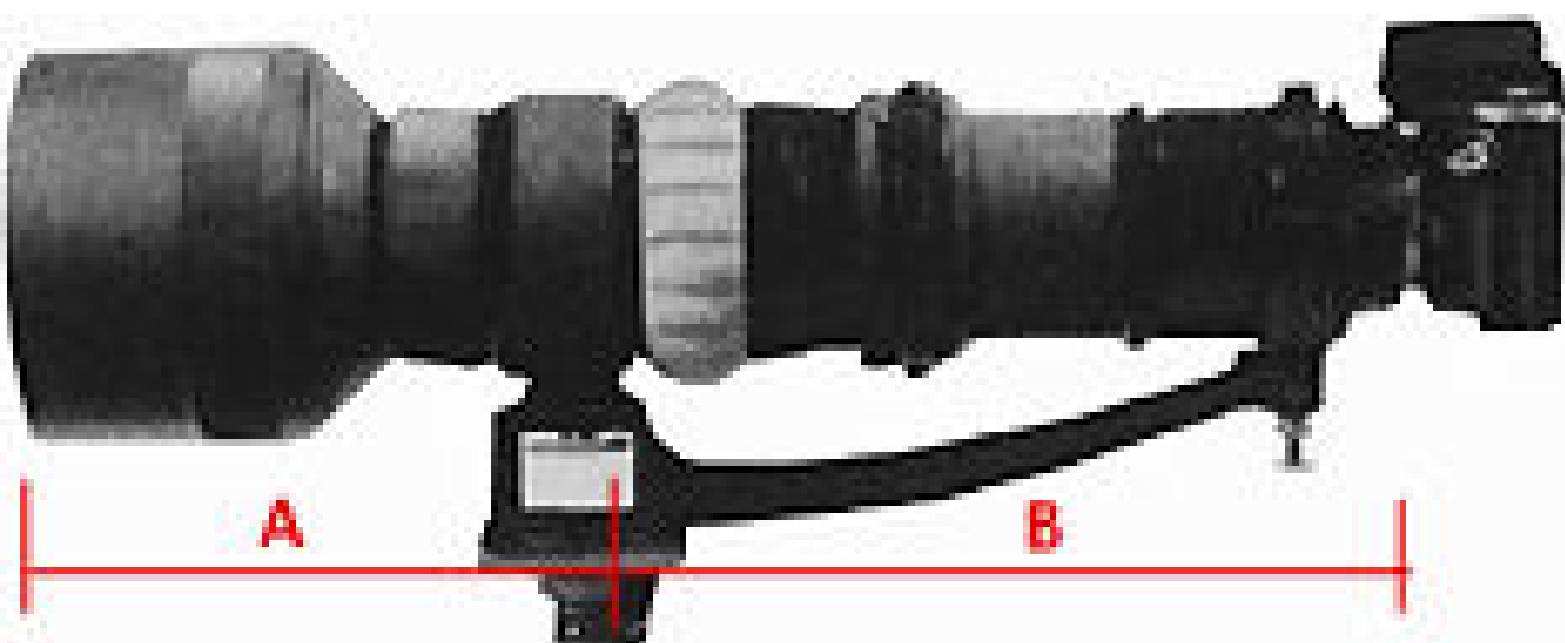
Weight: 230g (8 oz.)



Dimensions of UV Nikkor 1:4 $f=55\text{mm}$.

Credit: Nikon F / Nikkormat Handbook
of Photography, 1968 by Cooper & Abbot.











RECAP



Assembling the Bearing Unit

To order the balls with diameters of different axial lengths, the housing unit is built to accept a different standard ball size (see table).

To install the plate to the housing unit, first mount the ball-bearing unit on the camera and focus on infinity. An arrow on a hole (black) is used and turning the housing unit until the crosshair image appears sharp. Then place the plate on the plate around the housing unit and adjust it so that the white mark (4) appears against the white top on the housing unit. Turn the plate clockwise using the four screws fixed on the housing unit. There are no tapped holes on the housing unit for attaching the plate at the correct position. Two tapered pins at both ends of the plate allow it to move to compensate for thermal expansion.





11

300

150

100

71

test

1 x 400mm



5645

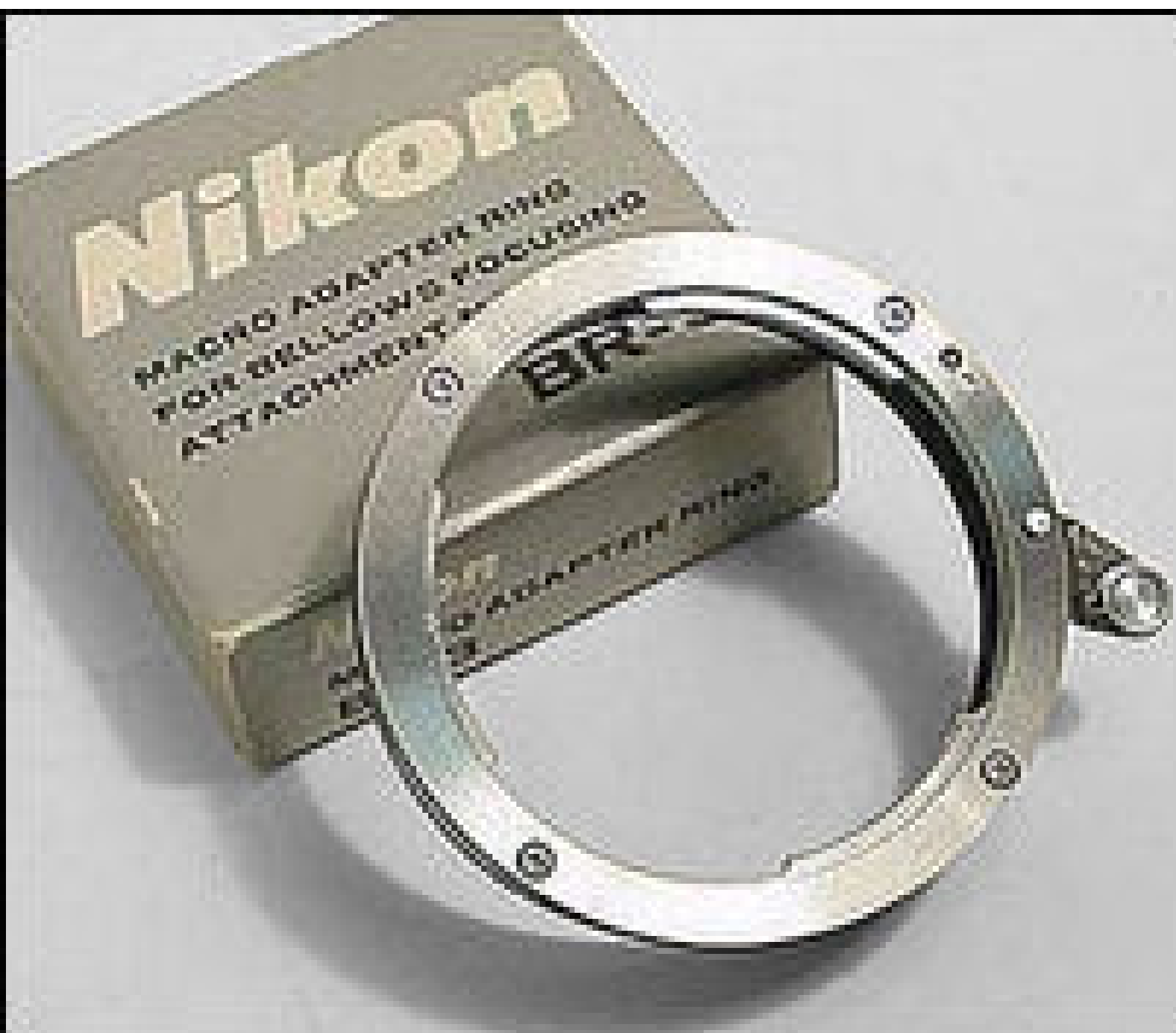
8

11

16

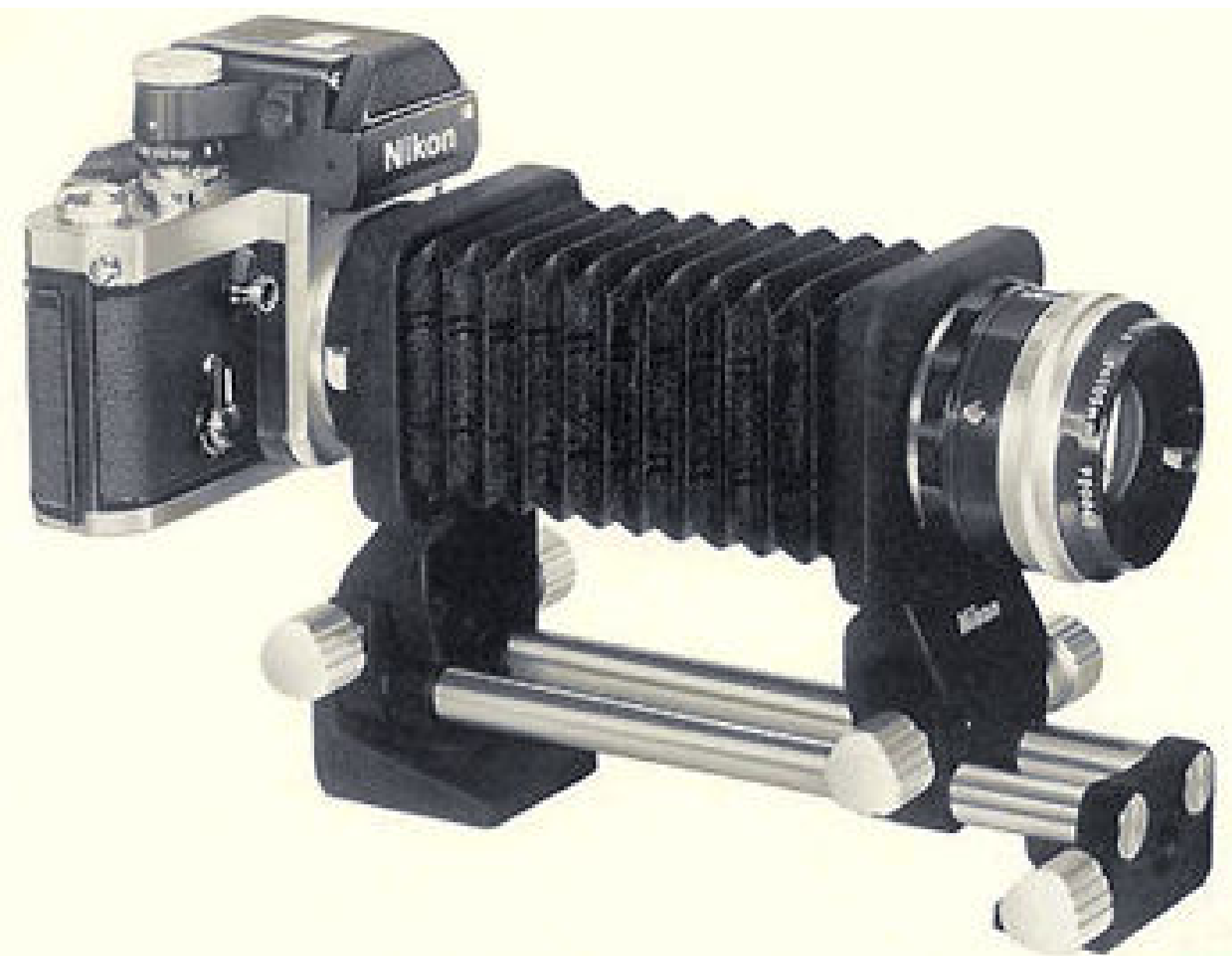
22









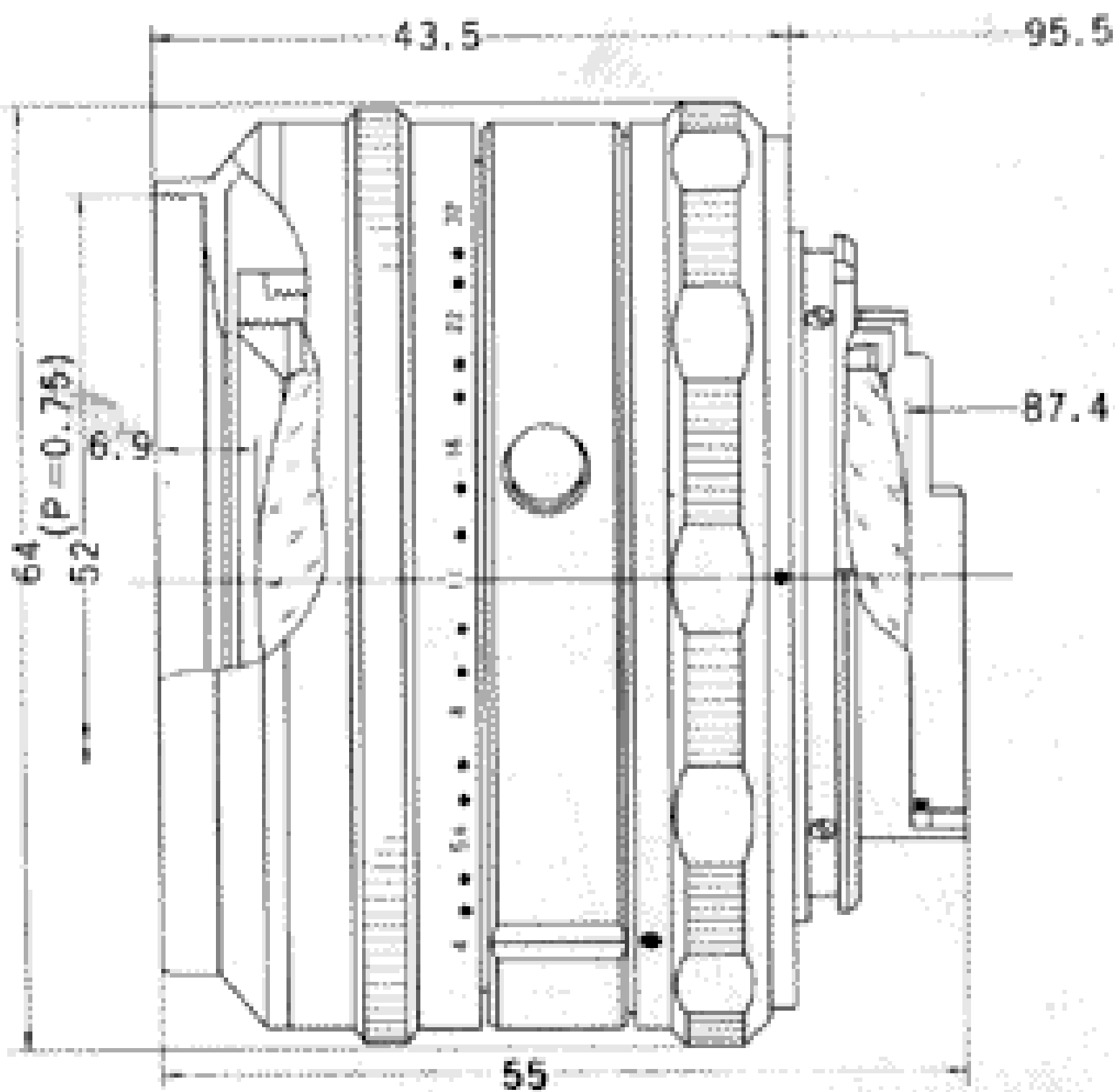














NIKKOR LENS

NIKKOR 135mm f/4

with T-Mount for Nikon Bellows Focusing Attachment















