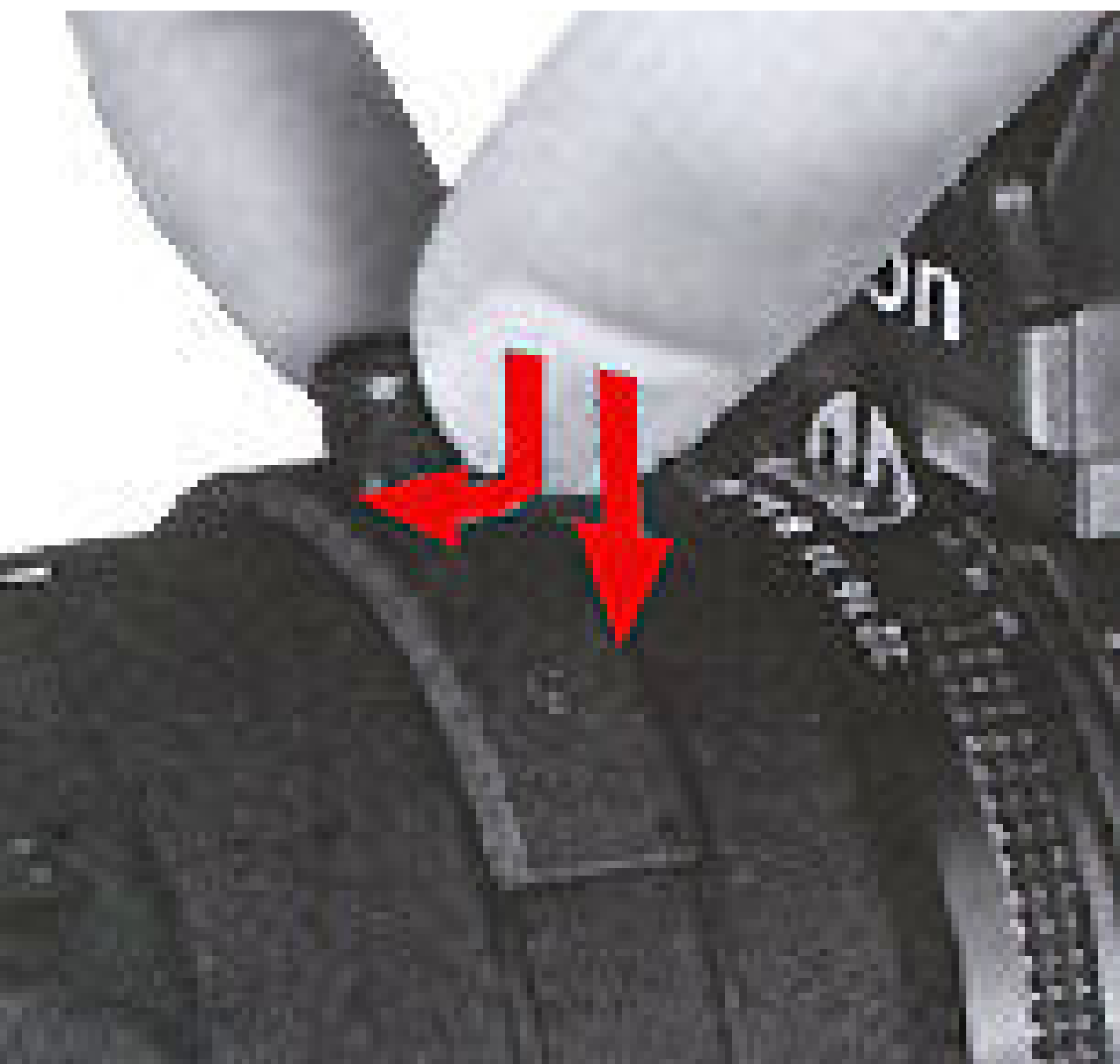






Gelatine filter holder plate



Gelatine filter holder







STEM

F.ZUIKO

AUTO-T

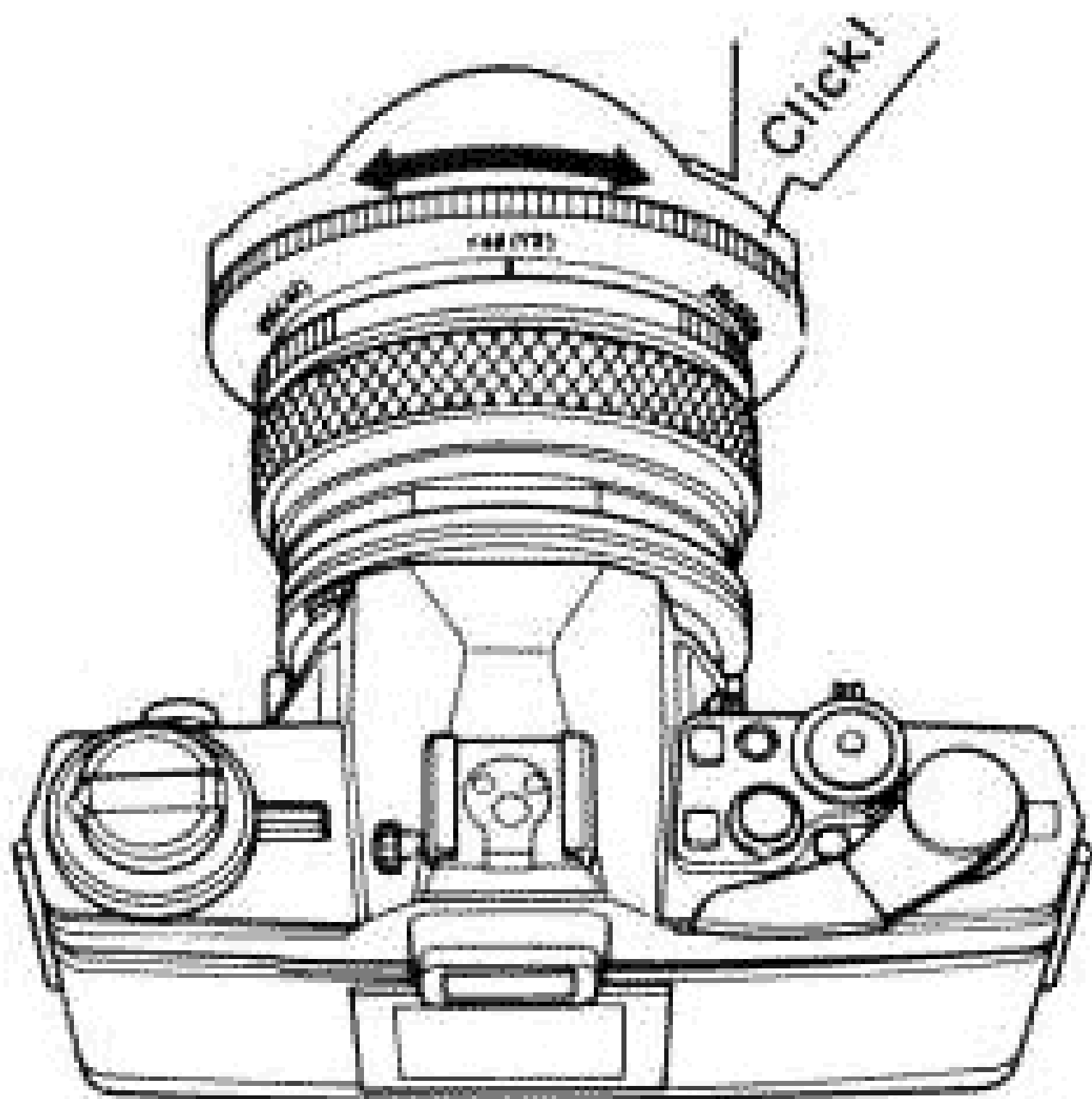
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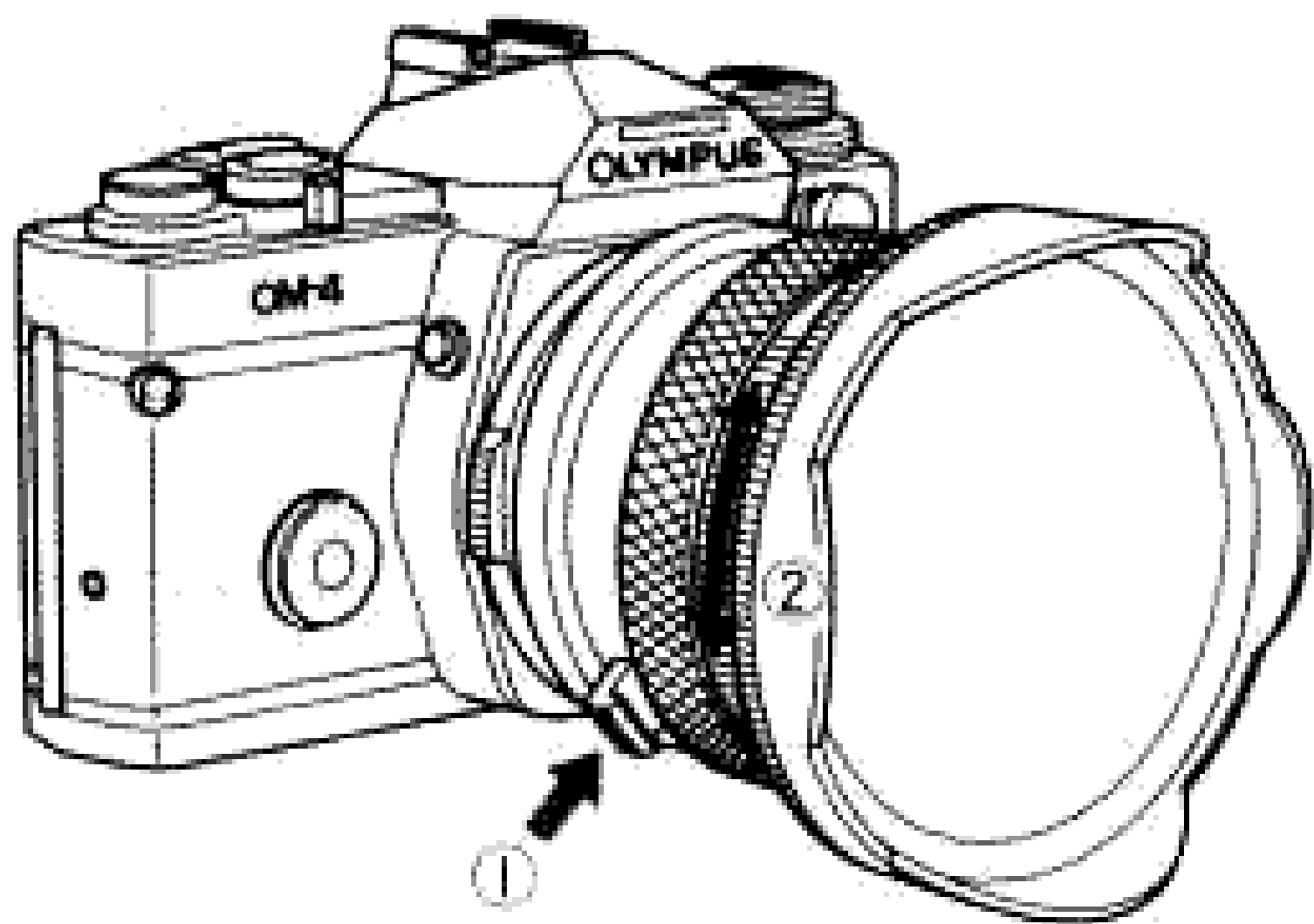
f=600mm

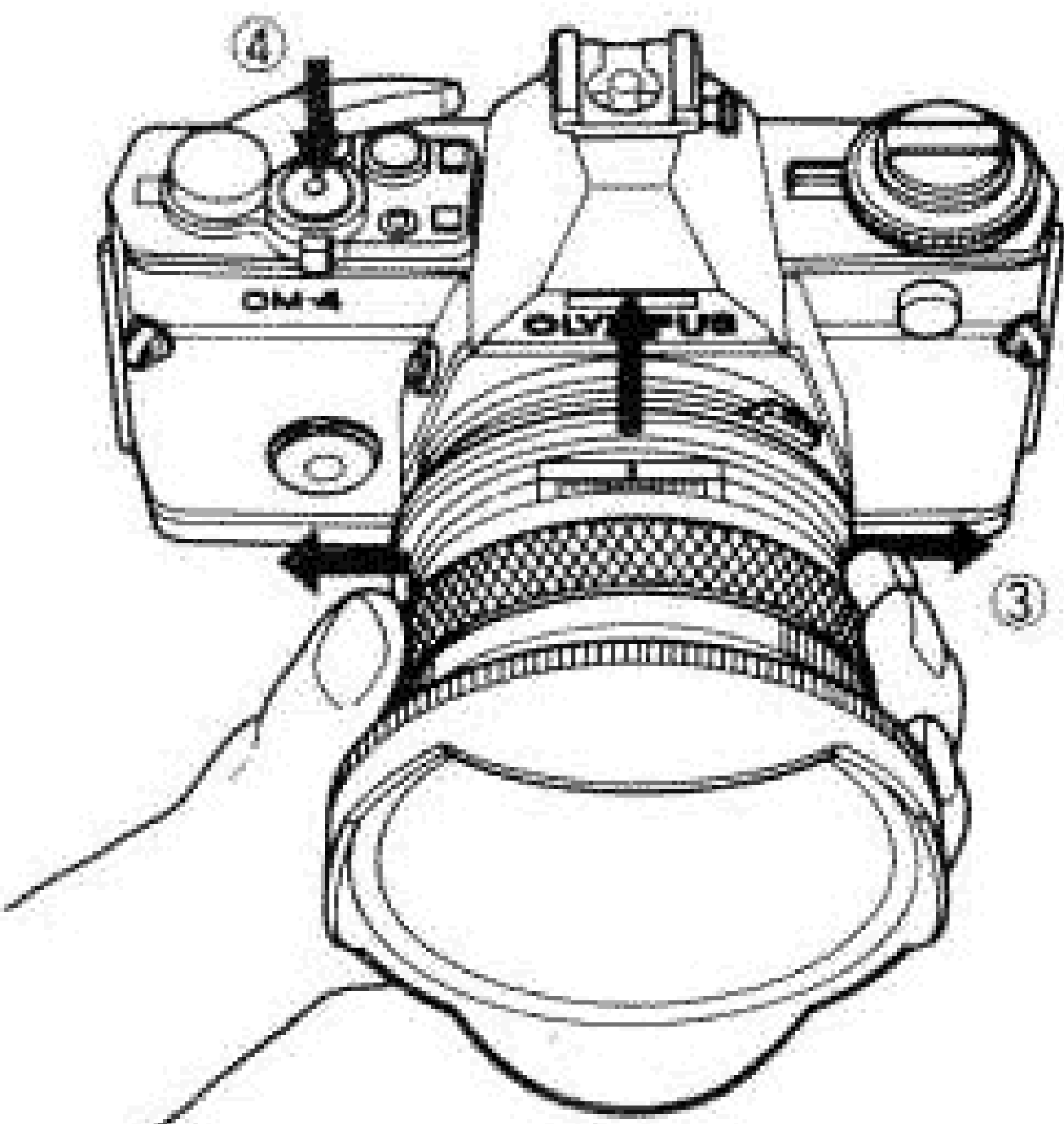




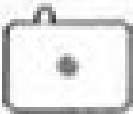
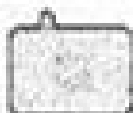
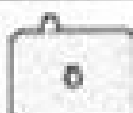








■ Compatible focusing screens

	Manual exposure	Automatic exposure	Finder exposure indication
 1-1			
 1-2			
 1-3			
 1-4			
 1-10			
 1-13			
 1-14			



■ Depth of Field Table (in meters)

Figures with ※ are engraved on the distance scale.

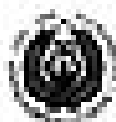
Distance scale 3) F stop 4)	Camera-to-subject distance 1)					Circle of least confusion 1/30 mm 2)			
	※0.35	0.4	※0.5	0.7	※1	2	※3	5	※∞
3.5	0.34 ~	0.38 ~	0.47 ~	0.64 ~	0.87 ~	1.49 ~	1.79 ~	2.64 ~	5.35 ~
	0.36	0.42	0.53	0.78	1.19	3.07	6.51	63.6	∞
5.6	0.33 ~	0.37 ~	0.45 ~	0.60 ~	0.80 ~	1.29 ~	1.63 ~	2.05 ~	3.35 ~
	0.37	0.43	0.56	0.84	1.35	4.63	24.8	∞	∞
8	0.32 ~	0.36 ~	0.44 ~	0.57 ~	0.74 ~	1.13 ~	1.38 ~	1.66 ~	2.39 ~
	0.38	0.45	0.59	0.91	1.58	10.5	∞	∞	∞
11	0.31 ~	0.35 ~	0.42 ~	0.53 ~	0.67 ~	0.97 ~	1.13 ~	1.31 ~	1.71 ~
	0.40	0.47	0.63	1.05	2.11	∞	∞	∞	∞
16	0.30 ~	0.33 ~	0.39 ~	0.49 ~	0.60 ~	0.80 ~	0.91 ~	1.02 ~	1.23 ~
	0.42	0.51	0.72	1.35	4.08	∞	∞	∞	∞
22	0.29 ~	0.31 ~	0.36 ~	0.44 ~	0.52 ~	0.65 ~	0.72 ~	0.78 ~	0.89 ~
	0.46	0.58	0.89	2.32	∞	∞	∞	∞	∞

■ Depth of Field Table (in feet)

Figures with ※ are engraved on the distance scale

Distance scale F stop	Camera-to-subject distance (feet)					Circle of least confusion 1/760 in.			
	※ 1.25	1.5	※ 2	4	※ 6	10	15	20	※ ∞
3.5	1.20 ~	1.42 ~	1.85 ~	3.35 ~	4.59 ~	6.52 ~	8.25 ~	9.52 ~	17.6 ~
	1.30	1.59	2.18	5.00	8.77	22.2 ~	93.5	∞	∞
5.6	1.17 ~	1.38 ~	1.77 ~	3.05 ~	4.02 ~	5.38 ~	6.49 ~	7.23 ~	11.0 ~
	1.34	1.65	2.32	5.93	12.4	94.2	∞	∞	∞
8	1.14 ~	1.34 ~	1.69 ~	2.78 ~	3.54 ~	4.54 ~	5.28 ~	5.75 ~	7.84 ~
	1.38	1.72	2.49	7.46	22.6	∞	∞	∞	∞
11	1.11 ~	1.28 ~	1.59 ~	2.48 ~	3.05 ~	3.73 ~	4.20 ~	4.49 ~	5.61 ~
	1.45	1.84	2.77	11.9	∞	∞	∞	∞	∞
16	1.06 ~	1.21 ~	1.47 ~	2.16 ~	2.56 ~	3.00 ~	3.28 ~	3.44 ~	4.04 ~
	1.56	2.04	3.34	89.4	∞	∞	∞	∞	∞
22	1.00 ~	1.12 ~	1.33 ~	1.83 ~	2.10 ~	2.36 ~	2.53 ~	2.62 ~	2.92 ~
	1.75	2.43	4.76	∞	∞	∞	∞	∞	∞





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3

BLOCK

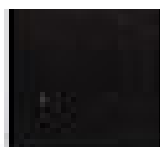
CP 12

ROW

B

SEAT

2



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WARRANTY

Waiver Pleading to Competence

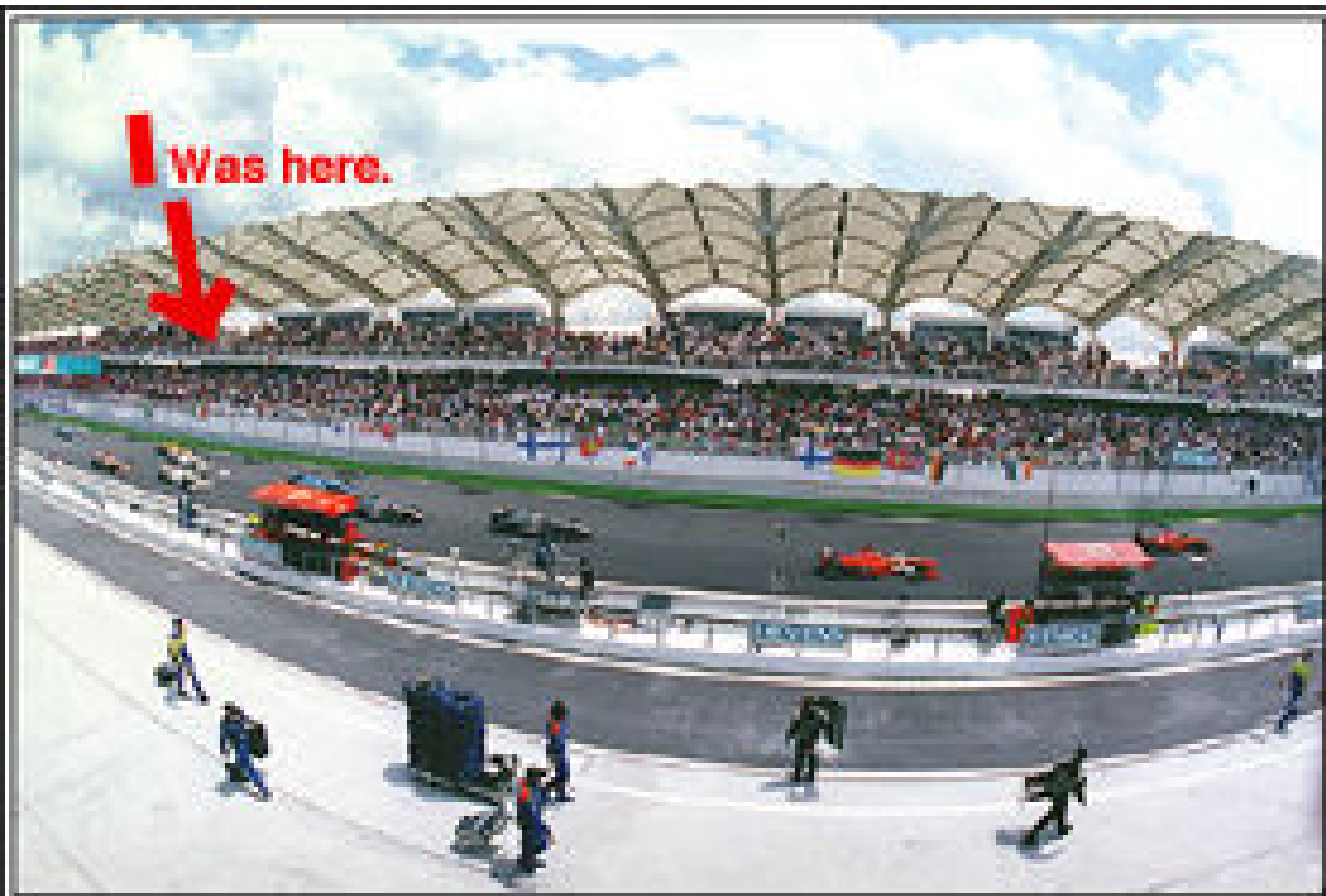
1. The Ticket holder heretofore acknowledges that attendance to the Event is at his own risk and waives all rights and claims he may now or at any time in the future have against and release SCC together with its directors, members, officers, employees, agents, servants, representatives and contractors, any participating team or driver or other organizations connected to the Event (hereinafter referred to as "the Party") from all liability.
2. The Ticket holder agrees not to sue and shall indemnify and hold harmless the Party for any personal injury, death, damage, loss of any kind suffered or sustained by the Ticket holder as a result of or in connection to the Ticket holder's presence at the Event or his use of the Ticket which is not due to gross negligence of the abovesaid Party.
3. (a) reserves the right to refuse entry at any time.
4. All tickets are subject to Conditions of Sales and Conditions of Entry.

Entry to all ticket holder's own risk. The organizers will not be responsible for damage arising out of any eventuality.

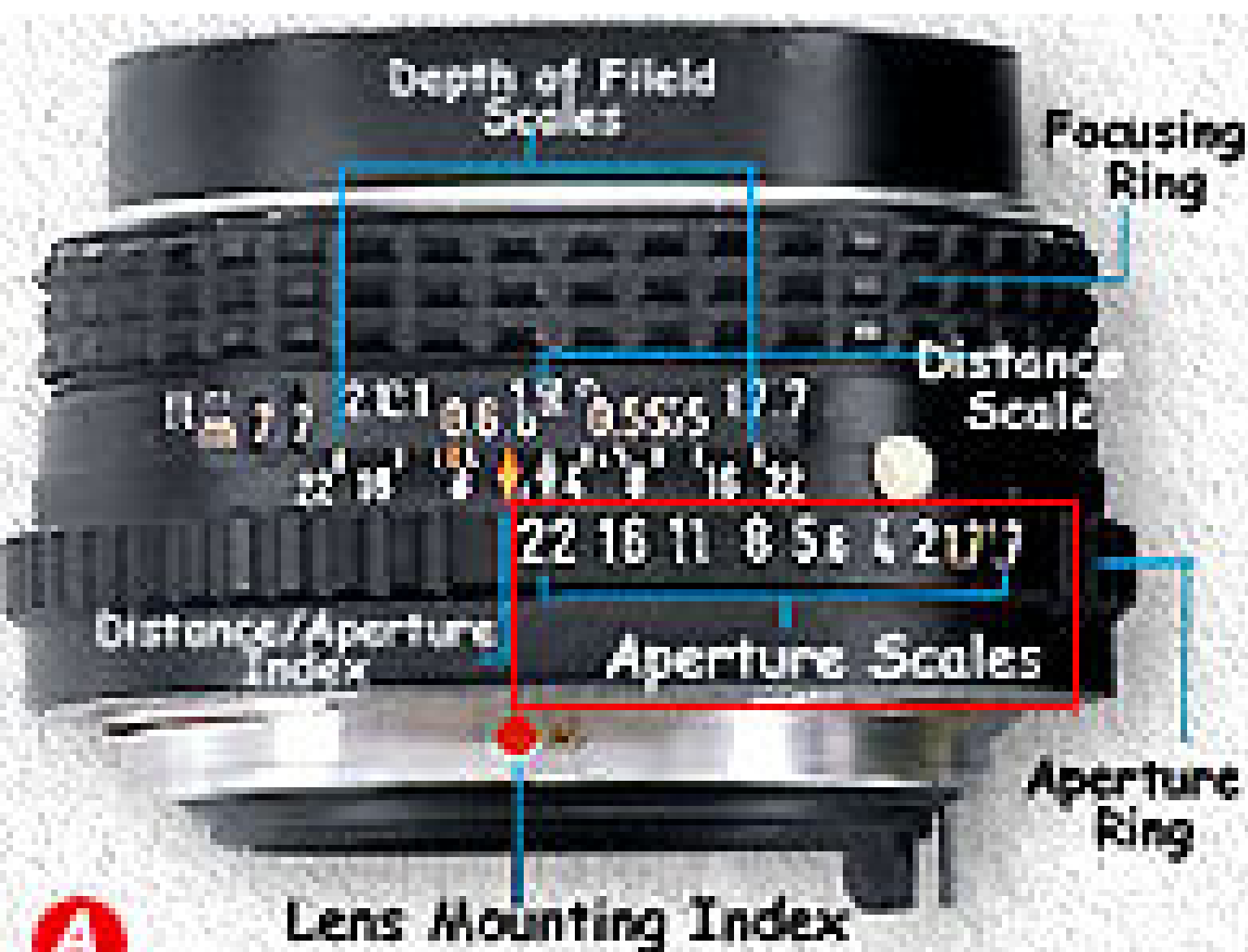
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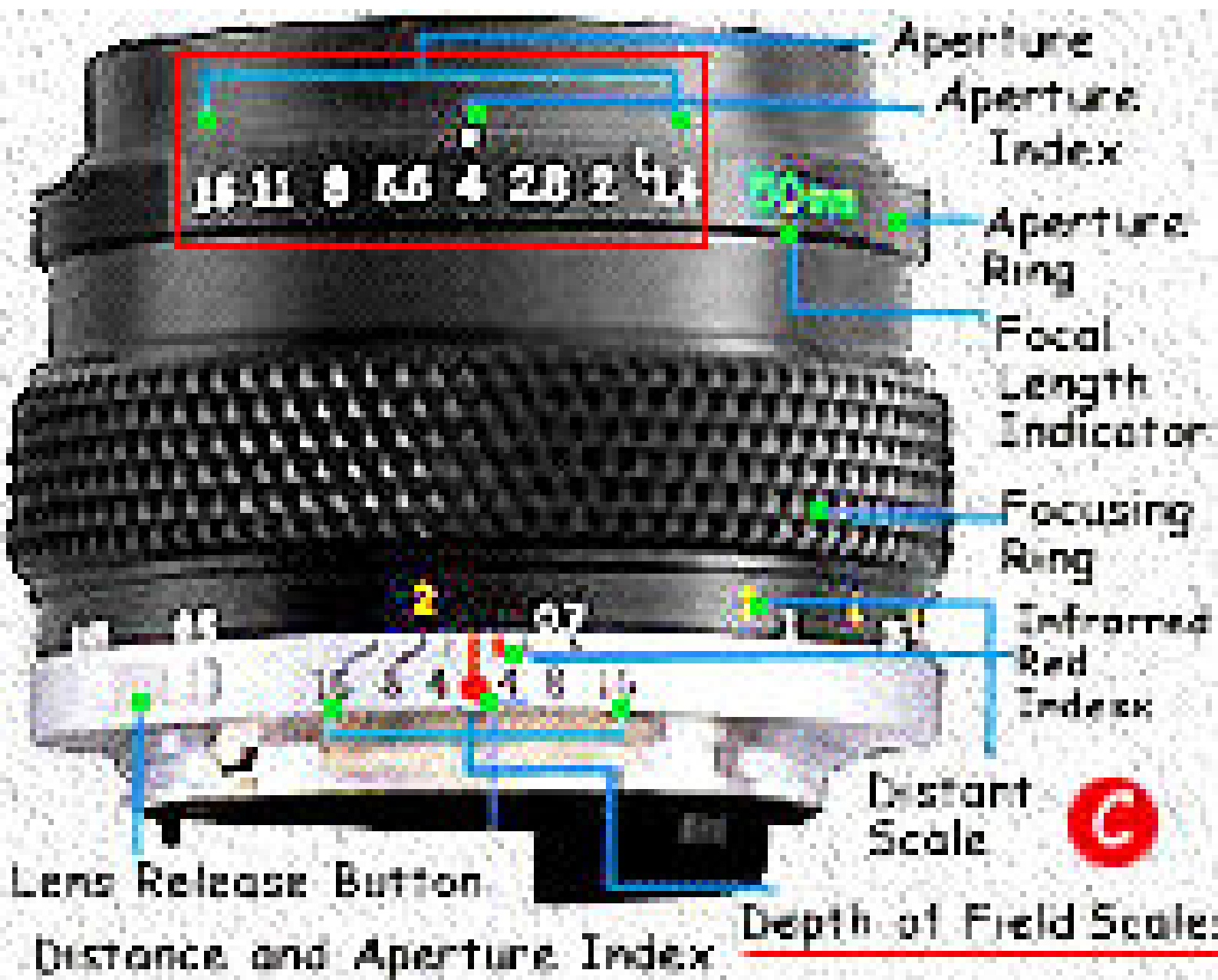






A







Maximum and minimum apertures differ depending on lens

Note: The Smaller the f-number (e.g. 1.4, f2 etc), the larger it is the aperture
Thus, allowing more light reaching the film to compensate for the
Duration of the shutter curtain travelling time







55

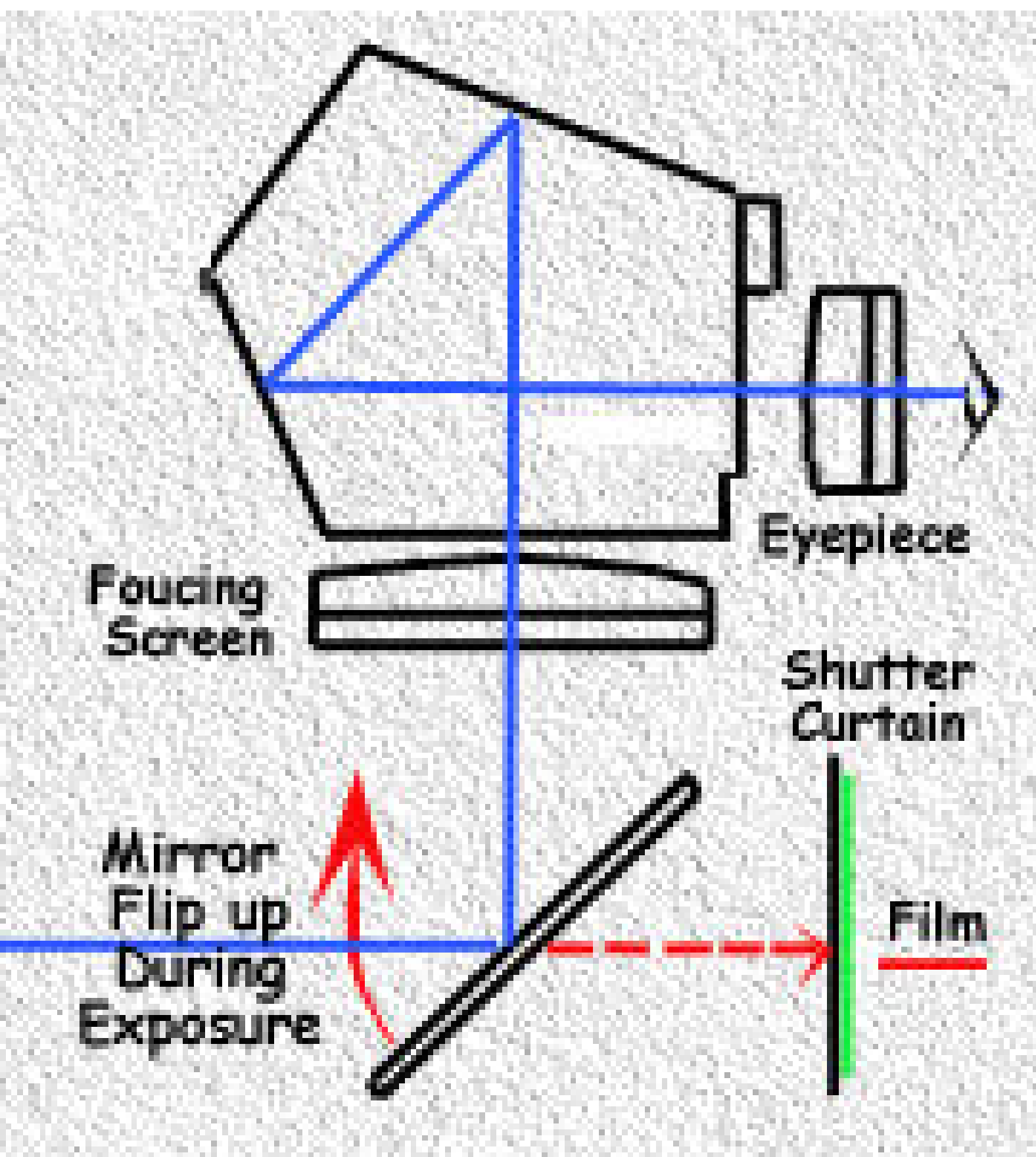
56

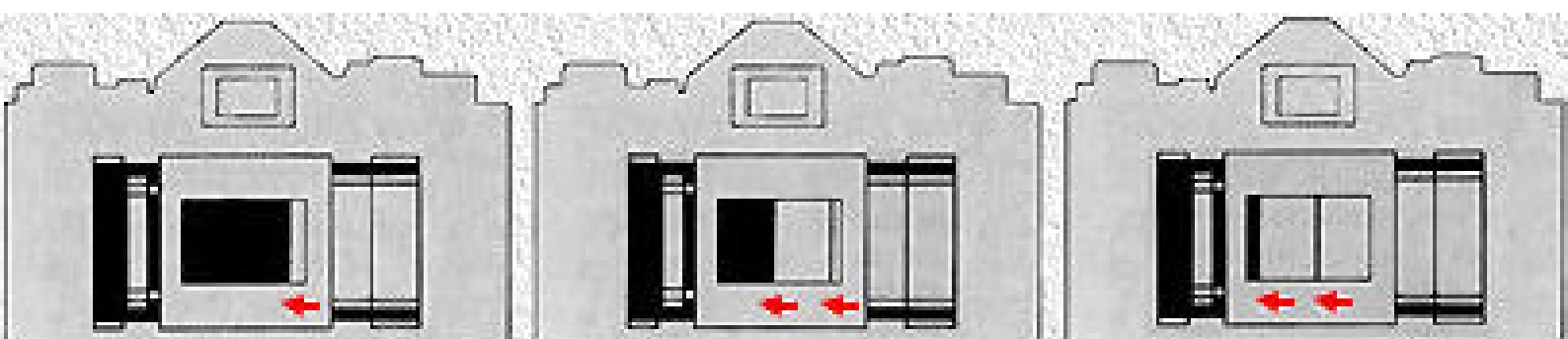


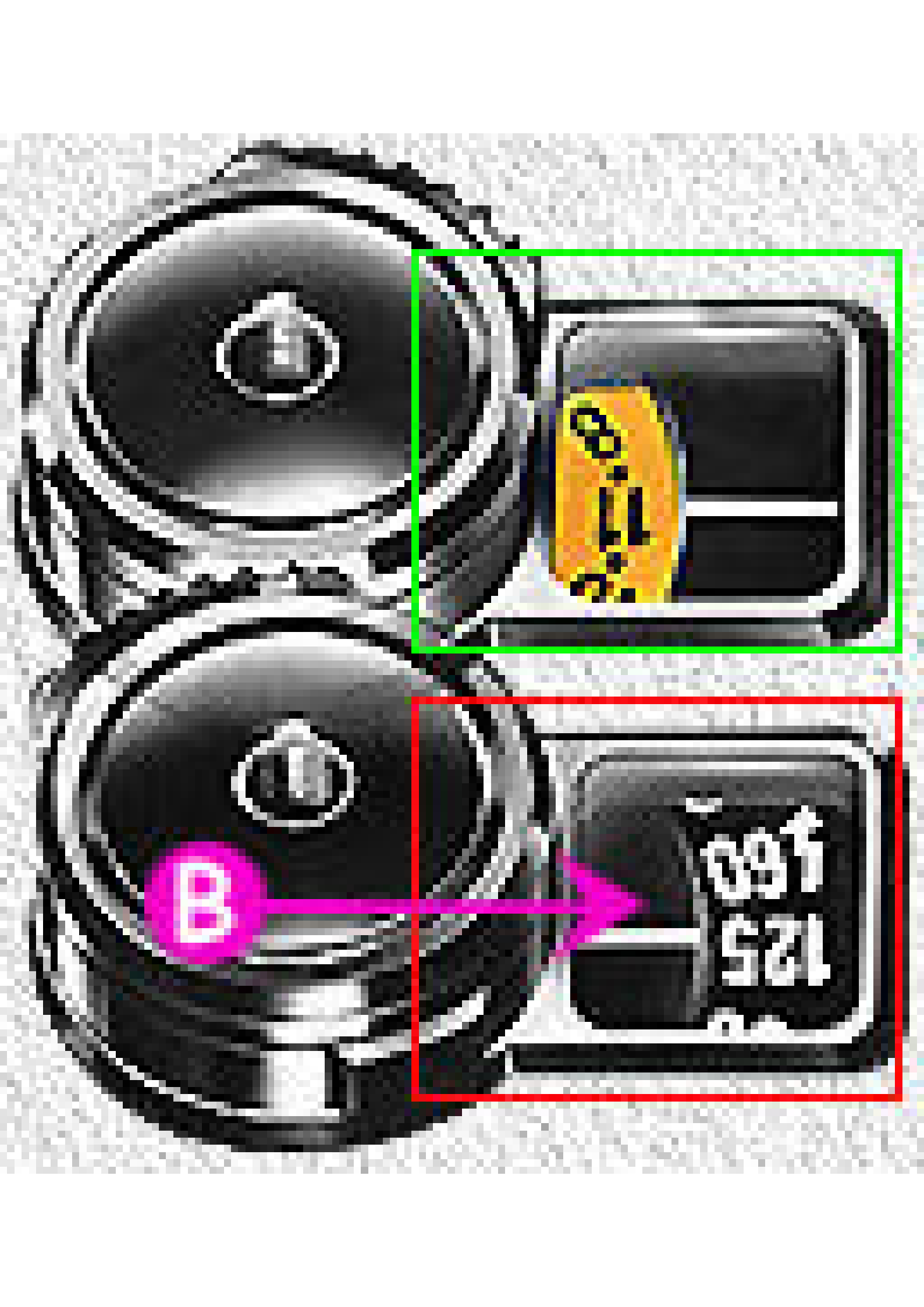




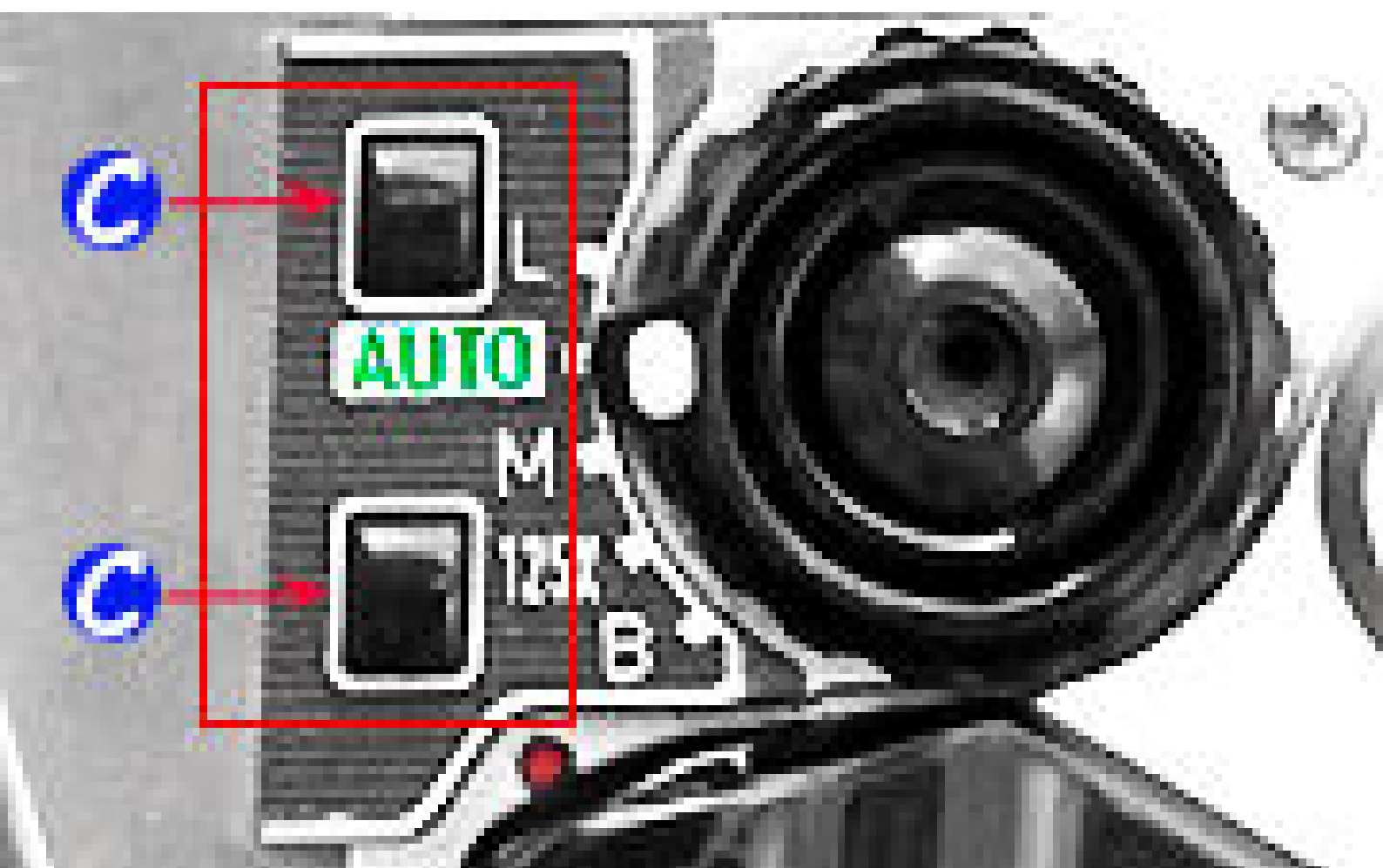








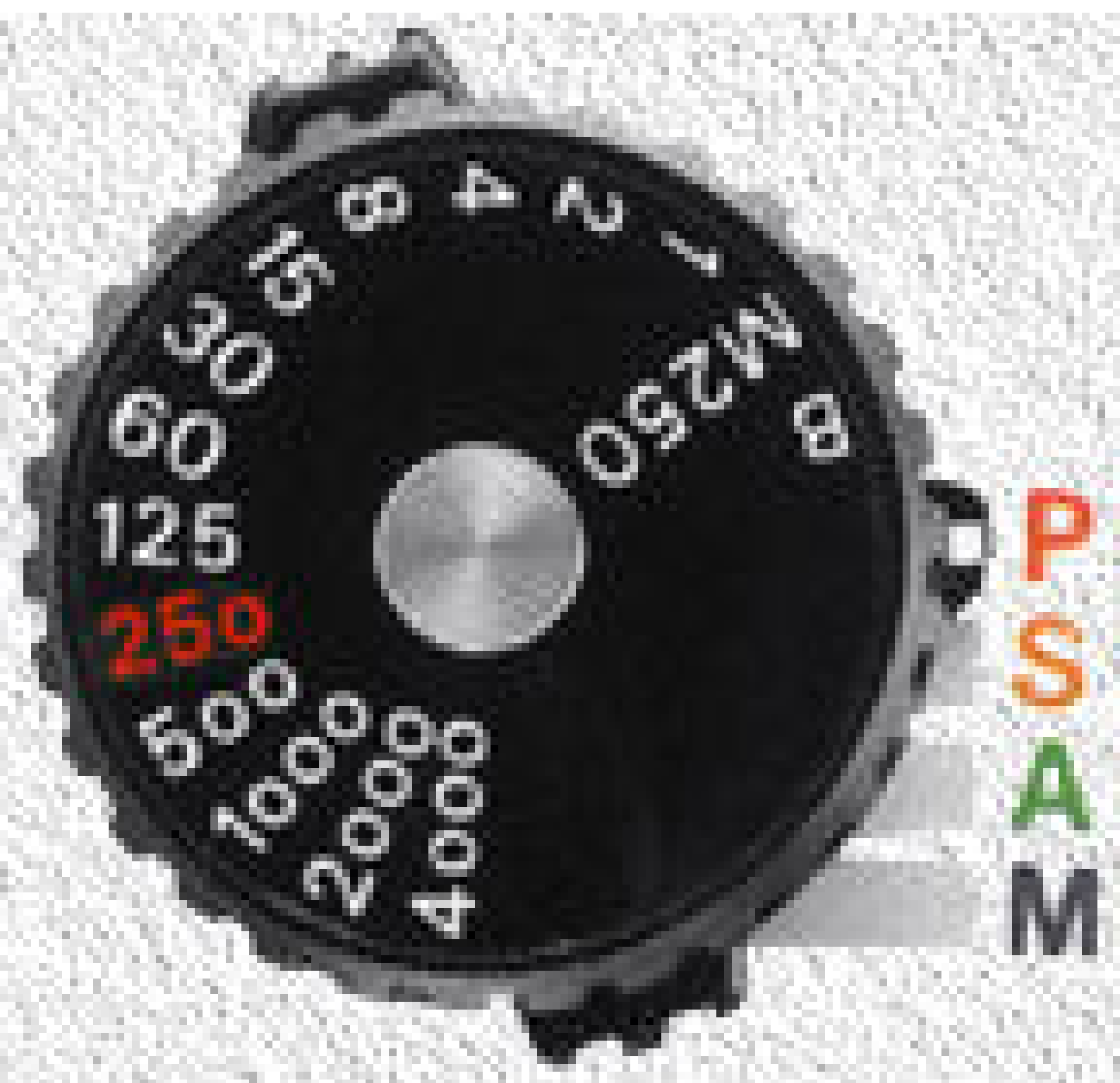


















































































USING A TRIPOD



It is convenient to adjust focus by means of the focusing ring of the lens in critical focusing on a tripod.



The focusing rail and focusing stage, both optionally available, are recommended to make fine focusing or the camera movement on a tripod easier.

9

OM



The camera can be held horizontally or vertically as you like without displacement of the lens center at all.



In case of the Auto-Macro 135mm lens, the back and forth movements of the slide ring permits focusing in a range from close-up to super telephoto distances.

For telephotography, however, compress the slide ring and extension rings most and, looking through the viewfinder, use the focusing ring of the lens for focus adjustment even for infinity (∞).

10

MAIN SPECIFICATIONS

1. **Cameras:** OM System camera bodies.
2. **Lens mount:** OM Mount bayonet type; rotation angle 70°.
3. **Lenses:** OM System lenses between f50mm and f200mm.
4. **Extension range:** 65mm to 116mm (2.6" to 4.6")
5. **Focusing:** Directly outward telescoping motion with lock at any position (locking rotation angle 15°).
6. **Automatic aperture control:** Bayonet mount for interlocking with lens diaphragm and meter coupling lever for automatic stop down control and exposure metering.
7. **Tripod mount:** Accepts any tripod, allowing photography at any angle.
8. **Magnification indication:** For automatic aperturing with Zuiko MC Auto Macro 135mm and MC Auto-1:1 Macro 80mm lenses; with scale from 65mm to 115mm in 5mm increments.
9. **Photographic range:**
 - ∞ to 0.43X . . . Zuiko MC Macro 135mm F4.5
 - 0.5X to 1.2X . . . Zuiko MC 1:1 Macro 80mm F4
 - 1X to 2X . . . Zuiko MC 1:1 Macro 80mm F4 + Close-up 80mm Macro.
10. **Size:** 70mm diam. x 65mm (2.8" diam. x 2.6")
11. **Weight:** 325g (11.5 oz.) Tripod mount: 100g (3.5 oz.)

CARE FOR USE

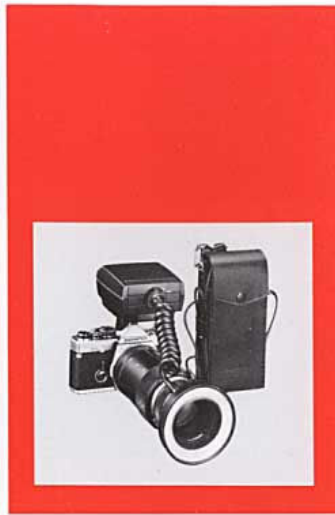


- 1) Do not move the slide ring when locked.
- 2) If incompletely locked, the extension rings may sometimes slip out of position. Be careful to securely lock before taking a picture.
- 3) Make it a point to insert the extension ring (A) into the slide ring for ascertaining the magnification indication.
- 4) Avoid pulling or pushing the extension rings by inserting fingers into the rings to avoid damage. If dust or dirt collects inside the tube clean with an air blower, etc.
- 5) After the unit is used in high humidity and temperature, wipe it clean completely.
- 6) If the unit is rapidly transmitted from low to high temperature places, it will sometime frost. Wipe it off carefully.
- 7) If frictional sound is audible by sliding the extension rings, or the built-in bearings sound when you swing the unit, it does not matter.
- 8) Do not stand the Auto Tube on its meter coupling lever or do not apply pressure upon it.
- 9) Do not move the Auto Tube while clamped on the tripod.
- 10) If pressure is applied to the tube release button while mounting on the camera the red dots on the mounts sometimes do not coincide with each other. Setting the button free, rotate the ring until the button springs up.
- 11) For use of a tripod, make sure to attach the tripod to the Auto Tube.
- 12) Do not use two Auto Tubes or more simultaneously or an Auto Tube in conjunction with extension tubes.

CHART OF PHOTOGRAPHIC RANGES (For use of various lenses in combination with the Telescopic Auto Tube)

Subject area (mm)	240		120		48		24		12		6		3	
	∞	×	∞	×	∞	×	∞	×	∞	×	∞	×	∞	×
Mag.	∞	0.1	0.2	0.5	1	2	4	8	16	32	64	128	256	512
Professional Methods	0.43X  Zuiko Macro 135mm F4.5													
	0.48X  1.2X  Zuiko MC 1:1 Macro 80mm F4													
	1X  2X  Zuiko MC 1:1 Macro 80mm F4 + Close-up Lens 80mm Macro													
	2.5X  4X  Zuiko MC Macro 38mm F3.5													
	Zuiko MC Macro 20mm F3.5  5.8X 8.3X													
Substitute Methods	0.33X  0.67X  Zuiko MC 200mm F4, F5													
	0.5X  1X  Zuiko MC 135mm F2.8, F3.5													
	0.67X  1.3X  Zuiko 100mm F2.8													
	0.77X  1.5X  Zuiko 85mm F2.8													
	1.3X  2.5X  Zuiko 50mm F1.2, F1.4, F1.8													
*  means the most extended focusing ring of the lens used.														
1.8X  2.8X  Zuiko MC Macro 50 F3.5														

13



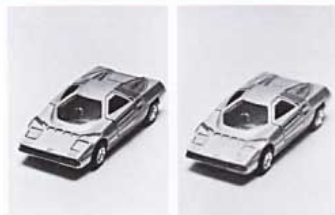
Main Features of Medical Zuiko



1. Accurate and easy autoflash exposure
The OM-2's electronic brain centrally controls all exposure data to do away with complicated calculations. It automatically shuts off the ring flash emission when the correct amount of light has reached the film surface.
2. Continuously variable magnification
By sliding the Telescopic Auto Tube 65-116, changes in magnification can be monitored continuously in the viewfinder.
3. Convenient working distance even for high image magnifications
The MC Auto Macro 135 mm lens features long working distances (37 cm - ∞), enabling the photographer to take enlarged images of a lesion without interrupting surgical procedures. The MC

14

TAKING DELIGHT IN VARIOUS TECHNIQUES



Lens aperture stop- Fully opened aperture
ped down to F45

The more the lens aperture is stopped down, the more the depth of field is increased, and so the acceptable zone of sharpness in the field.



In conjunction with the optional T10 Ring Flash 1, the Auto Tube is most recommended for photography of a subject that permits only a small working distance or requires a shadowless light illumination, even by handheld operation of the camera.



The T10 Ring Flash 1 (optional) is provided with a built-in illuminator for composition and focusing in poor lighting condition.

*As a power source for this illuminator the 6V Power Pack 2 or AC Adapter 3 is available.



In combination with the camera body OM-2 and Electronic Flash T32, the Auto Tube can be used in the TTL "off-the-film" Auto Multi-flash photography with ease.

Auto 1:1 80 mm Macro is designed to provide optimum resolution at life size.

4. Although the Macro 135 mm has a maximum speed of F4.5, it allows full-open aperture viewing as bright as F4 to facilitate focusing and composition.

5. Ring Filter POL

With the aid of the cross polarizing filter POL, the ring flash reproduces glossy surface objects, reducing undesirable annular light reflection.

6. Hand-held functionality

The compact and convenient design of the equipment ensures mobility not only for medical, but also for outdoor action photography.

7. Choice of power sources

The ring flash operates off batteries (inside the T Power-Control 1 which is mounted to the camera, or a 6 V Power Pack attached to the waist) or the AC Adapter 3.

8. Wide range of applications

Together with other modular OM System components, ring flash is useful in a wide variety of photographic situations (Recordata Back, Winder, etc.).

Cautions



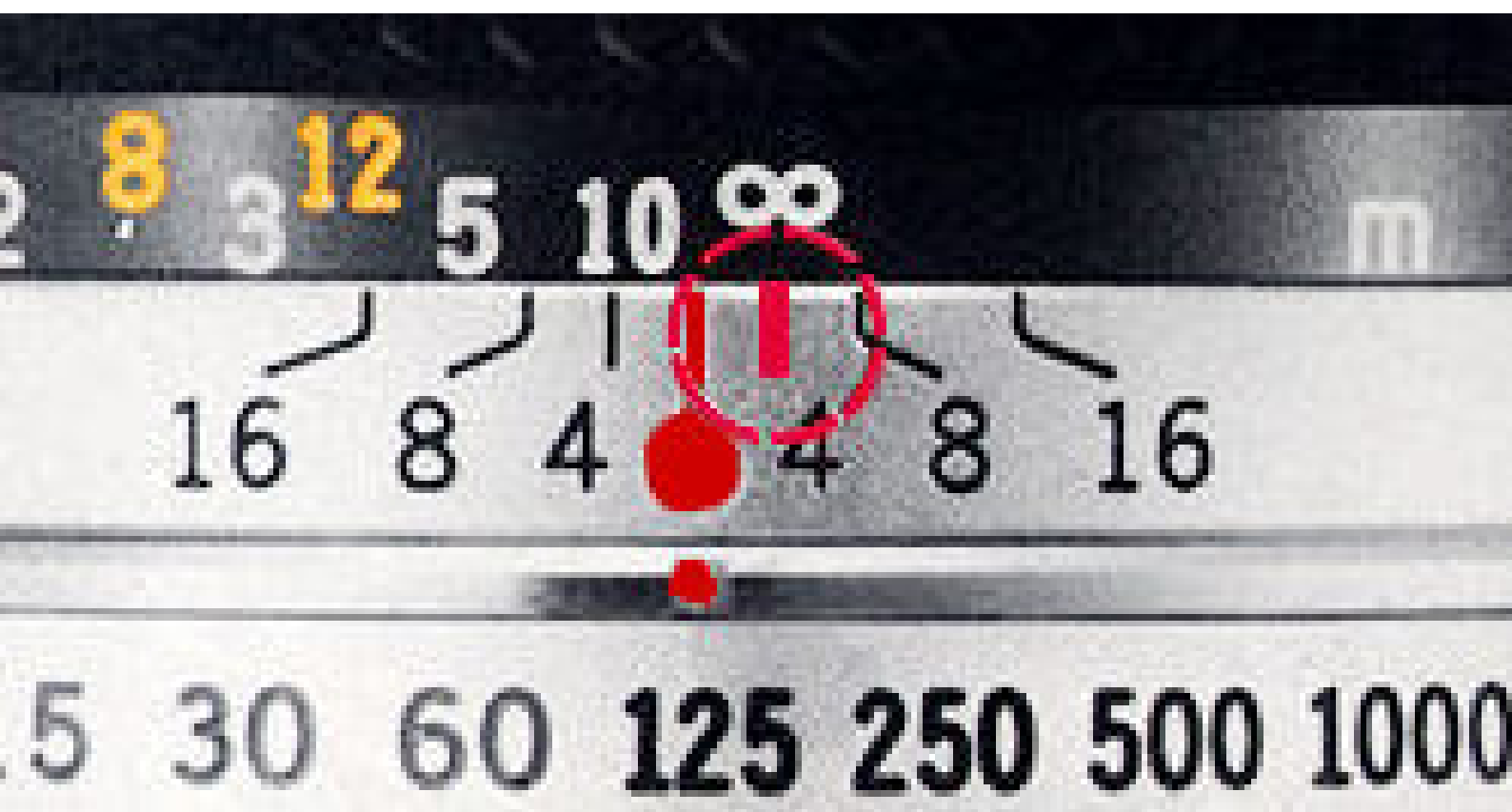
- ① The ring flash equipment does not feature explosion-free construction. NEVER use it in the presence of flammable gas.
- ② To prevent overheating, do not cover the AC Adapter 3 with a cloth, etc.
- ③ Depending on the film used, the Ring Filter POL can cause a slight change in coloration (gold tends to turn out bluish; and red, bright red).
- ④ The POL cuts down light by 3 – 6 stops, so open up the lens aperture accordingly to compensate for the light loss.

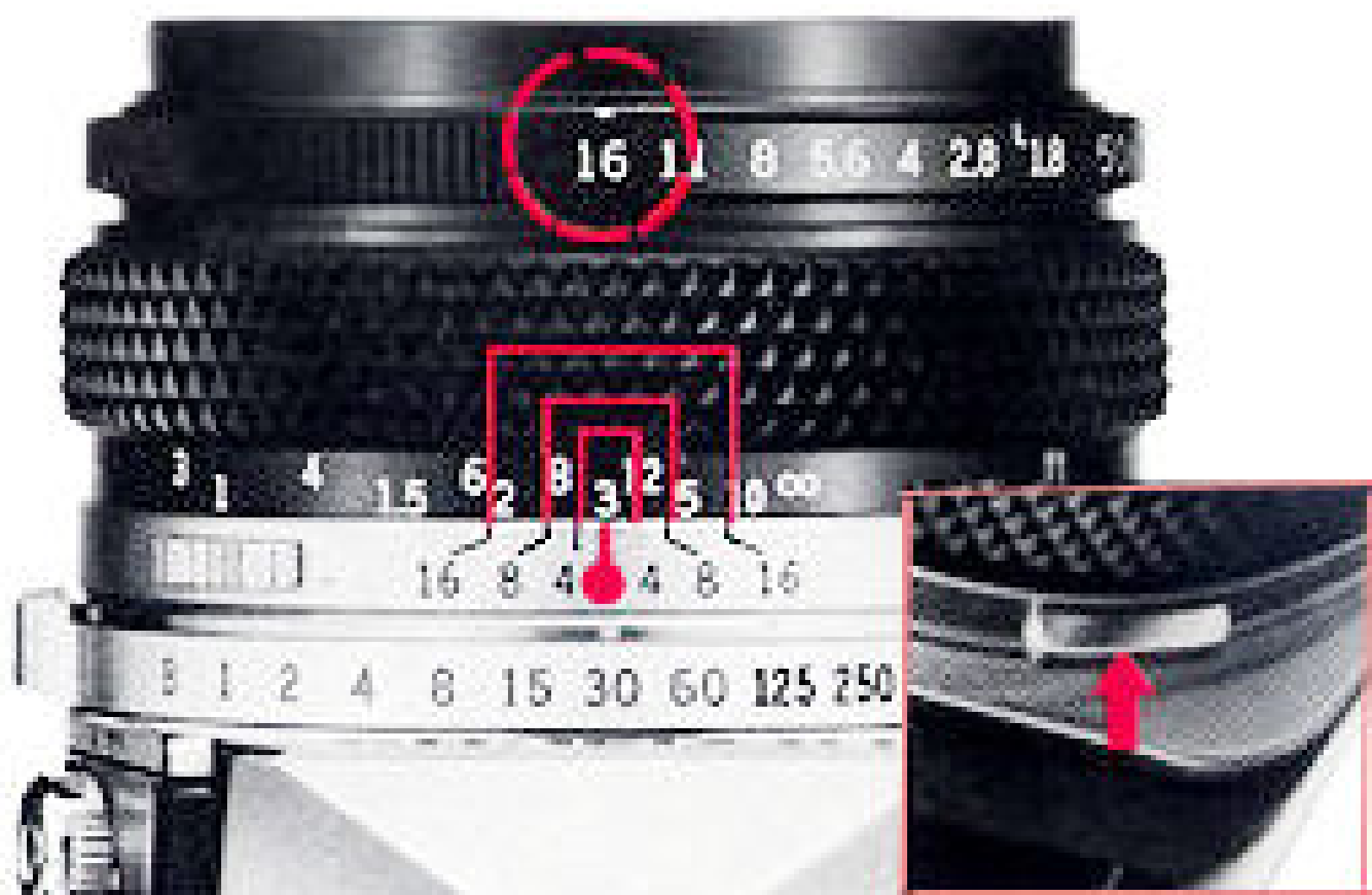




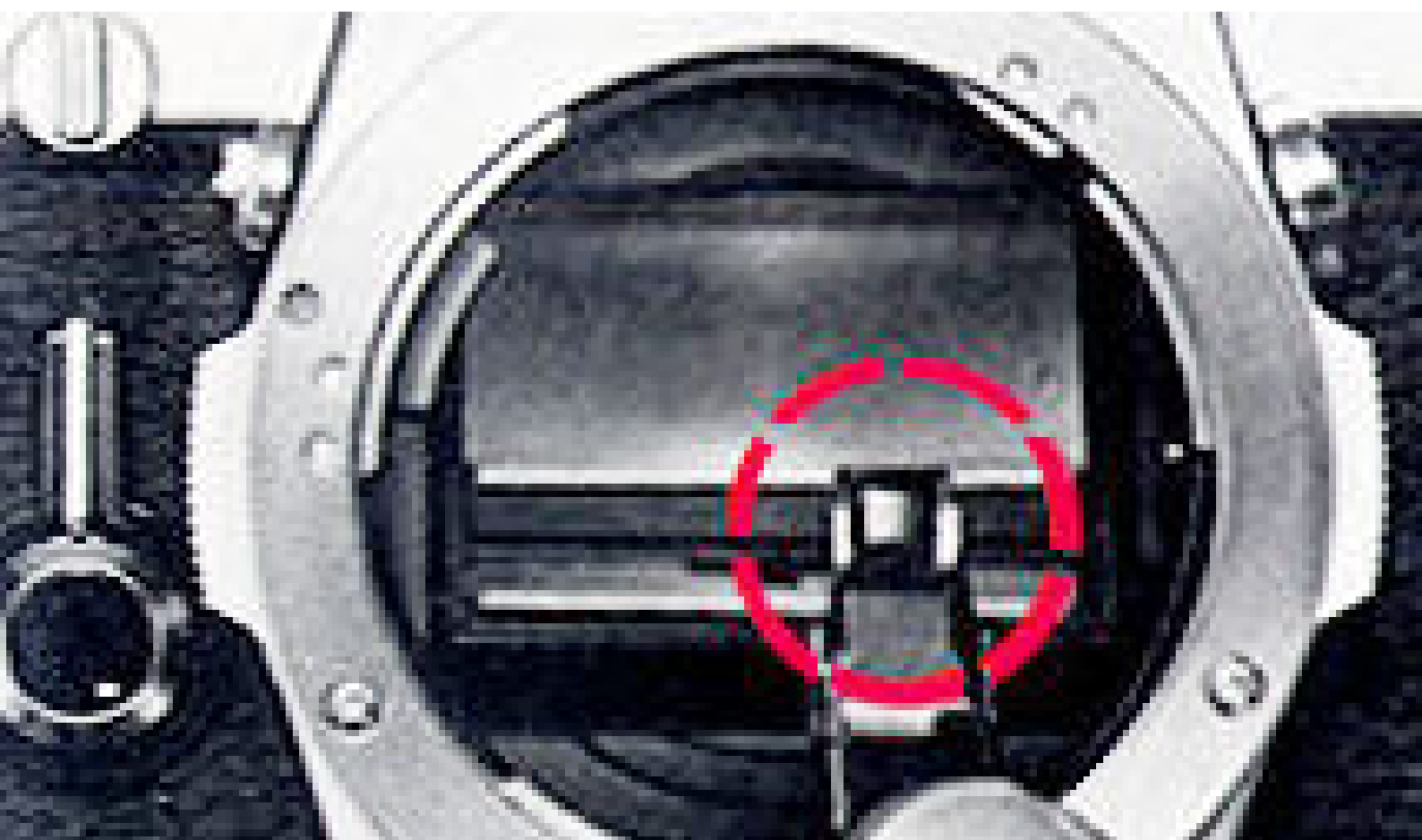


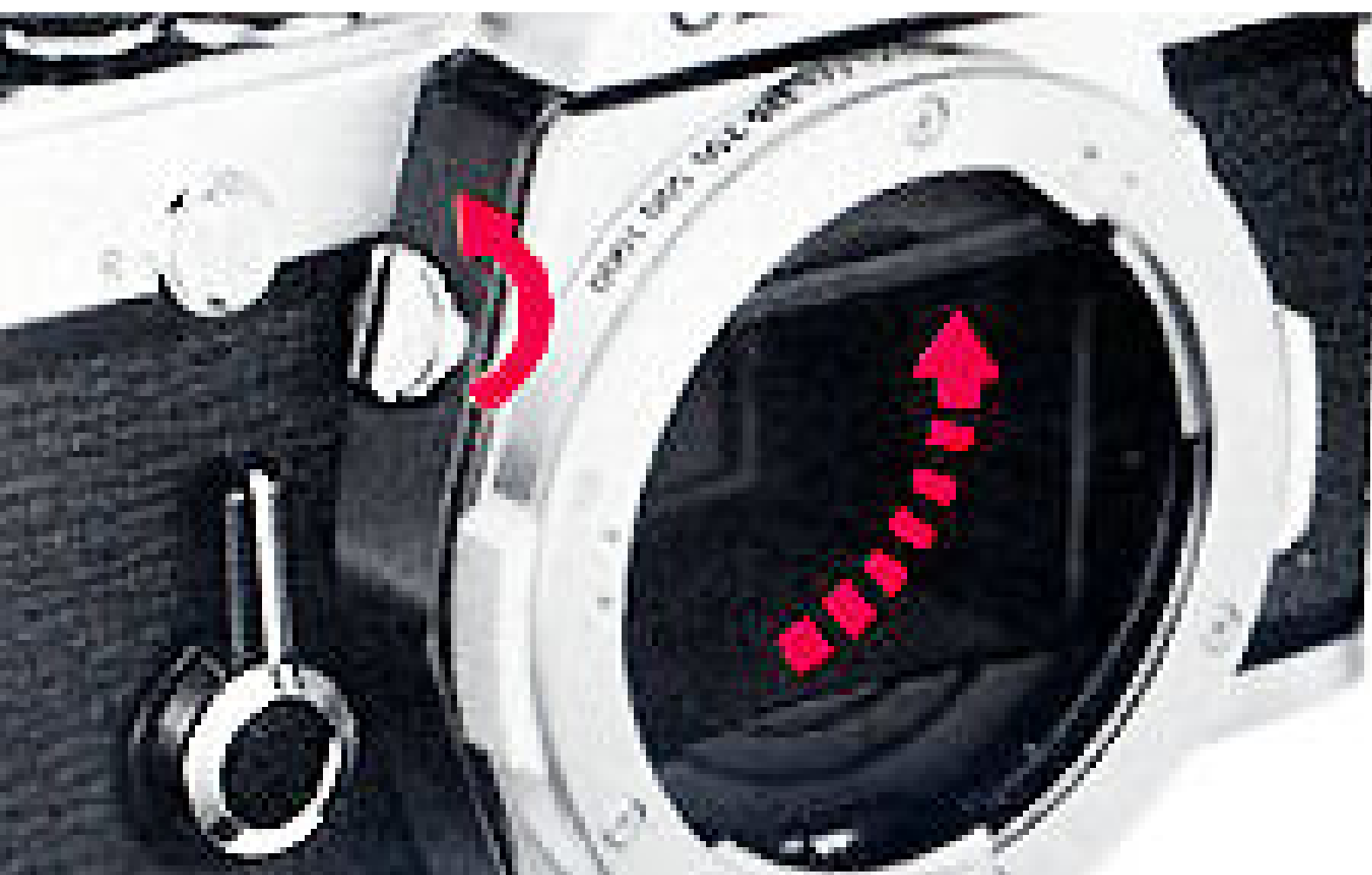




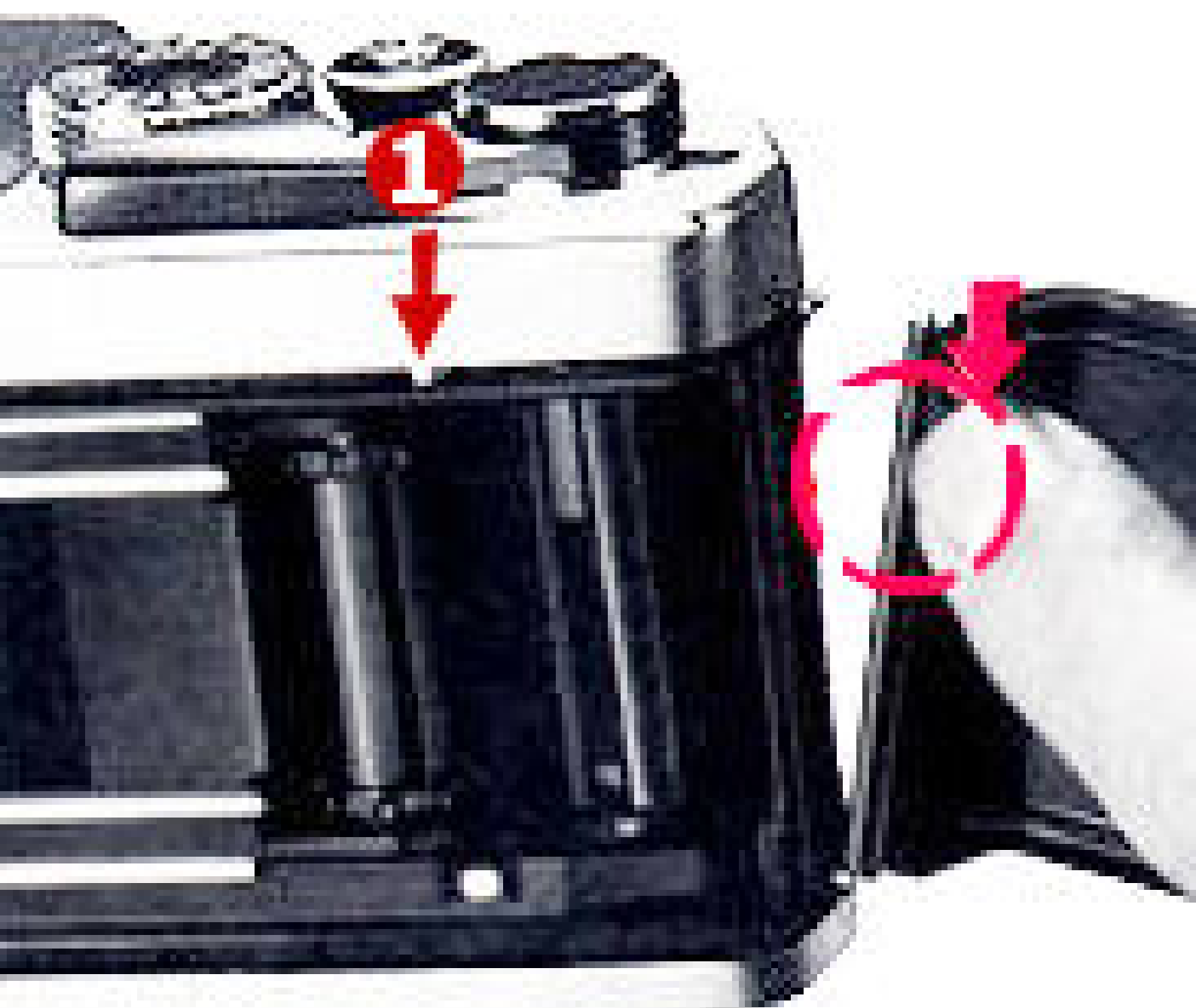














Control Panel

LCD Display

Record Switch









