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INSTRUCTIONS



OLYMPUS *Pen* **EE-S**



PEN EE-S (Electric Eye)

Automatic or Manual

A PERFECT PICTURE **EVERY** TIME

NOW, FOR THE 1st TIME IN HISTORY, A HIGH QUALITY CAMERA INCORPORATING ALL THE DESIRES OF THE PHOTOGRAPHER: Light Weight, Ultra-Miniature, Fully Automatic, Low Cost!

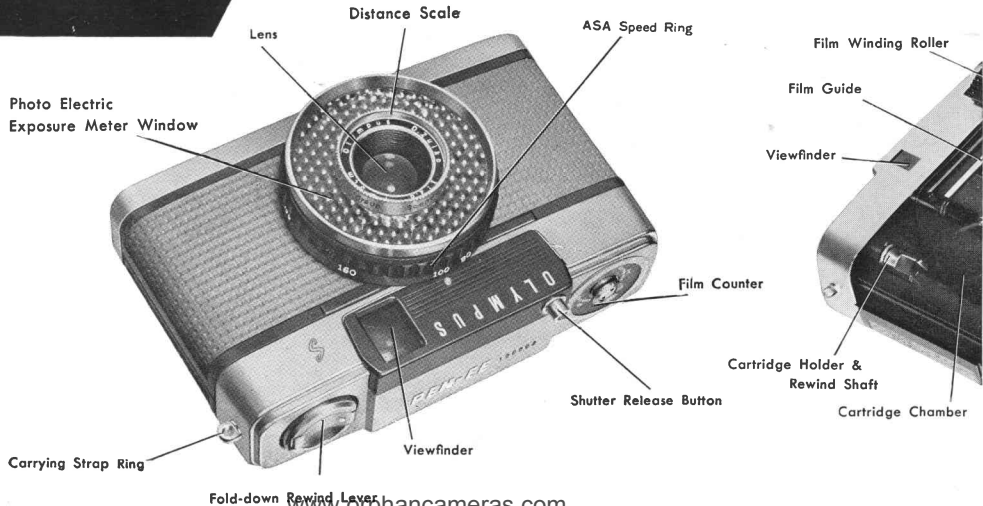
Instructions for this magnificent camera are simplicity itself. There is only one setting you have to make, except for setting the zone-focusing dial. That setting is made when the film is loaded into the camera. The setting stays the same throughout the entire roll of film.

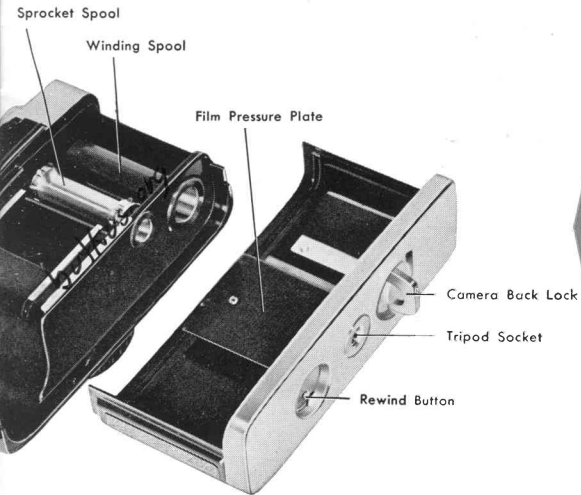
When the film is inserted, look at the instructions in the film box to determine the ASA number. Set the ASA number on the camera dial (white numbers) so that the Film ASA number is opposite the chromium dot.

When you take pictures, set the distance scale at one of three zone marks (Close, Group, Scene). See page 13. That's all you have to do. The Pen EE-S does everything else. It automatically sets the *f*/stop and gives you perfect pictures.

The PEN EE-S is the WORLD'S ONLY CAMERA THAT GIVES SUCH PERFECT PICTURES WITH SUCH CLARITY, AND WITH SUCH COMPLETE AUTOMATION.

Major Operating Parts





Lens:

D Zuiko f/2.8 (4 element), focal length: 30mm

Lens Opening:

Manual: 2.8, 4, 5.6, 8, 11, 16, 22

Automatic: Diaphragm automatically moves from f/2.8, to f/22

ASA Settings:

ASA Film Speed Settings are click stops at the ratings of 10, (25), 32, (40), 50, 80, 100, 160 and 200

Viewfinder:

Luminous Bright Frame Finder has magnification of 0.5X

Exposure Meter:

Built-in Electric Eye Meter has Exposure Values from 8 to 17 (ASA 100)

Film Winding:

One motion thumb wind at camera rear

Shutter:

Automatically set at 1/40 or 1/200 second, prevented from making exposure when light inadequate.

Rewind:

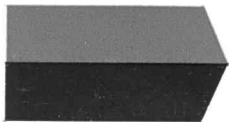
Fold down rewind crank type lever

Dimensions:

108mm × 66mm × 47mm

(4¹/₄" × 2¹/₂" × 1³/₄")

Weight: 400 gr. (14 ounces)

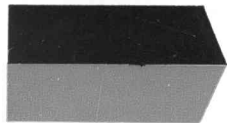


Film Size

The PEN EE-S accepts any regular 35mm film, color or black and white, all ASA speeds. No special film is necessary. The PEN EE-S takes the identical films that any 35mm camera takes.

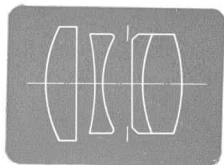
On a regular 20 exposure roll, the PEN EE-S gives you 40 exposures. The picture size is 18mm×24mm (about $\frac{3}{4}$ "×1"), exactly $\frac{1}{2}$ the size of pictures taken with a regular 35mm camera. The film is processed in the same way, through the same places that other 35mm film is processed.



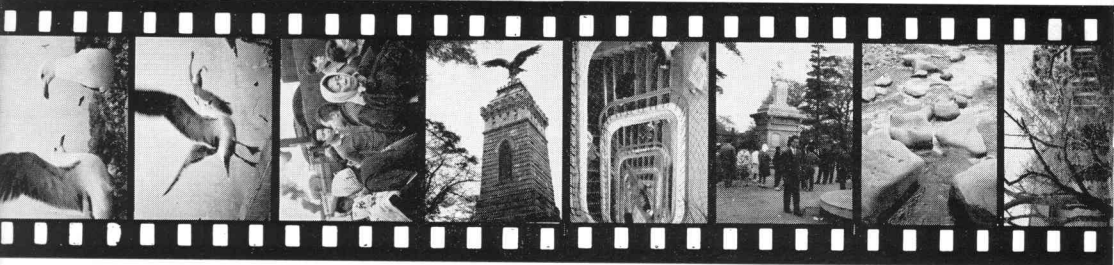


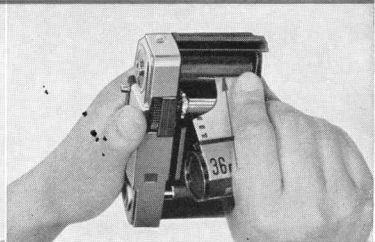
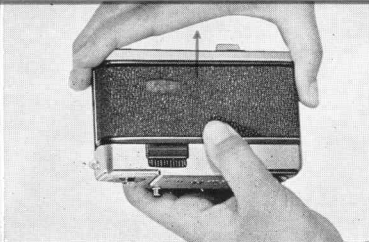
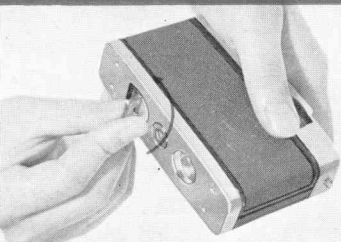
D. ZUIKO Lens

The Olympus PEN EE-S possesses a super-sharp 4-element, 3-component D. Zuiko lens. Because this specially formulated wide angles lens makes such sharp images, PEN EE-S negatives may be enlarged without difficulty to any normal size up to 16"×20".



F 2.8 30 mm
(equivalent to a 42 mm
lens on a full 35 mm frame)



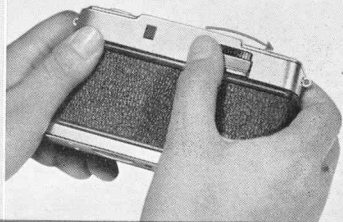
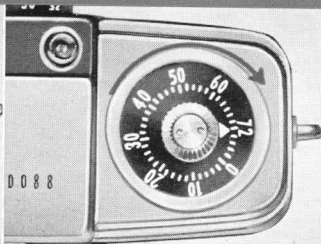
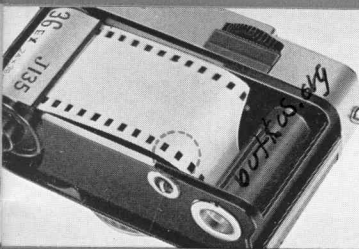


- 1) Flip up the lock at the camera base. Turn it in the direction of the arrow shown below. Then grasp the camera body with the left hand, the camera back with the right hand, and gently slide the camera back DOWN in the direction of the arrow shown in center photo above.
- 2) Slip the end of the new film into the Winding Spool.
- 3) Place the film cartridge in the cartridge chamber, being sure that the cartridge holder fits snugly within the top of cartridge. Be sure the sprockets on the sprocket spool engage the perforations in the film. Move the film slightly if necessary, or turn the rewind lever slightly to take up film slack. Replace the camera back and lock it securely.

Wind the film once and release the shutter button. During this 1st wind, the film is being engaged in the sprocket spool, and the

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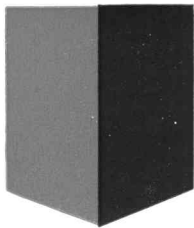
Film



rewind lever will move in the same direction the film is moving. This is normal, and shows proper loading. Wind and expose the film three more times. Whenever you wind the film, be sure you wind it all the way. Never wind it half way or part way, but all the way.

- 4) After the 3 trial shots; set the film counter. Place your thumb on the knurled round indicator, and turn until the triangle points to either 72 or 40. If you are using a 36 exposure roll, set the triangle to point to 72. If you are using a 20 exposure roll, set the triangle to point to 40. From that point on, the COUNTER SHOWS YOU HOW MANY PICTURES YOU CAN STILL TAKE BEFORE THE FILM IS ALL USED UP. If the pointer points to 27, for example, that means you can still take 27 more pictures on that roll of film.

Loading



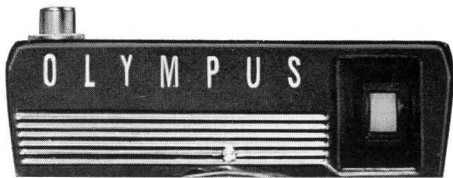
Self-Cocking Shutter

When the film is completely wound for next picture, two operations take place automatically. The film is moved to the next frame and the shutter is cocked, ready for release. You need only press the release button to make an exposure.

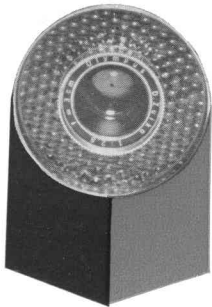
The Film Winding Roller should be rolled all the way until it stops. If not, the shutter will not operate. Do not wind the film immediately after you have taken a picture. Wait until you are ready for the next picture, and wind the film just before making the exposure. This enables the shutter springs to last and remain accurate indefinitely.



To Use the Viewfinder



The Olympus PEN EE-S embodies an Extra Bright Luminous Frame Finder, Perfect composition is easy. Simply place the subject matter in the center of the frame. The PEN EE-S finder is so constructed that regardless of the position of your eye, the subject will be centered. The frame limits are within the white outline shown in the finder. For action shots, watch the subject and click the shutter when subject is within the white frame.



Automatic Electric Eye



An ultra-sensitive built-in electric eye surrounds the lens. This electric eye sets the f /stop for a perfect exposure regardless of the light conditions. Simply point the camera at the subject (by looking through the viewfinder at the subject), the eye gathers the light, sets the f /stop and the proper shutter speed automatically, and allows a perfect picture by simply releasing the shutter.

If the light is too bright or too dull, it is impossible to make an exposure. As you look through the viewfinder you see a red flasher comes up when the exposure will not be perfect. If you see this red signal, simply move the subject to an area that has more light. The electric eye and red flasher operates automatically at all ASA film speed setting as shown on the ASA ring in white numbers.



Focusing

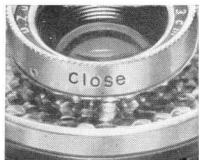
The Focusing Ring is marked with three zones (Close, Group and Scene).

Close For portrait. Click stop in 1.2 m (4 feet)

Group . . . For group pictures and snap shots, etc.
Click stop in 3 m (10 feet)

Scene For wide-open scene.
Click stop in 15 m (50 feet)

The closest distance is 90 cm and the setting moves up to infinitive.





Automatic Shutter Speed Setting

The shutter switches over automatically from 1/40 to 1/200 second or 1/200 to 1/40 second, and covers wide range of light conditions as mentioned below.

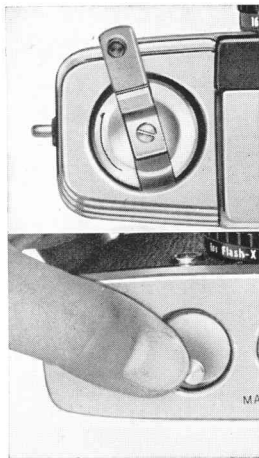
E. V.	8	9	10	11	12	13	14	15	16	17
1/40 sec.	F 2.8	4	5.6	8						
1/200 sec.				2.8	4	5.6	8	11	22	

The shutter speeds switch over in E. V. 11.

For flash the shutter works at 1/40 sec.



To Rewind the Film After the Last Exposure



Flip up the rewind lever. Press down and HOLD the rewind button at the base of the camera body. SLOWLY turn the rewind crank in the direction of the arrow. You will feel a tension, which shows that the film is being rewound into the cartridge. At the rate of about 1 complete turn per second, turn the rewind crank until you feel the tension suddenly disappears. Then turn the rewind crank a few more times, and the film can be removed from the camera. If you turn the rewind crank too quickly in the PEN-EE or in any camera; the friction of the film against the pressure plate cause tiny bits of dust to settle on the film.

Advantages of the D. ZUIKO Wide Angle Lens

One of the major reasons for taking pictures is to record life as it exists. The camera lens is like our eyes. We want to put on film what our eyes see. Our eyes can look at a newspaper, or a person across the table, or three miles away, and they will all be sharp to us. If something very close and very far is sharp to us at the same time—like our eyes see things—it is called great "depth of field". Our eyes have a great depth of field.

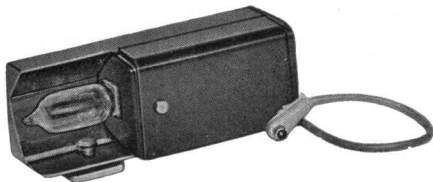
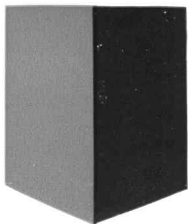
The lenses found on most ordinary cameras do NOT have a great depth of field. But the D. ZUIKO lens on the Olympus PEN EE-S has one of the greatest depth of fields in existence. To prove this, make a photograph of a near object, a middle object and a far-away object in the same picture. The Olympus PEN EE-S will get them ALL sharp at the same time, JUST AS OUR EYES WOULD SEE IT.

(To be doubly sure, use the highest numbered f/stop whenever possible.)

Depth of Field

Remember that Depth of Field **INCREASES** as you use a figure f/stop. Remember also that subjects do not suddenly become fuzzy if they are outside the depth of field. Objects gradually lose first a little sharpness, then more sharpness the further they get outside the depth of field. For simple operation, and for the most sharpness, use the higher numbered f/stops whenever possible. Since the PEN EE is a fully automatic camera, use the fastest available film that you can. This will give you a higher ASA setting, and the camera will automatically give you sharper pictures due to a greater depth of field.

Lens opening \ Distance	2.8	4	5.6	8	11	16	22
Scene (15 m)	4.03 ∞	3.08 ∞	2.35 ∞	1.74 ∞	1.34 ∞	0.95 ∞	0.72 ∞
Group (3 m)	1.96 6.48	1.71 13.15	1.47 ∞	1.21 ∞	0.99 ∞	0.77 ∞	0.62 ∞
(Close (1.2m))	1.00 1.50	0.93 1.68	0.86 2.02	0.77 2.91	0.68 6.61	0.57 ∞	0.49 ∞



Flash Synchronization

Any kind of Flash-Gun can be used with PEN EE-S. Use a Strobe light or a Type F Bulb.

Selection of the lens opening.

Divide the Guide number by distance and this is the lens opening figure.

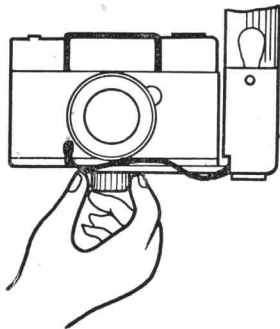
Example: Film Speed: ASA 100
Guide Number: 105

Distance to subject: 15
feet

Set lens opening at 8 close to 7.

Attaching to Camera

- Open the bracket and fix an **Olympus Pen** camera on it with the screw.
- Connect the cord with Flash Synchronization Socket.





Special Accessories

- Lens Shade :** Covers only the lens area.
- Case :** Padded, soft genuine leather protective case.
- Filters :** A full complement of filters is available which fit over the lens and electric eye. All filter factors are automatically compensated for in the PEN EE-S
- Y2 (Yellow) 22.5mm, screw-in type
UV (Haze) 22.5mm, //
Skylight (1A) 22.5mm, //
Conversion type A
Conversion type F
ND. 4×
- Wrist Strap :** Used to hold camera tightly when making exposures or for carrying.



To Make a Perfect Picture

- 1) Hold the camera firmly against your face.
- 2) Spread your feet apart so you will not sway back and forth, or side to side.
- 3) Be sure your fingers do not cover the lens, the viewfinder, the electric eye, or the framefinder. Be sure your fingers do not move the ASA ring after it is set.
- 4) Hold your breath as you press the shutter release button.
- 5) Use a lens shade when shooting into the sunlight.
- 6) Use a UV filter to shut out ultraviolet rays. (The filter can be used between pictures to protect the lens also.)



OLYMPUS OPTICAL CO., LTD., Tokyo, Japan