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Olympus  
*Pen*

EED

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**Congratulations on purchasing your Olympus Pen EED camera**

This Pen EED is a high quality camera fitted with a large aperture, bright and sharp 6 elements F1.7 lens and also with an ultra sensitive CdS meter coupled with shutter automatically.

To make every photograph a masterpiece you need first to know your camera.

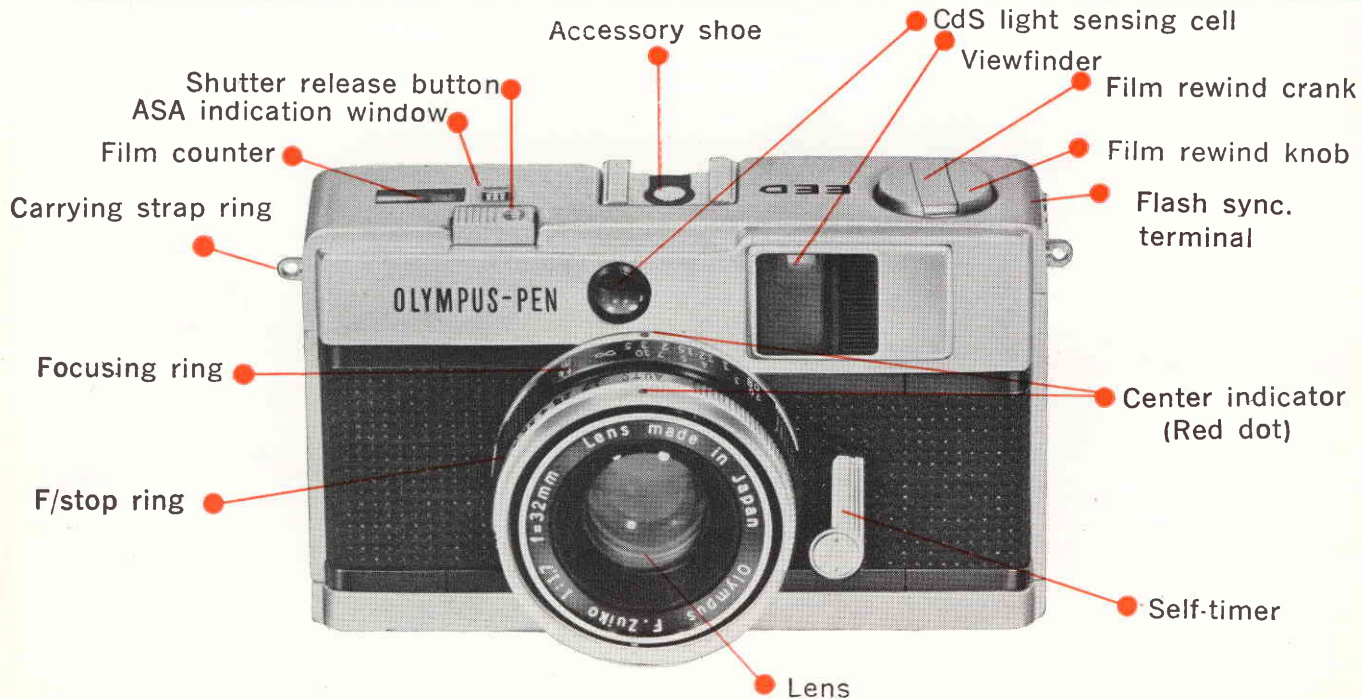
Read these instructions carefully before attempting to use your camera.

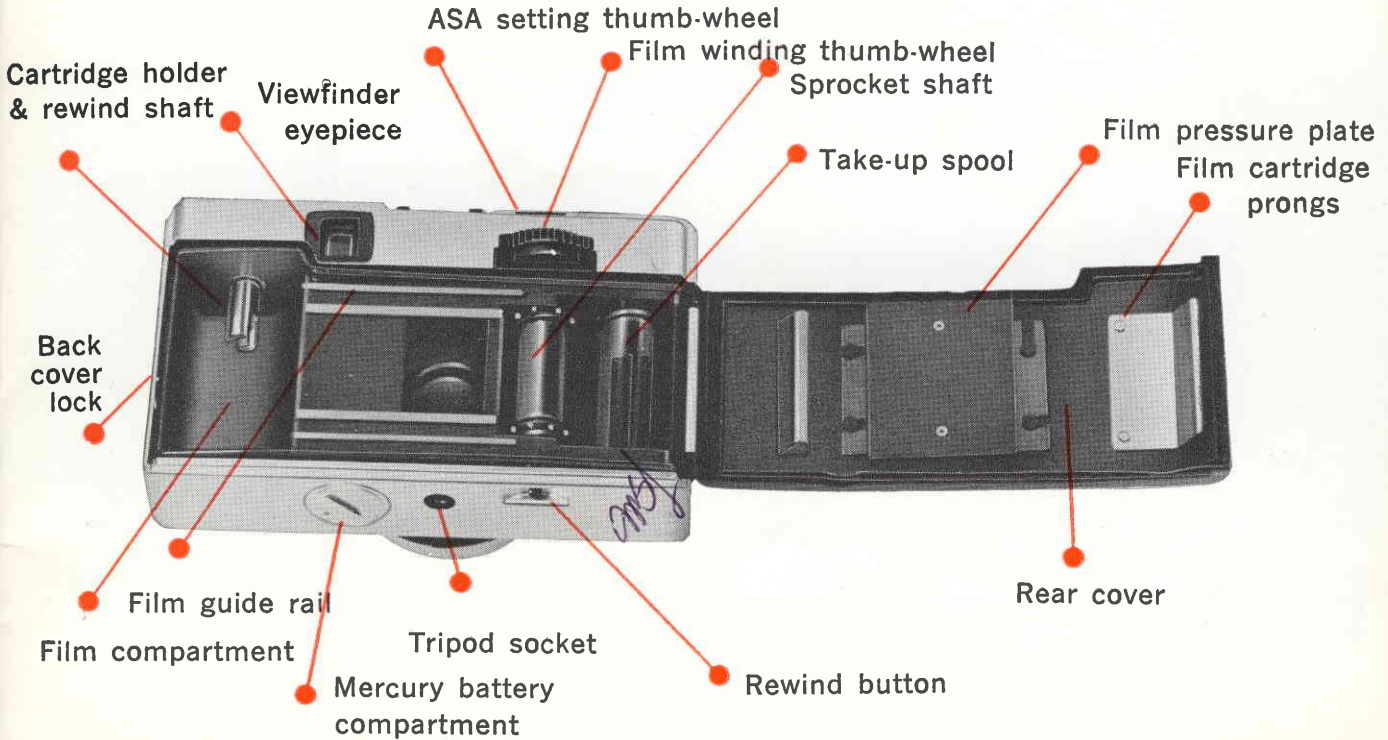
## Main features :

# EED

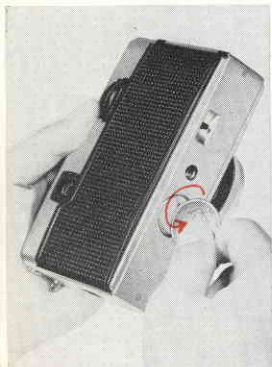
- Lens** : F. Zuiko F/1.7, f=32mm (6 elements in 4 groups)
- Shutter** : Serial programmed system  
(Auto) 1/15 sec. at F/1.7 ~ 1/500 sec. at F/16  
(Manual) 1/15 sec. X synchro. contact  
(Self shutters release button locking system for inadequate light)
- Lens opening** : Auto. Automatically moves from F/1.7 at 1/15 sec. to F/16 at 1/500 sec.  
Manual. For flash photography, from F/1.7 to F/22 at 1/15 sec.
- View finder** : Luminous bright frame finder (Magnification 0.7) with parallax correction mark and inadequate exposure indication.
- Film loading** : EL (Easy Loading) System
- Film winding** : One motion thumb wind at camera rear. Self-cocking to prevent double advances and double exposures.
- Film counter** : Exposed counting, self-resetting type
- Film rewinding** : Crank type rewind button setting system
- Focusing** : Direct advancing helicoid system 0.8m (2.6 ft) to infinity.  
Click stops at 0.8m, 1.2m (4 ft) and 3m (10 ft)
- Exposure meter** : Built-in CdS electric eye meter  
Light measuring range EV 5.5 (F/1.7, 1/15 sec.)—EV 17 (F/16, 1/500 sec.)
- Sensing cell** : CdS type with mercury battery (1.3V) for power source
- Film speed setting** : ASA 12—400
- Self timer** : Lever system (130°) actuated in about 11 sec.
- Rear cover operation** : Hinge type,
- Accessory shoe** : Cordless flash contact
- Size & weight** : 115 (width)×68 (height)×49.5 (depth)mm, 430 gr.

## Component parts :

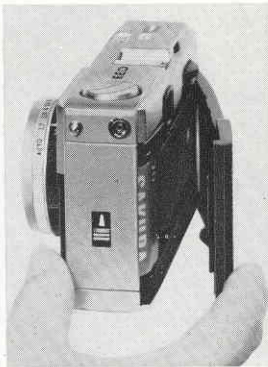




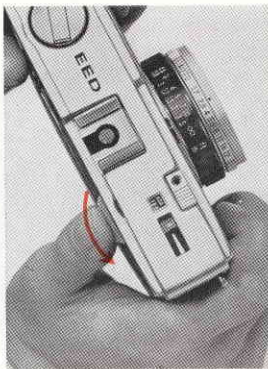
## You can take pictures simply in the following manner :



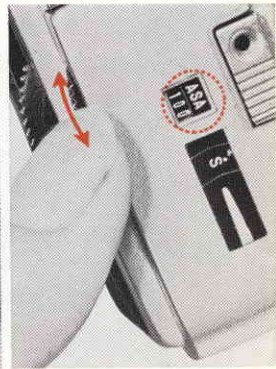
**1** Insert the mercury battery. (See page 8)



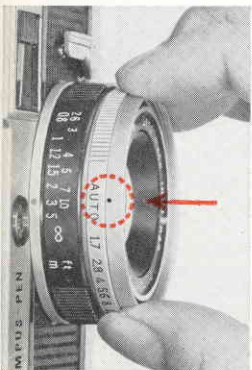
**2** Load the camera. (See page 9) Use standard 35 mm film.



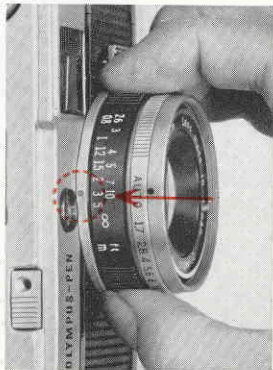
**3** Advance the film.



**4** Set the film speed. (See page 11)



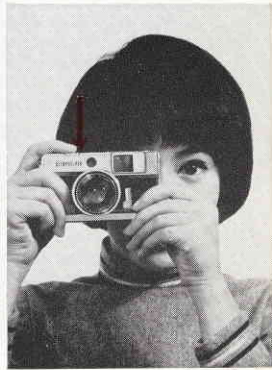
**5** Set to "Auto" (Automatic). (See page 13)



**6** Set the focus estimating the distance. (See page 12)



**7** Compose the picture looking through viewfinder. (See page 15)



**8** Hold the camera firmly and squeeze the release button gently. (See page 16)



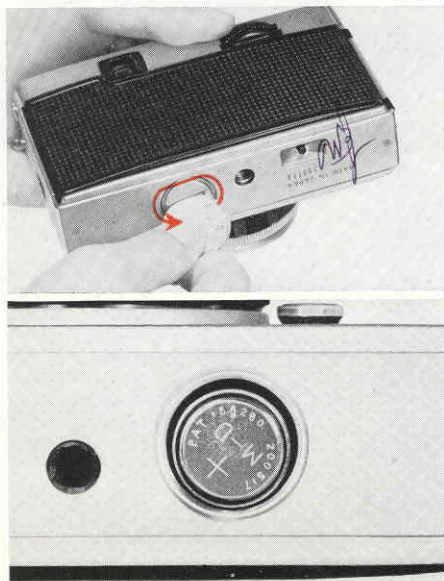
## Film size :

# EED

The Pen EED accepts any regular 35mm film, color or black and white. No special film is necessary. The Pen EED takes the identical films that any 35mm camera takes.

On a regular 20 exposure roll, the Pen EED gives you 40 exposures. The picture size is 18mm x 24mm (about  $\frac{3}{4}$ " x 1"), exactly  $\frac{1}{2}$  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.





To actuate the light meter, insert the mercury battery (1.3V) correctly into the battery compartment at the bottom of the camera.

1. Fit a coin into the slot on the cover of the battery compartment and turn the cover counter-clockwise for removal.
2. Put in the battery, as illustrated, so that the (+) end of the battery faces outwards, and screw in the cover firmly.

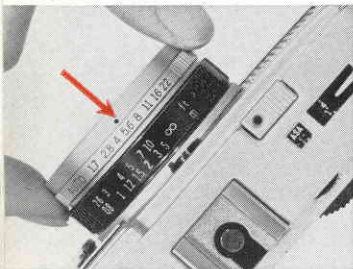
When the battery runs out, its performance fails sharply and the light meter ceases to function. Take care to replace the battery after about one year of use.

When you forget to insert the battery, the shutter does not work even if you press the shutter button under adequate light.

Recommendable battery replacements including National M-1D, Toshiba TH-MC, Mallory RM625, Eveready E625, General No. 625, etc.

## Loading the camera

Release the "Auto"



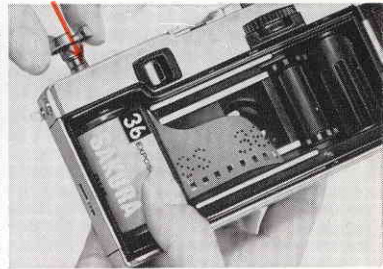
**1** Set one of the F numbers to the center red dot, turning F/stop ring.

Open the rear cover.



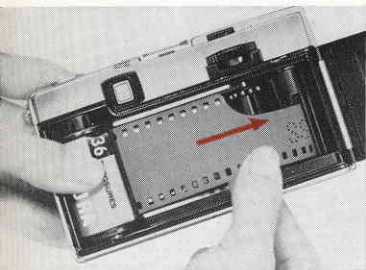
**2** Push up the rear cover key to the arrow's direction.

Load the camera.

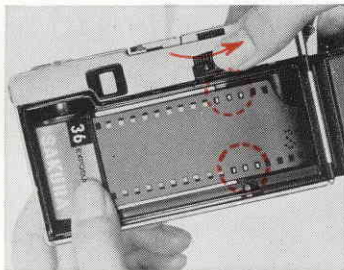


**3** Put the film into the film compartment. If the rewind knob does not return to its home position, press it in while slightly turning it clockwise or counter-clockwise; then it clicks in easily.

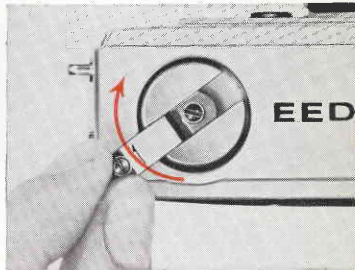
### Slip the film end.



### Advance the film.



### Close the rear cover.



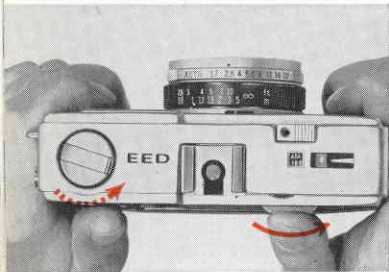
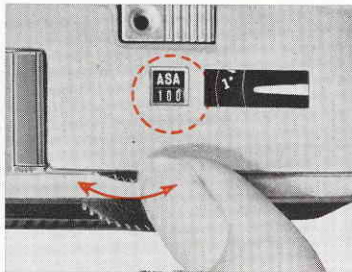
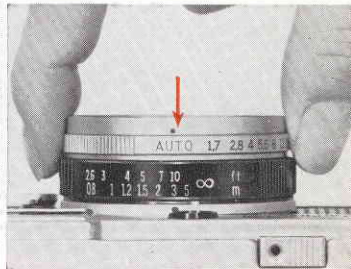
**4** Hold and lead out the film a little with the right hand while slightly pressing the cartridge with the left hand and insert the film end into any of the six grooves on the take-up spool.

**5** Be sure the sprockets on the sprocket spool engage the perforations on the both sides of the film, winding the film on to the take-up spool.

#### **NOTE:**

When insert the film end into one of the slots so deep, the film end may run out from the other side of the spool. Even in that case, continue to advance the film.

**6** At this point, for additional safety, lift up the rewind crank and turn it lightly until it meets resistance, indicating that the film is tightened enough.

**Check a film counter.****Set ASA.****Set the camera to "Auto"**

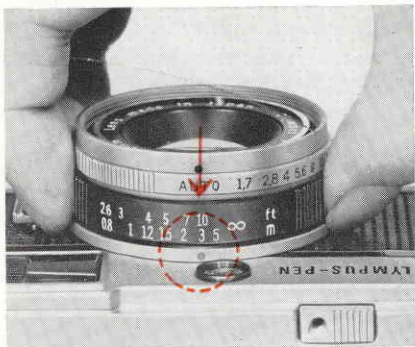
- 7** Operate the advance lever and actuate the shutter. Repeat this motion until the film counter shows the number 1. From this point, start taking pictures. If the rewind knob turns during the repeated motion, this shows that the film is being advanced properly.

- 8** Set the ASA to the rating of your film turning the ASA setting thumb-wheel. For details of film rating (ASA), see the instructions supplied with your film pack.

- 9** Turn the F/stop ring until the "Auto" mark click stops at the center red dot.

## Set the distance :

# EED



Estimate the distance from camera to subject and set it to center red dot turning the focusing ring. The click stop at 0.8 m (2' 6") is a convenient for close-up, at 1.2 m (4') for portrait, at 3 m (10') for snapshot and infinity ( $\infty$ ) is for landscape. When taking general pictures, good results are obtained even if you set the focusing ring to 3 m click stop.

**0.8 m**  
Close-up



**1.2 m**  
Portrait



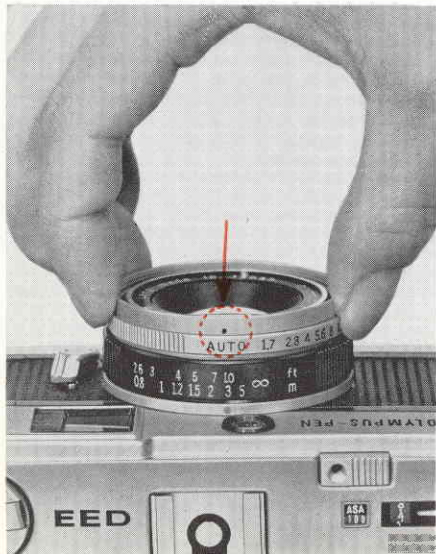
**3 m**  
Snapshot



**$\infty$**   
Landscape



## Automatic exposure setting



The serial programmed shutter system coupled with ultra-sensitive CdS meter set the F/stop and proper shutter speed automatically for a perfect exposure according to the light conditions.

You don't have to operate any such mechanism as F/stop and shutter speed. Just turn the F/stop ring until the "Auto" mark comes to the center red dot.

The F numbers (black lettered) are for flash photography.

## Modifications of exposure

The built-in CdS exposure meter which is automatically coupled to the shutter speed and aperture relieves the photographer with a Pen EED of all exposure worries.

For normal subjects you set the exposure while shorting by simply pressing the release as you point the camera at the subject.

Modifications of this procedure arise in special circumstances as shown under.

## Always pay your attention to reset the ASA speed to its original value afterwards.

### 1. Against the light

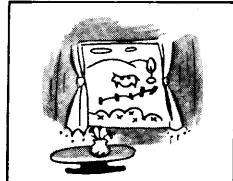
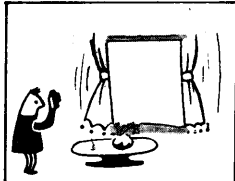
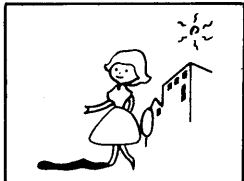
Where clear details are required in photographs taken against the light or a good deal of sky and sea water, the automatic exposure mechanism would tend to give too short a reading. To overcome this, reduce the setting on the ASA scale by setting the ASA speed to half that marked on the film packet.

### 2. Against a brightness from dark place

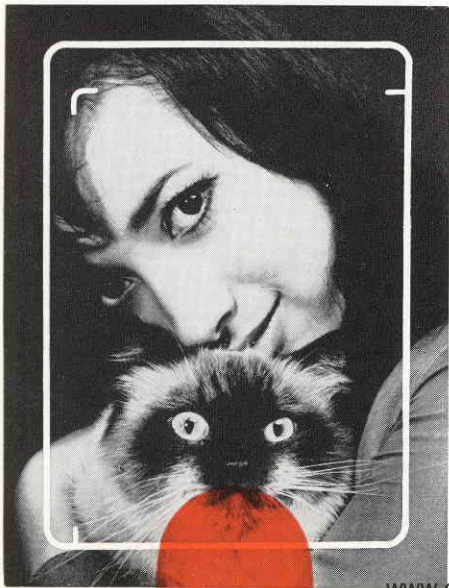
When taking a picture facing bright subject setting your camera at dark place, set the ASA scale to two times higher speed than original ASA speed.

### 3. Y2 or ND 4 filter attached

When Y2 or ND4 filter is attached, the ASA scale should be adjusted to 1/2 or 1/4 respectively against original ASA speed.







The Olympus Pen EED embodies extra wide bright luminous frame finder. Perfect composition is easy simply placing the subject in the center of the frame. The Pen EED finder is so constructed that regardless of the position of your eye, the subject will be centered. **Parallax correction mark:** When making close-ups (0.8m), make certain that your subject occupies the area within the projecting short lines.

**Red warning mark.**

When your subject is too dim, the shutter does not work even if you press the shutter button and a red warning mark appears in the viewfinder. In such a case, use a flash-gun. (See page 19)

## Holding the camera properly :

# EED

The camera must be held firmly in order to take good pictures. Shaking leads to unsharp pictures. Practice until you become fully accustomed to the "feel" of the camera. Squeeze the release button with the ball, not with the tip of your finger. You may hold the camera either vertically or horizontally as your composition requires.



When holding the camera horizontally, keep both elbows close to your body (Illustration).



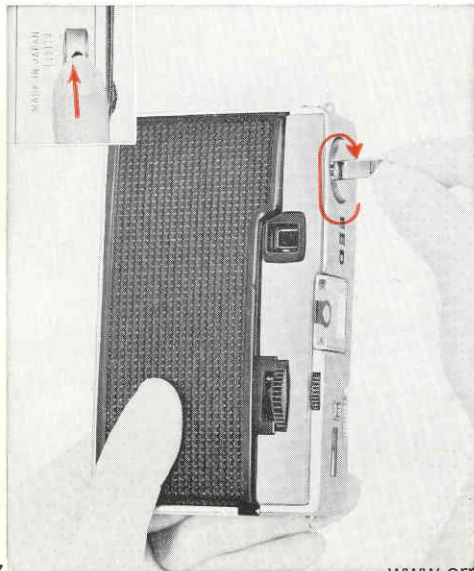
When holding the camera vertically, keep the right elbow close to your body and support the camera firmly with the left arm (Illustration)



\* The shutter release button should be pressed with the flat part of the index finger



\* Be sure your finger or camera case do not cover the lens or CdS light sensing cell.



When the whole roll has been exposed, rewind the film. To determine whether the whole roll has been exposed or not, check the film counter. It will show the the number 72 (in the case of 36-exposure roll) or 40 (in the case of 20-exposure roll). To rewind the film, first press in the rewind button at the bottom of the camera, then lift up the rewind crank and turn the crank in the direction of the arrow. While the film is being rewound, the crank is tight, but when the film is rolled up and the film end leaves the take-up spool, the crank suddenly turns freely. The film thus rewound is taken out in a place free from direct sunlight. Towards the end of the roll of film, the advance lever may meet resistance and refuse to move half-way through the advancing stroke. This means that all the film is used up. Do not attempt to force the lever or you will damage the camera and tear the film. Press the rewind button and you can then complete the winding stroke. Do not try to take another picture but rewind the film.

- \* Dust and moisture are enemies of your camera. Be sure to store the camera in a dry and well ventilated place.
- \* Don't touch the lens with your fingers. If touched, wipe it with a clean unstarched cotton cloth. Fingerprints, if not wiped off immediately, will eventually not be removable.
- \* After using the camera on the beach, be sure to wipe the surface of the camera with a soft cloth so that no salt or other corrosive substance will be left on it.
- \* If the camera should need service, bring it immediately to your dealer, who is an OLYMPUS service agent.

In dark conditions indicated by red warning mark, use flash photography with flash bulbs or an electronic flash unit.

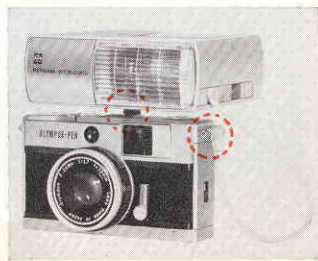
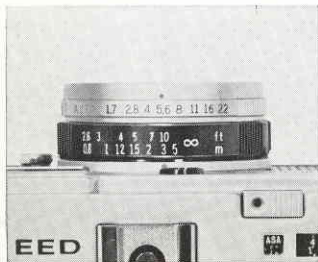
The compact style Pen Flash CL can be used without a cord. In flash photography, release the "Auto", then shutter speed is set to 1/15 sec. automatically.

### Attach to the camera

\* Simply insert the Pen Flash CL into the accessory shoe (with built-in cordless contacts) at the top of the camera ; where it connects electrically to the shutter-diaphragm mechanism. The Pen Flash CL exposure chart is stuck on the rear of the flash.

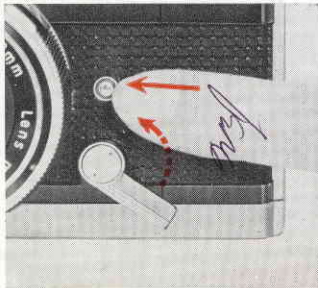
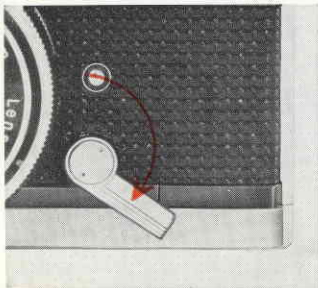


\* When using ordinary flash guns or electronic flash, insert the unit into the accessory shoe and attach flash connecting plug into the synchronizing socket of the camera.



The camera has a built-in self-timer which enables you to take a picture of yourself without the help of others. Create a lot of happy photographic mementos by making effective use of the self-timer.

1. Set the self-timer by turning the lever 130 degrees downward.
2. Make certain the film has been advanced securely.
3. Press the start button fitted behind the lever ; then the shutter is actuated in about 11 seconds.



- \* You may set the self-timer lever either before or after advancing the film.
- \* Even after the self-timer has been set, you can also shoot by pressing the release button without operating the self-timer.
- \* When the film has not been advanced securely, the shutter cannot be actuated even if you operate the self-timer.
- \* If the above situation has taken place, **turn the self-timer 90 degrees downward over again, and holding it with your finger, advance the film securely.** At this time, the self-timer starts as your finger leaves it even you don't press the start button.
- \* When the shutter does not work for dim lightning condition, release the "Auto" and set F/1.7 to center red dot. Then set the self-timer again as mentioned above.



## Filter

Use 43mm screw-in type or 45mm slip-on type filter. When Y2 or ND4 filter is attached, the ASA setting should be adjusted to 1/2 or 1/4 respectively against original ASA number. For instance, set ASA at 50 or 25 instead of 100. UV or 1A filter, either of which no ASA setting adjustment is necessary, is recommended for clear pictures and lens protection.

## Filter Types and Characteristics :

U V	Eliminates undesirable ultra-violet rays and gives clear pictures. Also usable constantly for lens protection. (For black-and-white film)
Y 2	Accentuates contrasts, for example, by darkening a blue sky and bringing white clouds into relief, and produces three-dimensional effects. (For black-and-white film)
1 A	(skylight)—Like UV, eliminates stray ultra-violet rays and prevents pictures from assuming a bluish tone. Usable for lens protection. (For colour film)
81 C	(for cloudy weather)—Designed for colour photography, prevents a bluish tone from entering pictures taken under cloudy or rainy weather.
82 C	(for morning and evening)—Designed for colour photography, prevents a yellow-reddish tone from entering pictures taken during morning or evening hours when red rays abound.

## Lens Hood :

This lens hood eliminates undesirable glare caused by the sun or other light source.



## Pen Flash CL :

This compact microflash unit can be used with two types of bulbs, AG-1 and AG-1B (for colour photography).





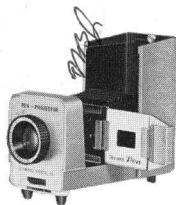
### Pen UP 3

The Pen Up 3 is useful for taking close-up pictures of pet animals or still life in addition to making copies of documents, books, photographs and other reference data.



### Attachment (Close-up Lens)

By attaching the lens  $f=30\text{cm}$  or  $f=40\text{cm}$ , you can take a close-up picture at minimum distance of 29.5cm or 40.4cm respectively. In this picture taking, set a focusing ring at infinity ( $\infty$ ).



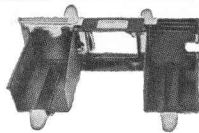
### Enjoy Colour Slides :

The Pen projector can project spectacular life-sized pictures from very short distances. It can be used with both the 35mm and the half size slides.

### Pen Projector Type 2.



Cooler.



Auto-changer  
Type 2.



Film Strip  
Adapter.



Slide mounts