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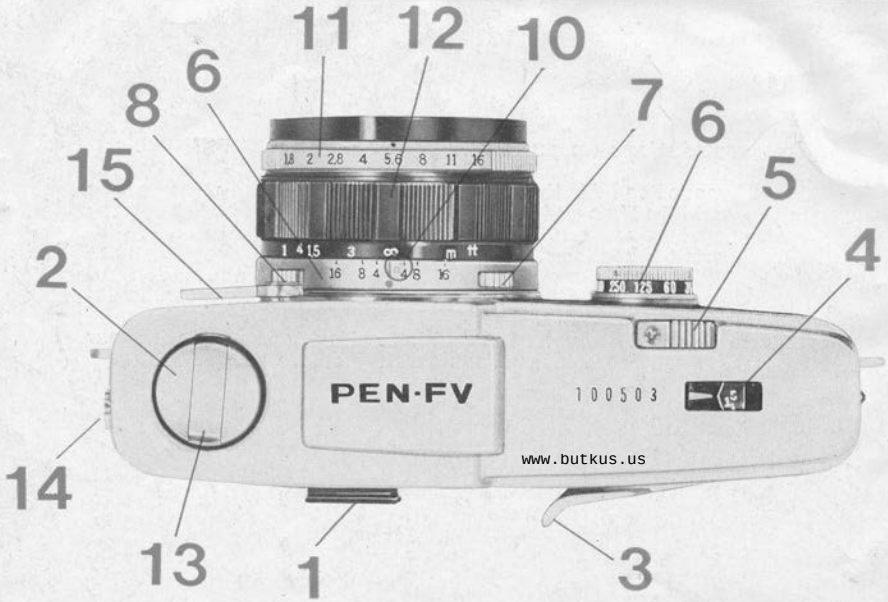
Olympus Pen FV

Conguratulations on purchasing your OLYMPUS PEN FV.

This Olympus Pen FV is the only half frame Single Lens Reflex camera in the world that has added new mechanism as the self-timer, easy loading system and one stroke winding to the original Pen F.
Well-assorted interchangeable lenses and variety of accessories are kept to fully meet the requirements of the users and widen the versatility of the Pen FV. It meets all requirements for a contemporary high quality camera.
To take fine picture, you need first to familiarize yourself with your camera. Read these instructions carefuly before picture taking.

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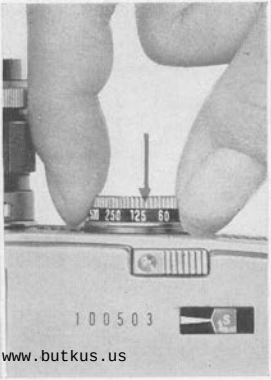
● **Explanations are given on how to handle the various parts. Read the explanations according to the leader numbers illustrated.**

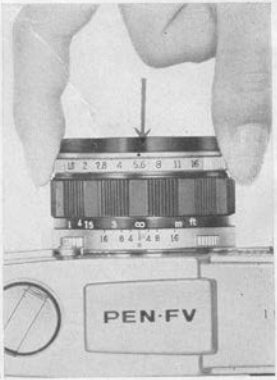


You can take pictures simply in the following manne

Fine pictures will be secured by the following procedures.
Read them carefully and familialize yourself with your Pen FV.







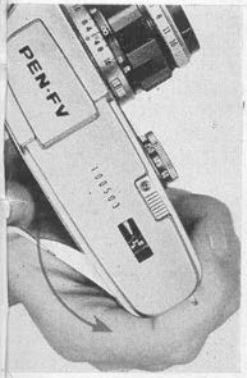
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1 Load the camera (see page 15).

2 Set the shutter speed (see page10).

3 Determine the aperture opening (see page 13).

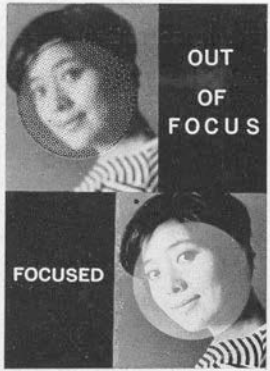
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4 Advance the film. (see page 9)



5 Hold the camera steady and compose your picture (see page 17)

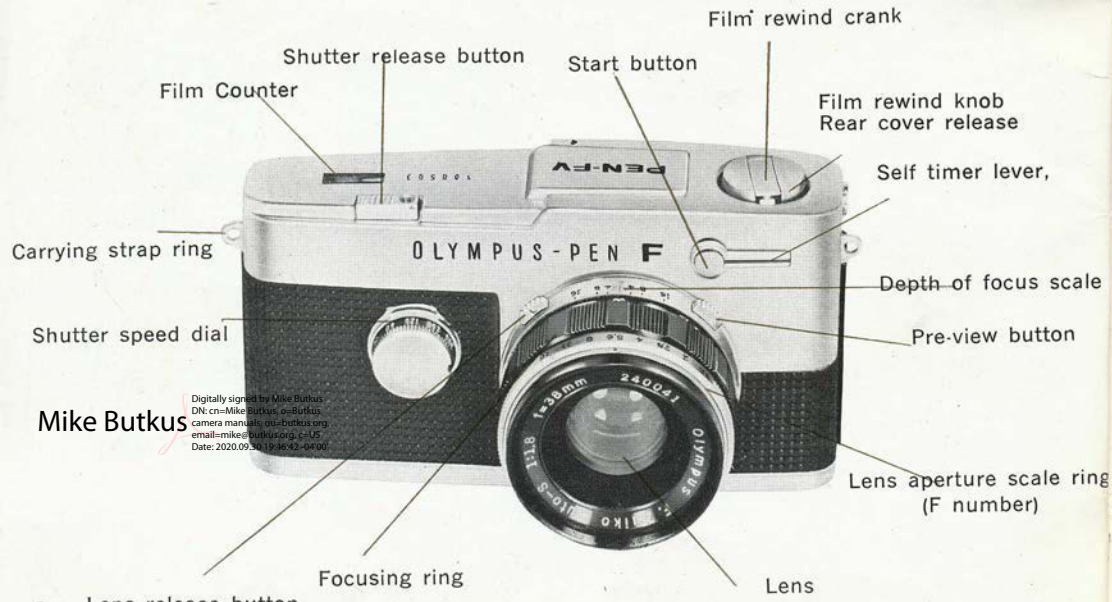


6 Set the focus (see page 14).



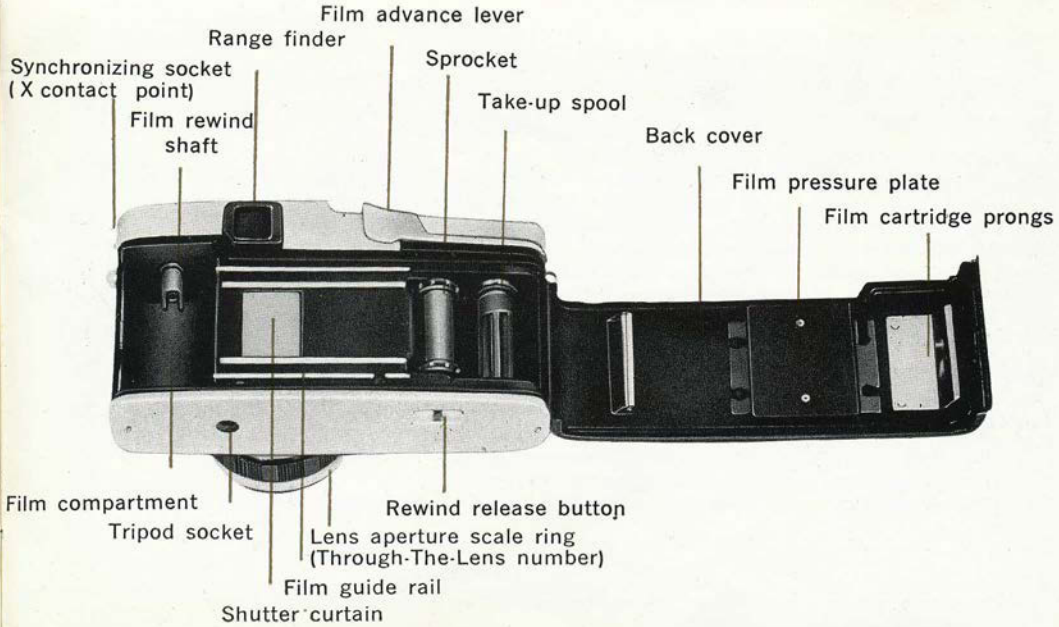
7 Press the shutter button quietly.

Component parts:



Mike Butkus
Digitally signed by Mike Butkus
DN: cn=Mike Butkus, o=Butkus camera manuals, ou=butkus.org, email=mike@butkus.org, c=US
Date: 2020.09.30 19:36:42 -04'00'

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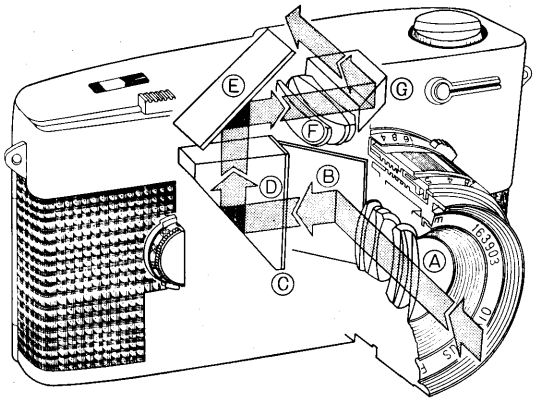


Main features:

FV

Picture	:	24×18 mm
Lens	:	**(with F1.8 standard lens)** F Zuiko Auto S, F1.8, f=38mm, All lenses have fully automatic diaphragm and are marked on F-numbers and Through-The-Lens numbers.
Lens replacement	:	Bayonet system ("Pen" mount)
Shutter	:	Olympus rotary metal focal-plane shutter; B. 1-1/500sec. (equally calibrated) one-pivot non rotating shutter speed dial
Synchronizing	:	All shutter speeds synchronization with X contact
Viewfinder	:	Porroprism finder, magnification 0.8X (standard lens), with microprism and special fresnel lens. Actual erect image
Mirror	:	Horizontally opening shockless quick return mirror
Loading	:	EL (easy loading) system
Film advancing	:	1 stroke lever type with an advancing stroke angle of 150 degrees, self-cocking to prevent double advances and double exposures
Film counter	:	Exposed counting, self-resetting type
Film rewinding	:	Crank type rewind button setting system
Focus adjustment	:	Direct advancing helicoid system, minimum close-up distance 35cm
Self-timer	:	Lever system (90 degrees) actuated in about 11 seconds
Rear cover operation	:	"Magic" locking hinge system
Size & weight	:	**(with F1.8 standard lens)** 127 (W)×69.5 (H)×62.5 (D) mm, 585 gr.

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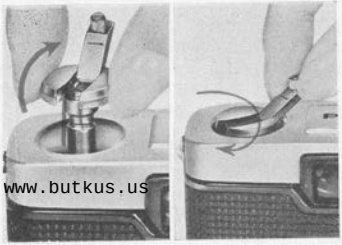
Prism Light

This Olympus Pen FV is the single lens reflex camera with triangler hat off, that the image reflected by the lens on the screen is always visible through the view finder except at the actual instant of exposure.

Light passes through the lens (A) and is deflected to left by the quick return mirror (B) to form an image on the focusing screen (C). This image is reflected upwards by a prism (D) to another mirror (E) which deflects it through a magnifying lens (F) to a second prism (G) and so to eyepiece. Thus, it is the image formed by the taking lens that is presented to the eye.

A fresnel lens on the screen distributes the light evenly so that the corners are as bright as the rest of the screen. Meanwhile, the microprism in the center of the fresnel lens make it possible to get a sharp focus so easy.

2 Opening the back cover:

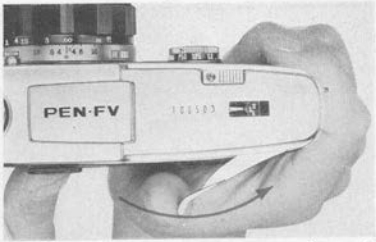


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Lift the film rewind crank and pull up the knob until it comes to its first stop. At this point, pull it up further; then the rear cover opens automatically.

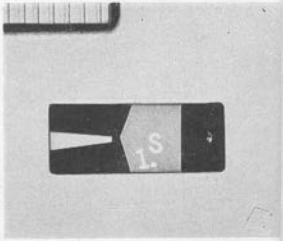
- To close it, press the cover until it clicks.
- To rewind the film (see page 18) or tighten the film (see page 16), turn the rewind crank in the direction of the arrow.

3 Operating the film advance lever:



1. Move out the advance lever in a single stroke (preliminary lead angle 13°). In picture taking, bring the lever to this point, as it facilitates the next advancing motion.
2. From this point, advance the lever until it stops, then the film is advanced one frame and the shutter release can be actuated (advancing stroke angle 137°). Be sure to advance the lever until it stops; otherwise it does not return to starting position. Don't force it to return from the middle position of a stroke.
3. Squeeze the release button gently; then the shutter is actuated and the film can be advanced for the next exposure.

4 Film counter:



The film counter starts from "S" and continues through 72, counting by 4 s. i. e. S, 1, 4, 8, 12, 16, etc.

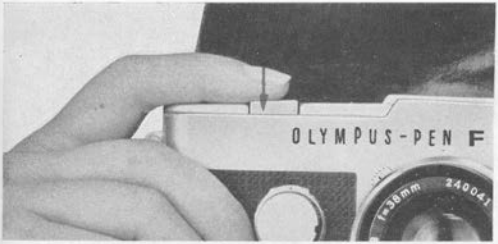
Single frames are advance by the film advance lever but, due to size, this is not indicated on the film counter.

The orange colored arrow shows the number of frames exposed.

When the rear cover is opened, the film counter returns to "S" automatically.

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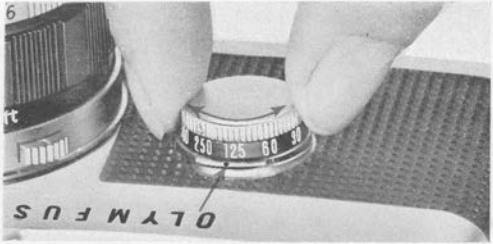
5 Shutter release button:



When holding the camera the index finger rests naturally on the shutter release button. The Pen FV is rectangular in shape so that the shutter release button may be activated with only slight pressure from the flat part of this finger.
The threaded hole inside the button is for attaching a cable release at slow shutter speed.

6 Shutter speed dial:

FV



The shutter dial shows shutter speeds, B, 1, 2, 4, etc., up to 500.
To set shutter speed, turn the dial until the corresponding number is aligned with the red dot. B (bulb)—In this setting, the shutter leaf is opend when the shutter release button is pressed, and will remain open until it is released. B is used when exposures of longer than one second are desired. The numbers 1 through 500 stand for fractions of a second. i. e. 1=1sec., 2=½ sec., etc. through 500=1/500 sec. The shutter dial is not turned between B and 500. (one-pivot nonrotating system)
For the correct speed, **ensure that the number is perfectly matched with the red dot.** Speed may be set either before or after advancing the film.

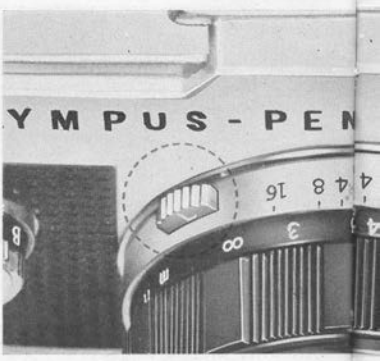
7 Lens release button (lens replacement):

Bayonet-mounted lenses for the Pen FV are easily removed and replaced. On the base of the lens, there are two buttons, one of which is marked with a red L (Lock). This is the lens release button.

First, hold the camera in the left hand and grasp the base of the lens with the right hand. Then press the lens release button with the thumb of the right hand and turn the lens in a clockwise direction until it stops. The lens is removed by pulling it away from the camera body.

To remount the lens, insert it carefully into the body, aligning the red mark (△) on the lens with the red dot on the body. Turn the lens in a counter-clockwise direction until the lens release button (L) returns with a click.

It is not necessary to move the lens release button when mounting the lens.



Lens dismounting





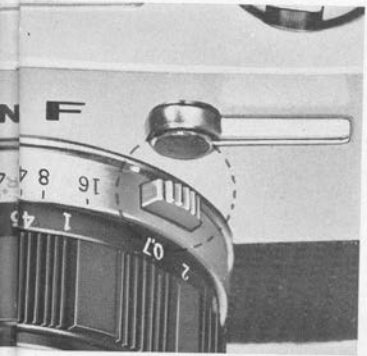
Lens mounting





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8 Pre-view button (to verify F/stop selection):





The unmarked button on the base of the lens is called the "Pre-view button". Even after the F/stop on the Pen FV is set, it will not close down to this opening unless the shutter release button is pressed. At all other times the lens diaphragm is wide open. This fully automatic diaphragm system allows focusing and framing at full brightness.

The pre-view button on the Pen FV closes the pre-set opening, making it possible to see the subject through the viewfinder with the same brightness as that of the F/stop setting. (See section 9 & 12, Depth of Focus & Distance Scale.) This ensures perfect focusing of both subject and background.

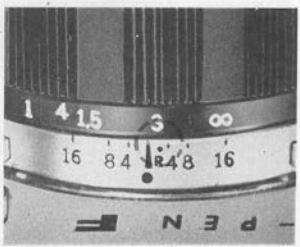
9 Reading the depth of focus scale:



The depth of focus is indicated by a set numbers; 4, 8 and 16; which correspond to lens openings and are written on each side of the red mark (△). Reading the depth of focus is explained by the following example: The distance between the camera and the subject is 3 meters and the F/stop setting is 16. Depth of focus is indicated between 16 to the left of the mark (1.5 m) and 16 to the right of the mark (∞)

The focused range can also be determined by pressing the pre-view button while viewing through the finder, as explained in Section 8.

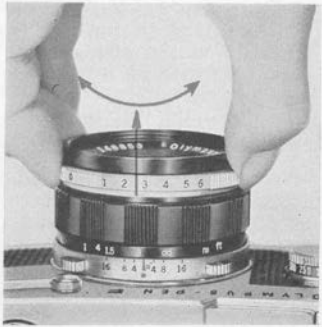
10 The "R" scale:



This is the infra-red indicator. To use infra-red sensitive film, set the focus first, and then reset the focus to be line to the "R" mark. Infra-red photography requires a red filter.

11 Lens aperture scale ring:





The ring which is around the top of the lens body is the lens aperture scale ring. It is numbered 1.8, 2, 2.8, 4, 5.6, 8, 11 and 16. The larger numbers indicate smaller aperture openings, and the converse. Turn this ring and align its numbers with the black dot to change the aperture opening.

- Unlike the shutter speed, the aperture may be set between numbers.
- Pull forward the F/stop ring and turn it around then you can set Through-The-Lens number on the upside.
  This Through-The-Lens number from 0 to 6 is for Pen FT.
- To verify complete setting, make certain that the two ends of the ring do not move after the ring has been set.

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12 Distance scale ring:

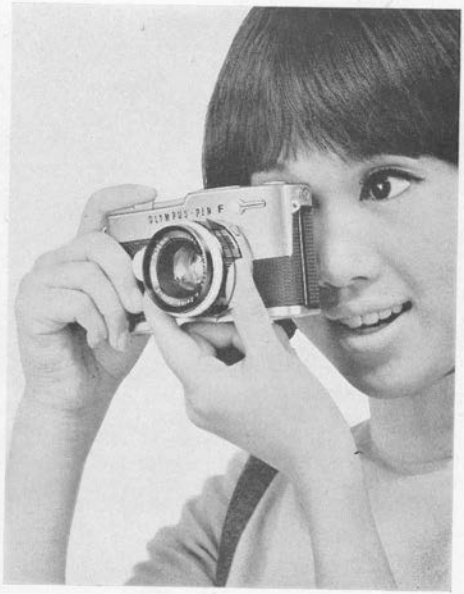
FV

While viewing through the finder, turn the distance scale ring in either direction until the subject is most clearly visible. Thanks to a microprism installed, you can get a sharp focus so easily. The shutter release button may then be pressed. Clear, sharp photography.

The distance scale ring has scales in two different colors; white (meters) and yellow (feet). These indicate distance between the camera and the subject in focus. A big feature of Pen FV is that it permits close-up photography up to 35 cm without use of any accessory.

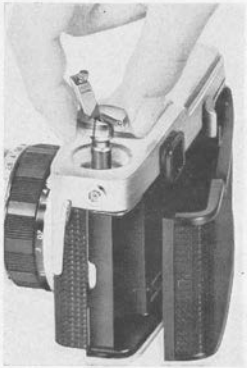




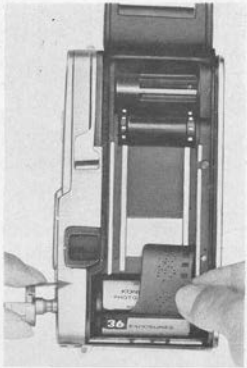


Loading the camera:

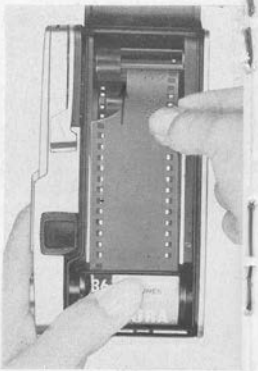
The Pen FV uses standard size 35 mm film, which is available anywhere.
The pictures are "Pen" size (15/16×11/16 inches), half of the 35 mm film size (13/8×17/8 inches). This size is very economical, especially for colored slides, because 72 pictures can be taken on a roll of 36 and 40 on a roll of 20.



1 Open the rear cover. (see page 9)

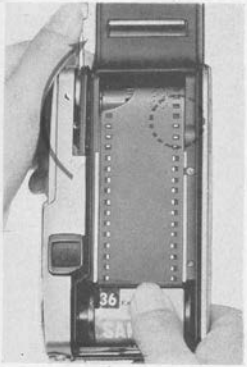


2 Put the film into the film compartment. If the rewind knob does not return to its home position, press it in while slightly turning it clockwise or counterclockwise; then it clicks in easily.

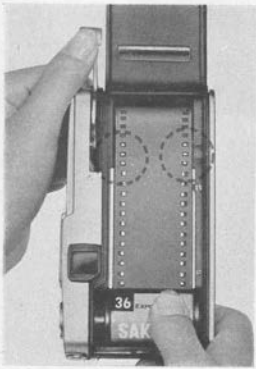


3 Hold and lead out the film a little with the right hand while slightly pressing the cartridge with the left hand and insert the film end into any of the six grooves on the take-up spool.

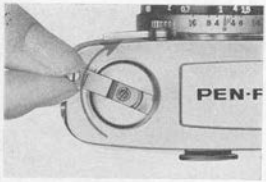
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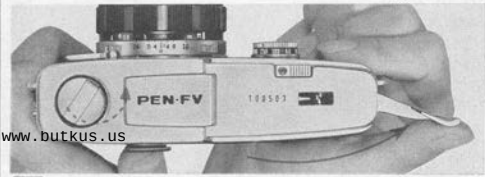
4 Advance the film so that the perforations engage the sprocket gear.
*When the film is inserted in, the film end may run out of the other side of the spool. Even in that case, continue to advance the film.



5 At this point, actuate the shutter and advance the film further so that the perforations on both sides engage with the sprocket gear.



6 Close the rear cover. 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.



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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.

Holding the camera properly:

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.



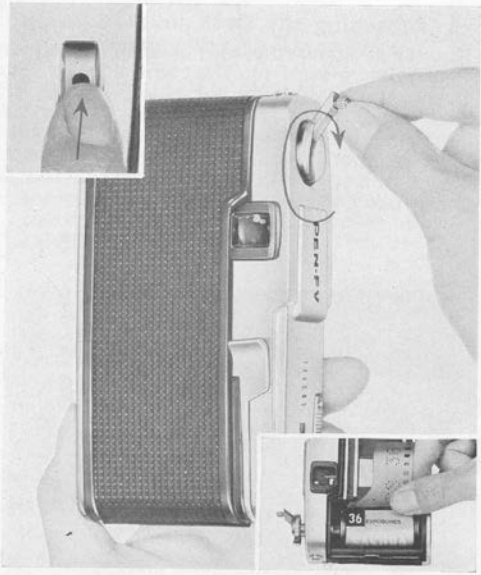
When holding the camera horizontally, keep both elbows close to your body (Illustration).



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

13 Rewind the film:

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When the whole roll has been exposed, cover the lens with the cap and rewind the film. To determine whether the whole roll has been exposed or not, check the film counter. It will show 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.

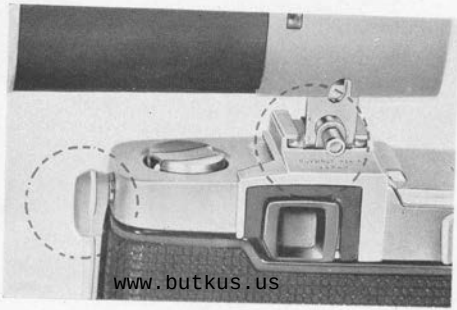
Towards the end of the roll of film, the advance lever may meet resistance and refuse to move halfway through the advancing stroke. This means that all the film is used up. Do not attempt to force the lever or you will damage the camera and tear the film. Press the rewind button and you can then complete the winding stroke. Do not try to take another picture but rewind the film

14 Flash photography:

Use either flash bulbs or an electronic flash under conditions of poor light, or darkness. Even in daylight photography, artificial light can be used to eliminate shadows caused by sunlight coming from behind the subject, or when the background is expansive.
The Pen FV, different from ordinary focal plane shutter cameras, can synchronize an electronic flash at any shutter speed from 1 to 1/500 of a second. This special feature makes it possible to use an electronic flash under daylight conditions.

1 Attaching the flash unit

The black coloured eyepiece of the viewfinder is slightly raised from the camera body, leaving space to slide in the bracket which holds the flash unit. This bracket is an optional accessory.
The plug of the flash unit goes into the synchronized socket on the side of the camera body. This is the X contact.



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2 Determine the shutter speed

The Pen FV shutter is the characteristic of X synchronization, but unlike orthodox focal plane shutter, it will synchronize with electronic flash at all settings. Ordinary M class flash bulbs, however, can be used only at shutter speeds of 1/30 sec. and slower. Special F class bulbs can be used at speeds of 1/60 sec. and slower.

Flash \ Shutter Speed	B	1	2	4	8	15	30	60	125	250	500
Electronic flash											
M Bulb											
F Bulb											

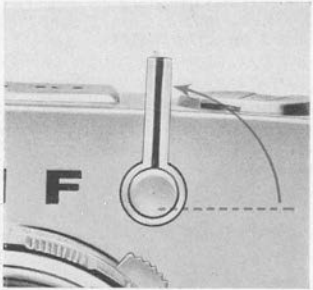
The above dark areas indicate the effective shutter speeds for electronic flash and for M and F bulbs.

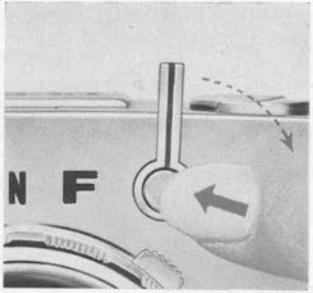
3 Determine the F-number.

The F-number is calculated by dividing the flash guide number by the distance to subject. For example, suppose the guide number for an ASA rating of 100 is 40 and the distance to subject is 5 meters, then F-number is at 8 since 40÷5=8.



15 Self-timer photography:





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 90 degrees upward.
2. Make certain the film has been advanced securely.
3. Press the start button at the center of 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 upward 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.

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- Avoid placing the camera near a television or radio set or in an iron container for an extended period of time.
- When the lens is removed, be careful not to put fingerprints on the mirror.
- The shutter screen is made from extremely thin metal and should not be touched. The shutter should be left in an open position (B) when the camera is not used for a long time.
- Do not leave the camera in dusty or damp places. Store it in a dry place with good circulation of air.
- Do not leave fingerprints on the lens. Wipe them off immediately with a clean piece of cotton cloth. If fingerprints are left on the lens for some time they are difficult to remove.

Note: It is not necessary to lubricate any part of camera.

●HIGH QUALITY OLYMPUS INTERCHANGEABLE LENSES

——EXCELLENT EYES OF THE PEN FV

These lenses will develop the versatility of the Pen FV and expand the pleasures of taking-pictures



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● ENRICHED RANGE OF INTERCHANGEABLE LENSES FOR OLYMPUS PEN FV

INTERCHANGEABLE LENSES			Lens Component (elements-groups)	Angle of View	Focal Length Equivalent to 35mm Camera	F Number	Minimum Distance	Filter	Weight
STANDARD LENS	H Zuiko Auto S	F1.2 f=42mm	8—6	39	60mm	1.2~16	35cm	49mm	255gr.
	G Zuiko Auto S	F1.4, f=40mm	7—6	41°	58	1.4~16	35	43	165
	F Zuiko Auto S	F1.8, f=38	6—5	43	55	1.8~16	35	43	135
WIDE ANGLE LENS	E Zuiko Auto W	F4.0, f=25	5—5	62	35	4~16	25	43	120
TELEPHOTO LENS	G Zuiko Auto T	F1.5, f=60	7—5	28	85	1.5~16	0.8m	49	270
	F Zuiko Auto T	F2.0, f=70	6—5	24	100	2~22	0.8	43	230
	E Zuiko Auto T	F3.5, f=100	5—4	17	143	3.5~22	1.5	43	250
	E Zuiko Auto T	F4.0, f=150	5—4	12	210	4~22	1.7	49	380
SUPER-TELE-PHOTO LENS	Zuiko Mirror T	F8.0, f=800	6—5	2	1,150	8	15	25.5	2kg
ZOOM LENS	Zuiko Auto Zoom	F3.5, f=50-90	10—8	34-19	70—130	3.5~16	1.5	49	420gr.
	Zuiko Zoom	F5 f=100-200	12—9	17-9	143—286	5~32	1.7	49	700

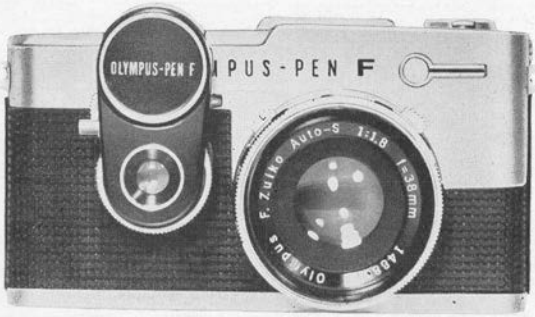
Exposure meter:

FV

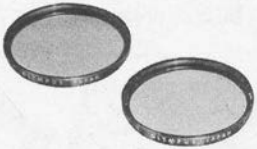
The Pen FV exposure meter is recommendable for you to obtain such accurate lightning conditions as required with for colour picture and close-up photography.
The exposure meter is a dual-range CdS meter, designed to be compactness and easy to handle. It couples directly with the shutter speed dial of the Pen FV and gives you right exposure value, when clipped onto the camera. It may be hand-held for reading with other cameras.



Exposure Meter clipped onto the Pen FV.



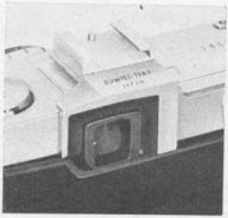
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Filters	UV, Y2
43mm	1A
49mm	81C, 82C
	Conversion A



Lens hood



Accessory shoe



Set case



Eye correction lens adapter

Eye correction lens



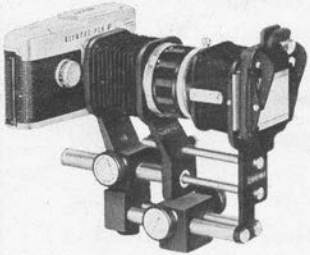
Attachment lens
(close-up lens)
f=30cm & f=40cm



Extension tube



Extension ring set



Bellows attachment
Slide copyer
Camera slider



Pen up 3

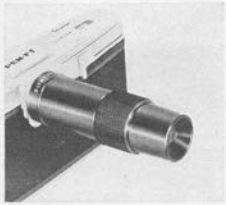


Microscope adapter



Pen stand
(Pen F copy stand)
Light arm

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Magnifier



Angle finder



Angle-magnifier

Praktica mount adapter

Exakta mount adapter

Leica mount adapter

Nikon mount adapter



Pen slide projector 2

Cooler (Blower)

Auto slide changer

Strip film carrier

Pen slide mount



Japan : Olympus Optical Co., Ltd.
7, 3-chome, Kanda Ogawamachi
Chiyoda-ku, Tokyo

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39-22, 30th Street, Long Island City
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