

PETRI

FLEX

V



Sign of GOOD DESIGN

INSTRUCTION BOOK

THE SPECIAL FEATURES OF PETRI FLEX V

TYPE: Fully-Automatic Diaphragm Penta Prism Single Lens Reflex Camera with Instant Return Mirror.

FILM SIZE: 35mm film (20 or 36 exposures)

PICTURE SIZE: 24mm×36mm.

STANDARD LENS: PETRI 55mm F2, Color-corrected Lens.

SHUTTER: Focal Plane Shutter.

SHUTTER SPEEDS: B, 1/2, 1/4, 1/8, 1/15, 1/30, X, 1/60, 1/125, 1/250, 1/500 sec. Single-Piv Non-Rotating Dial.

VIEW-FINDER: Penta Prism Viewfinder with Built-in Micro-image Focusing.

FILM TRANSPORT: Single-stroke (180°) rapid transport lever which automatically transports the film and cocks the shutter simultaneously.

INTERCHANGEABLE LENS: Bayonet Type Interchangeable Lenses can be attached to the camera.

SYNCHRONIZATION: FP & X Synchronization (JIS Type-B)

OTHER FEATURES: Automatic-Resetting Film Counter, Crank-type Film Rewinding, Built-in Selftimer etc.

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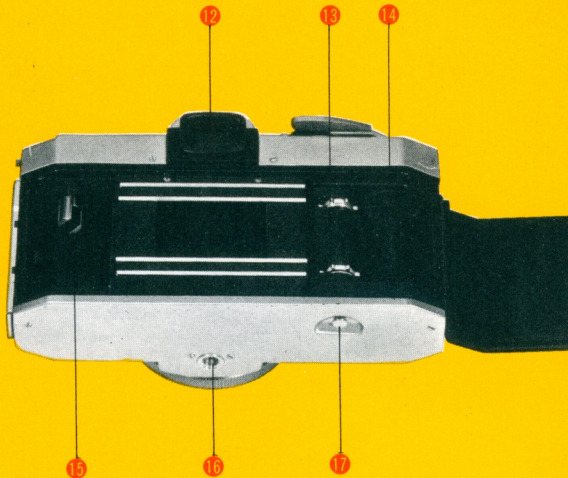
DESCRIPTION OF PARTS



1. FILM WINDING LEVER
2. SHUTTER SPEED DIAL
3. FULLY-AUTOMATIC RELEASE RING
4. SYNCHRO-SWITCH (FP & X)
5. AUTOMATIC EXPOSURE COUNTER
6. FILM REWIND CRANK
7. FLASH SOCKET
8. SELFTIMER LEVER
9. SHUTTER RELEASE BUTTON
10. PETRI F2 55mm LENS
11. NECK STRAP LOOP



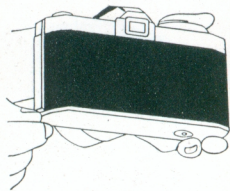
- 19. DISTANCE SCALE
- 20. APERTURE SCALE
- 21. DIAPHRAGM SCALE
- 22. MANUAL AND AUTOMATIC
DIAPHRAGM SWITCH RING
- 23. BAYONET MOUNT



GETTING READY FOR PHOTOGRAPHY

The following preparations are needed before your picture-taking...

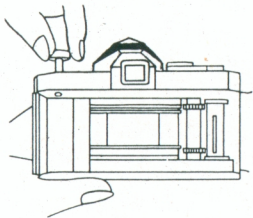
- (1) Load the film into your camera.
- (2) Advance the film and release the shutter button.
Repeat this action. (2 exposures)
- (3) Look to see if the Fully-Automatic Diaphragm Ring fits on the mark AUTO. Now you are ready to take picture.
- (4) Be sure if the lens cap is uncovered.
- (5) Adjust the exposure by setting both Diaphragm and Shutter Speed Scale.
- (6) Cock the film advance lever.
- (7) Decide the picture-composition by focusing it through the viewfinder.
- (8) Release the shutter button.
- (9) Repeat the same action (from 6 to 8) at every picture-taking.
- (10) Rewind the film when the roll of film is all exposed.



OPENING THE CAMERA BACK

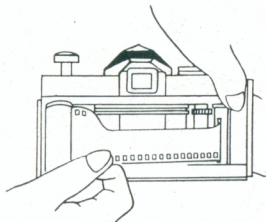
Pull down the lever with your thumbnail to open the camera back. At the same time, the film resetting counter automatically returns to zero.

FILM LOADING



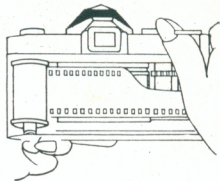
PULLING OUT THE KNOB

Pull out the film rewind knob on the top of camera. This is to allow the cassette to be put into the cassette chamber.



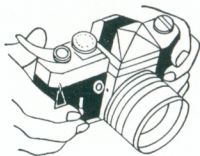
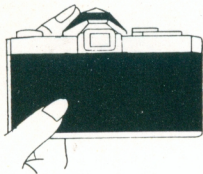
FILM LOADING

Slip the 1st perforation of film from the end into the slot on the take-up spool so that the end is fastened by fitting the perforation to the tooth of the take-up spool.



ADVANCE THE FILM LEVER

Advance the film advance lever a little to see if the spool catches the film.



A



B

CLOSING THE CAMERA BACK

The camera back will automatically be closed by pushing it.

RELEASE SHUTTER BUTTON TWICE

Release the shutter button and advance the film lever. Do this action twice, and you are ready for taking the first picture. Just release the button to take your first picture.

- A. As you open the back, the counter automatically returns to "O" point.
- B. When you release the shutter for the 1st picture, the counter shows "S" mark.

CARE IN FILM-LOADING

- Use 35mm film in cassette for PETRI FLEX V camera.
- Avoid direct sun-light and select a shaded place for film-loading.
- When you slip the end of film into the slot of the take-up spool, turn the spool so that it can catch the film perforation easily.
- As you advance the film winding lever, the film rewinding crank turns in the opposite direction to the arrow-mark if the film is properly loaded. When the film in cassette is loose, it does not turn.
- So turn the rewind crank to the arrow direction to tighten the film if you wish to test if the film is transporting correctly.
- The second advance of the film should be done just before your picture-taking.

HOW TO USE THE FILM EXPOSURE COUNTER

The FILM EXPOSURE COUNTER is the device to show the number of frame exposed. The number will be advance automatically whenever you release the shutter release button after cocking the film advance lever. Thus it always tells you accurately how many pictures you have taken. As the counter automatically resets to Zero, you do not have to worry about resetting the counter yourself after loading in a fresh film.

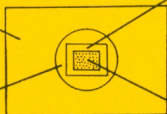


HOW TO LOOK THROUGH THE VIEWFINDER AND FOCUS

The perfect combination of Fresnel Lens and Condenser in the viewing system equipped with PETRI FLEX V is the creation of PETRI's unique engineering know-how. As the precision Focusing elements in the viewing system is so precisely engineered, you can focus in the viewfinder very easily. This precision focusing system consists of a group of micro-prism as shown in the centre of the picture. As you look through the micro-prism in the finder, you can see the subject clearly **ONLY** when it is correctly

Image can be seen in correct focusing condition and to compare focusing within micro-lenses to get standard image in proper focus.

Whole area of viewing covering 92% of actual picture size

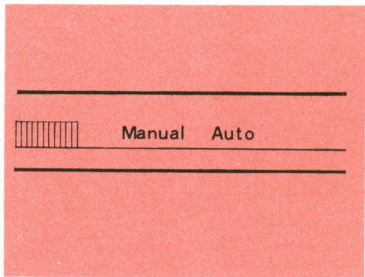


Zone to see the depth of field of lens in use (You can see accurate image range at f11 setting)

*Image in micro-prism can be seen accurately **ONLY** when it is correctly focused*

focused, as you turn the focusing ring and you will notice an out-of-focus image at once as you move the ring while looking through the viewfinder. In order to confirm whether focus is correct, move camera slightly to right and left and if the image in the micro-lenses can still be seen clearly, then it is properly focused. A strong point of Single Lens Reflex cameras is that you can see the depth of field of the lens in use as you photograph. Compare the image within the micro-prism with the one within the outer frame zone where you can see the ground-glass image to get proper focusing. The circle zone around micro-lenses is the area where you can even see the field depth of interchangeable lenses as well as standard lens. Also you can focus image through this zone.

As described previously the whole area of viewfinder consists of a fresnel lens and condenser. It concentrates dim light coming from lens to your eye and with viewfinder you can always take bright picture in every corner even with small aperture of lens.

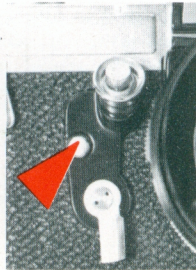
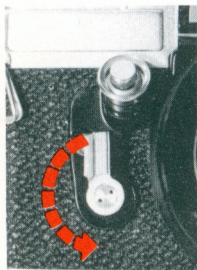
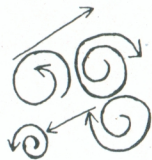


How to Handle the FULLY-AUTOMATIC & MANUAL DIAPHRAGM

- Look at the Fully-Automatic Diaphragm Ring. Turn the ring until the mark "AUTO" comes to the top of the lens ring and the camera sets for "Fully-Automatic Diaphragm" Operation. Usually this position should be kept. When releasing the operation, turn the ring until the mark, "MANUAL", comes to the top of lens ring.
- In "Fully-Automatic Diaphragm" Operation, the lens is fully-opened at all times and only when you release the shutter button, the F stop value of the aperture can be obtained. The steady opening of lens makes you to focus a subject very easily, but when you want to look through the subject in the desired aperture, release Fully-Automatic Diaphragm and look through the outside of double-circle in the center of viewfinder, after giving the desired aperture by manual. You can take a picture with the release of Automatic Operation.

HOW TO USE THE SELFTIMER

- Pull down the selftimer lever to the bottom (180°) as shown in the picture on the right and release the button as shown in the picture on the left, then about 11 seconds after your releasing the button the frame will be exposed.
- You can set the selftimer inbetween to shorten the release time, releasing the shutter button in the same way.
- The selftimer setting can be made either before or after your advancing the film wind lever.
- Selftimer can be used on all shutter speeds except the B setting.
- Selftimer is useful for the group pictures in which the photographer joins after releasing the button. It is also useful for Close-up and Micro-photography. In this case, the use of tripod is recommendable.

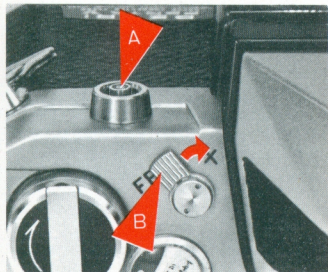


FLASH PHOTOGRAPHY

A subject in dim light can be photographed by using flashbulbs synchronized with the shutter. As the picture A shows, in order to take Flash Photography, first of all, connect the cable of the flashgun to flash socket. The flash-gun can easily be attached to FLEX V if you use the PETRI Accessory Shoe.

When you use F-class, M-class Flash-bulb or

Electronic flash, set the Synchro-switch lever to X-mark (See picture B) and when using FP-class flashbulb, you have to switch the lever to FP mark. Referring to the table, set the shutter speed and decide F Value of Diaphragm according to what type of flashbulb you use and the distance to the subject. Now you are ready to release the shutter button.

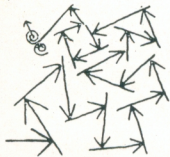


TABLE

	$1/500$	$1/250$	$1/125$	$1/60$	X	$1/30$	$1/15$	$1/8$	$1/4$	$1/2$	B
FP	FP class (Screw mount)										
	FP class (Bayonett)										
X							F class bulb				
							M class bulb				
							Speed Light				

How to hold your PETRI FLEX V

Hold the camera body with your right hand firmly and touch the shutter release button lightly with your right index finger so that you can release the button smoothly. Support the lens focussing ring from the bottom with your left hand so that you can make the focussing adjustment smoothly.

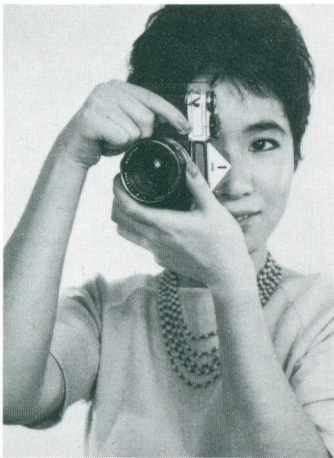


Hold your camera steadily to avoid blurring the picture when releasing the shutter
(See the picture)

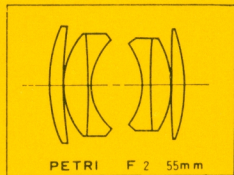
Horizontal Position



Vertical Position

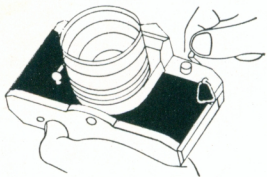


PETRI LENS



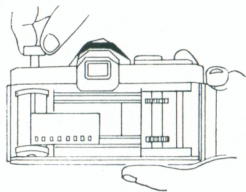
The standard lens equipped with PETRI FLEX V camera is a High-quality, High-speed PETRI 55mm 4 group 6 element lens using Lanthanum flint high reflective index glass. This PETRI LENS has high resolving power even at its full aperture. It is equally suitable for black-&-white and colour photography.

Rewind the film when you have finished the cassette



REWINDING THE FILM

Pull out the rewind crank and turn it in the arrow direction while pressing the return button located at the bottom of camera body. Be sure that the film is completely rewound into the cassette.



REMOVING THE FILM

Pull out the rewind knob to remove the cassette.

FILM UNLOADING

DEPTH OF FIELD TABLE (Petri F2 55mm Lens)

FNO meter	2	2.8	4	5.6	8	11	16
0.6	0.592 0.607	0.589 0.611	0.585 0.615	0.579 0.622	0.572 0.630	0.561 0.644	0.544 0.668
0.7	0.689 0.710	0.685 0.715	0.679 0.722	0.671 0.731	0.659 0.745	0.647 0.762	0.623 0.797
0.8	0.786 0.814	0.780 0.820	0.772 0.829	0.762 0.841	0.747 0.860	0.730 0.883	0.701 0.931
1.0	0.978 1.022	0.969 1.032	0.957 1.046	0.941 1.066	0.917 1.098	0.892 1.136	0.848 1.248
1.2	1.168 1.233	1.156 1.247	1.138 1.268	1.115 1.298	1.082 1.346	1.047 1.404	0.986 1.532
1.5	1.450 1.553	1.431 1.575	1.403 1.610	1.368 1.658	1.319 1.737	1.267 1.836	1.177 2.065
2.0	1.911 2.096	1.878 2.137	1.831 2.203	1.771 2.296	1.688 2.451	1.603 2.655	1.461 3.167
3.0	2.804 3.225	2.733 3.325	2.632 3.486	2.600 3.728	2.345 4.611	2.183 4.792	1.925 6.790
5.0	4.475 5.663	4.295 5.980	4.056 6.529	3.765 7.440	3.404 9.408	3.071 13.437	2.581 79.491
10.0	8.093 13.082	7.519 14.920	6.797 18.910	6.025 29.377	5.148 17.361	4.419 ∞	3.466 ∞
∞	42.444 ∞	30.321 ∞	21.222 ∞	15.160 ∞	10.611 ∞	7.918 ∞	5.305 ∞

FNO. feet	2	2.8	4	5.6	8	11	16
2	1.97 2.02	1.96 2.03	1.94 2.05	1.92 2.07	1.90 2.11	1.86 2.15	1.81 2.23
2.5	2.45 2.54	2.44 2.56	2.41 2.58	2.38 2.62	2.34 2.67	2.29 2.74	2.20 2.88
3	2.94 3.06	2.91 3.08	2.88 3.12	2.83 3.18	2.77 3.26	2.70 3.36	2.58 3.58
4	3.89 4.11	3.85 4.16	3.79 4.23	3.71 4.33	3.60 4.49	3.48 4.69	3.27 5.13
5	4.83 5.17	4.76 5.25	4.67 5.37	4.55 5.53	4.38 5.80	4.21 6.14	3.91 6.92
6	5.75 6.26	5.66 6.37	5.53 6.55	5.36 6.79	5.13 7.21	4.89 7.74	4.49 9.02
8	7.57 8.47	7.41 8.68	7.18 9.01	6.91 9.48	6.52 10.33	6.14 11.47	5.51 14.58
12	11.05 13.11	10.71 13.62	10.25 14.47	9.68 15.76	8.94 18.21	8.23 22.11	7.13 37.82
30	24.67 38.21	23.04 42.92	20.49 55.90	18.71 75.47	16.11 215.70	13.92 ∞	11.01 ∞
∞	139.31 ∞	99.54 ∞	64.69 ∞	49.76 ∞	34.83 ∞	25.99 ∞	17.41 ∞

PETRI Exchangeable lenses

PETRI F3.5 135mm Telephoto Lens

■ Just PRESS the shutter release button, and the camera does the rest...

As you release the shutter button, the camera

- sets the aperture you have preset.
- lifts up the mirror.
- release the shutter blind to expose the film.
- returns the mirror to the original position...
- sets the diaphragm back to the fully opened position...

all AUTOMATICALLY and INSTANTLY.

■ You can photograph a distant-view very easily.

Petri F 3.5 135 mm Lens is versatile. When you want to photograph a distant view, Petri F 3.5 135 mm Lens is indispensable. You can shoot it as if you are taking close land-scape. Add your portrait-photography more powerful appeal by taking the advantage of Petri F 3.5 135 mm Lens.



■ Super-sharp Color-corrected Telephoto Lens

This fantastic Telephoto Lens is made of special glass of amber-coated and has high resolving power to get ultra-sharp pictures EVERY TIME. And this lens also good for color photography.

F3.5 35mm wide Angle Lens

This lens is ideal for wide view architectural photography and group pictures. When working in a restricted space too, this lens is especially useful. In candid work, its great depth of field is most helpful.



F4.5 200mm Telephoto Lens

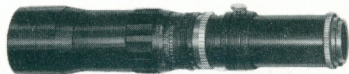
This lens is ideal for nature photography, sports and action photography of all kinds.



F5.5 300mm Telephoto Lens

F6.3 400mm Telephoto Lens

Close-up from a distance are simple with this lens, which gives outstanding clarity in all distance work. A lens which will delight both professional and enthusiast.



**You can enjoy the variety in your picture-taking when you use
PETRI Interchangeable Lenses.**



Extension Tube and Copy
Stand are available for
PETRI FLEX V.

The following Interchangeable Lenses are available for PETRI FLEX V camera. PETRI F3.5 135mm Fully-Automatic Diaphragm Telephoto Lens, F3.5 35mm Fully-Automatic Diaphragm Wide Angle Lens, Manual Preset Diaphragm F4.5 200mm Telephoto Lens, F5.5 300mm Telephoto Lens, F6.3 400mm Telephoto Lens and F8 500mm Telephoto Lens are available. Manual Preset Diaphragm Interchangeable Lens can be attached to PETRI FLEX V camera with the specially-designed Adapter Ring. PETRI Exclusive Adapter Ring is also on sale.





35mm



135mm



55mm



500mm



ACCESSORY SHOE



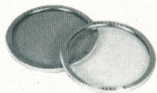
Sturdy and versatile screw-in type Accessory Shoe attachment for flash-gun, exposure meter and others is another PETRI FLEX V exclusive. It can be attached to the camera body very easily by just screwing it into Accessory Shoe Hole.

LENS HOOD



PETRI FLEX V LENS HOOD has been carefully designed to prevent stray light from entering the lens of camera. It is constructed of light alloy metal and smartly styled of round shape to enhance the beauty of your PETRI FLEX V. Complete with ever-ready carrying leather case.

FILTERS



To insure perfect picture in all kinds of light condition, use PETRI FILTERS; Y1, Y2 for outdoor human and landscape, YA3, R1 for distant view and sky, PO1 for human portrait, UV for absorbing Ultraviolet Rays. For color-photography, W4, C4, C8, C12 are available.

PETRI Camera Company, Inc.

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