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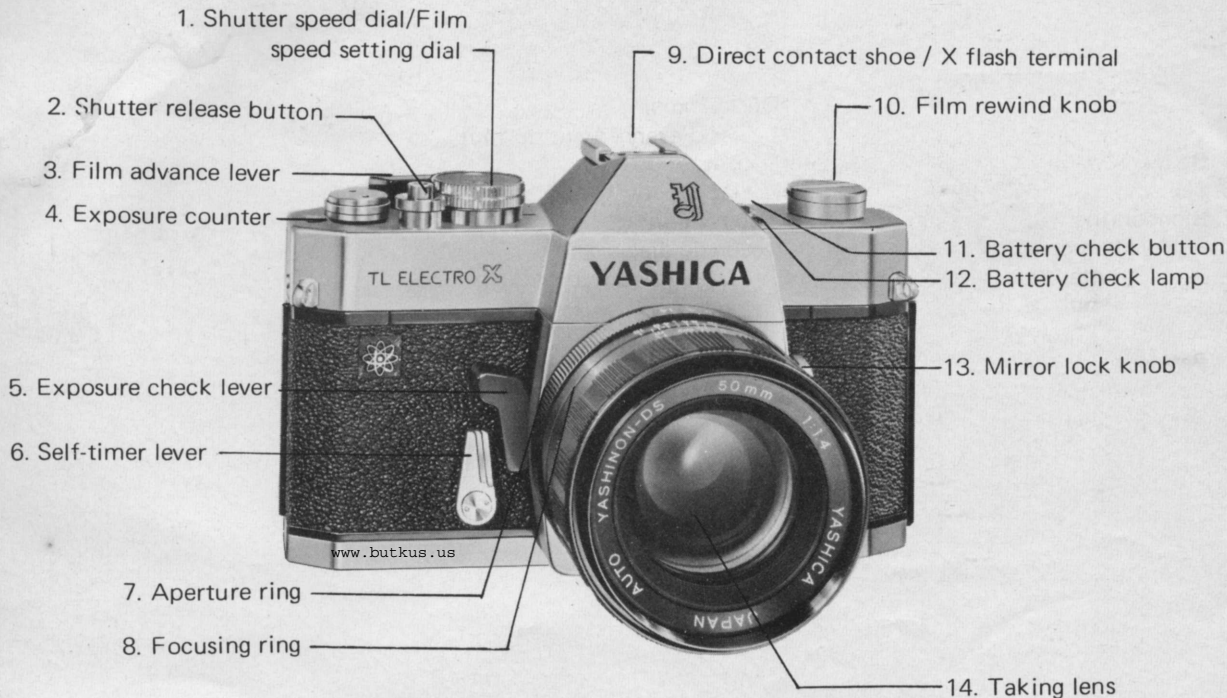
YASHICA

TL ELECTRO-X

INSTRUCTION BOOKLET GEBRAUCHSANWEISUNG
MODE D'EMPLOI FOLLETO DE INSTRUCCIONES



DESCRIPTION



1. Battery compartment cover

1. Batterieabteil-Deckel

1. Couvercle du boîtier de Pile

1. Tapa del compartimiento de la pila

5. Finder eyepiece

5. Sucher-Okular

5. Oeilleton du viseur

5. Ocular del visor

6. Sprocket

6. Filmtransportrad

6. Roue à rochet

6. Rodillo dentado

7. Take-up spool

7. Aufwindspule

7. Bobine réceptrice

7. Carrete arrollador

2. "FP" flash sync. terminal

2. "FP" Synchronisations-Blitzlicht-Anschluss

2. Prise synchro FP

2. Terminal de sincronización de flash "FP"

3. "X" flash sync. terminal

3. "X" Synchronisations-Blitzlicht-Anschluss

3. Prise synchro "X"

3. Terminal de sincronización de flash "X"

4. Back cover lock lever

4. Rückenverriegelung

4. Verrou de dos d'appareil

4. Palanca de cierre de la tapa posterior

8. Film rewind button

8. Filmrückspulkurbel (knopf)

8. Bouton de débrayage pour le reboinage

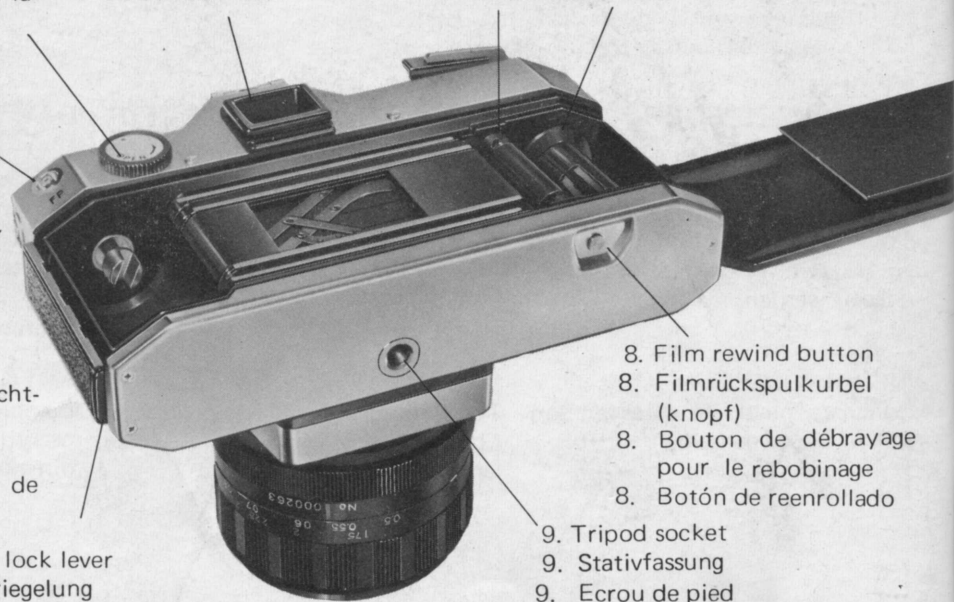
8. Botón de reenrollado

9. Tripod socket

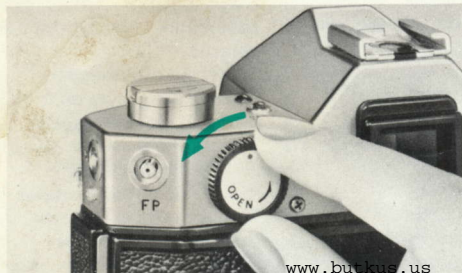
9. Stativfassung

9. Ecrou de pied

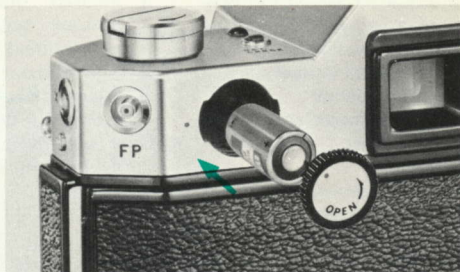
9. Receptáculo del trípode



LOADING BATTERY

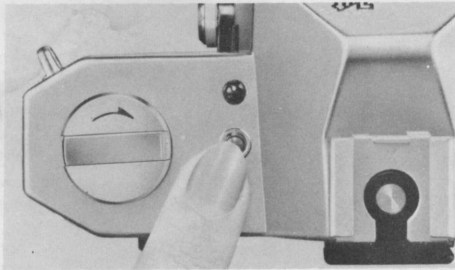


1. Remove the battery compartment cover by turning it in the direction of the arrow and install a 6V silver oxide battery. (Eveready No. 544, Mallory PX-28 or equivalent).



2. Make sure that the (-) side faces inside. If the battery is installed in a reverse position, the Electronic Exposure Readout will not function. Close the battery compartment cover securely.

CHECKING BATTERY



If the battery is weak, the Electronic Exposure Readout will not operate correctly. Before shooting, check the battery condition. Press the battery check button and when the green lamp lights, the battery has sufficient power to operate the exposure control system. Replace the battery when the green lamp does not light.

NOTES

ON SILVER OXIDE BATTERY

- When the battery is installed incorrectly,
 - 1) The green lamp will not light when the battery check button is depressed.
 - 2) The shutter speed will be 1/1000 sec. when the shutter release button is depressed.
- Do not throw used silver oxide battery into the fire, trash cans or waste receptacles.
- Do not disassemble the silver oxide battery or leave it where children can get access to it.

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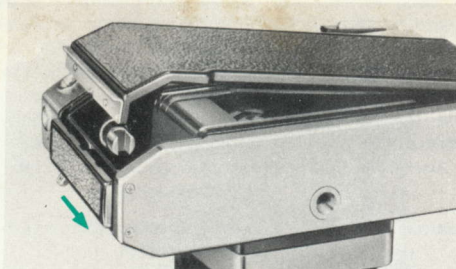
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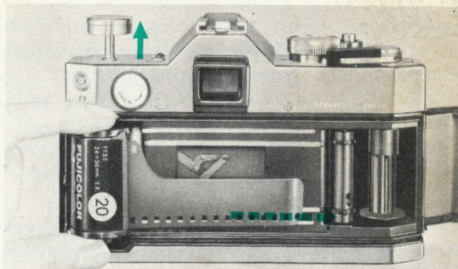
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1

LOADING FILM



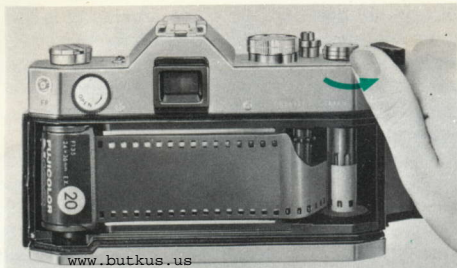
1. Pull out the back cover lock lever and the cover will pop open. The exposure counter will be automatically set at S (start) mark.



2. Pull out the film rewind knob, place the film cassette into the film chamber and replace the rewind knob to its original position. Insert the film leader into one of the slots of the take-up spool.

NOTE:

Always load the film under a shade or in subdued light, never in direct sunlight.



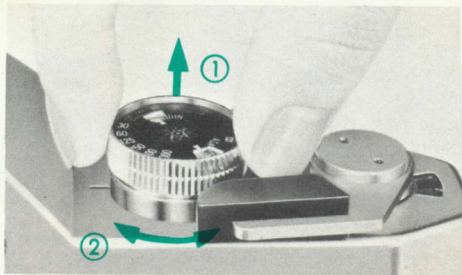
3. Advance the film, making sure the sprocket teeth properly engage the perforations of the film. Close the back cover.



4. Wind the film advance lever and make blank exposures until the figure "1" appears in the exposure counter window. You're now ready for the first exposure.

2

SETTING FILM SPEED

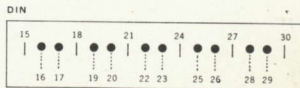
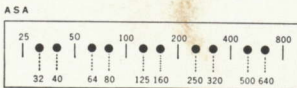


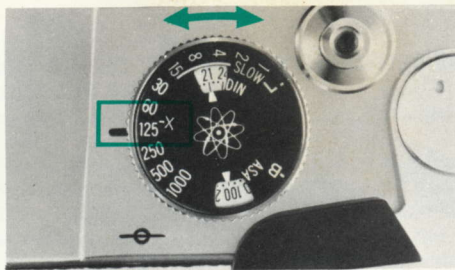
1. Lift the film speed setting ring.
2. Turn the film speed setting ring to align the ASA/DIN speed of the film in use with the triangle index mark.

The ASA/DIN rating denotes the degree of light sensitivity of the film emulsion and is clearly indicated on the box or the instruction which comes with the film.



Film speed scale





- Preselection of Shutter Speed

In bright light, preselect the shutter speed by turning the shutter speed dial. Depress the exposure check lever and turn the aperture ring to obtain the correct exposure.



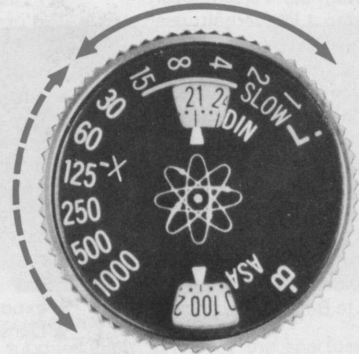
- Preselection of Aperture

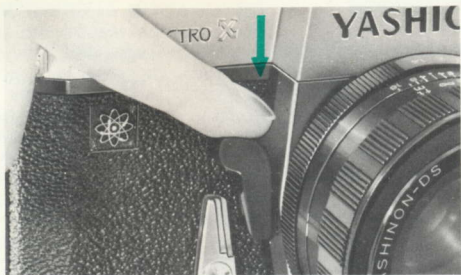
In subdued light, preselect the aperture. Depress the exposure check lever and turn the shutter speed dial to obtain correct exposure.

- In either operation, correct exposure is assured.

ELECTRONIC SHUTTER SYSTEM

The electronic shutter system provides intermediate speed range at in-between setting. The shutter speed dial has click-stops at each setting between 1/1000 sec. and 1/30 sec.. When taking pictures either of fast moving subjects or in bright sunlight, it may be easier and better to preselect the shutter speed. Then, obtain correct exposure by turning the aperture ring. On the other hand, in the slower shutter speed range between 1/30 sec. and — index mark (approx. 2 secs.) there are no click-stops. When taking pictures in dim light, preset the lens opening. Then, obtain correct exposure by turning the shutter speed dial.



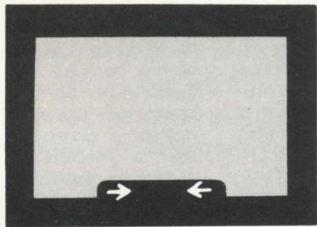


The red exposure warning arrows indicate exposure corrections.

Sight through the finder, keeping the exposure check lever depressed. One of the red UNDER or OVER exposure warning arrows appears in the lower part of the finder.

In the preselection of shutter speed, rotate the aperture ring for correction of exposure setting. And in preselection of aperture, adjust the shutter speed dial.

In either case, correct exposure is obtained when the arrows go out.



Over-exposure

Under-exposure

OVER-EXPOSURE

Turn the aperture ring or the shutter speed dial in the direction of the arrow in the viewfinder until the left exposure warning arrow goes out. If the arrow fails to turn off, use an ND filter.

UNDER-EXPOSURE

Turn the aperture ring or the shutter speed dial in the direction of the arrow in the viewfinder until the right exposure warning arrow goes out. If the arrow fails to turn off, use a larger aperture or a slower shutter speed. Or the use of a flash unit is recommended. When using a slow shutter speed under 1/60 sec., the use of a tripod is advised.

Light conditions & Subjects	Measuring Procedures	Shutter Speeds & Apertures
Fair: Fast moving subjects	Preselection of shutter speed	1/1000, 1/500, 1/250 sec.
Hazy: Moving subjects	Preselection of shutter speed	1/250 & 1/125 sec.
Overcast: Rainy	Preselection of shutter speed	1/60 & 1/30 sec.
Indoors: Dim light	Preselection of aperture	Select large aperture
Special cases		"B" setting

4

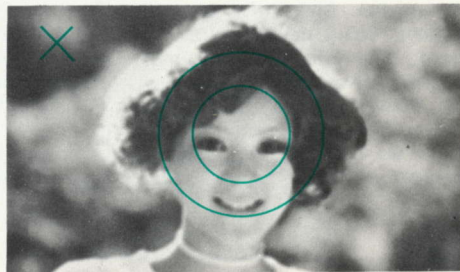
FOCUSING



Look through the finder and turn the focusing ring until the image on the focusing screen appears clear and crisp.



In focus

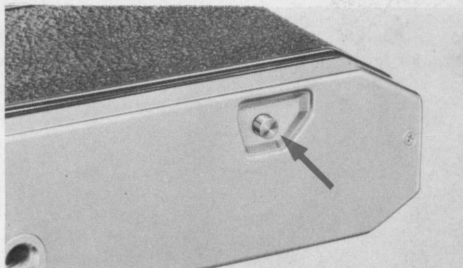
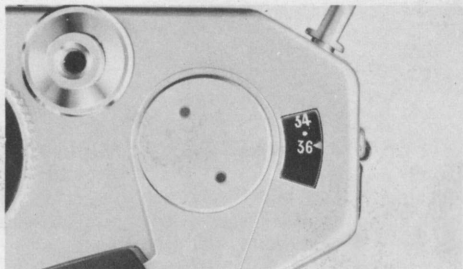


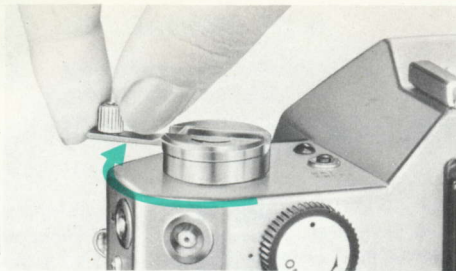
Out of focus

UNLOADING FILM

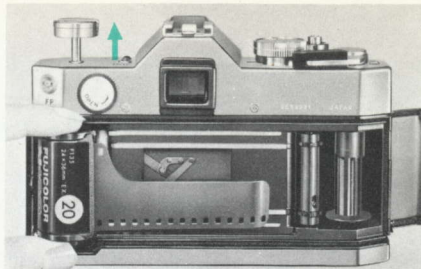
When the film has been completely exposed, rewind the film and take out the film cassette. If you should forget this procedure and open the back cover, the film will be fogged.

1. Do not try to advance the film when a resistance is felt; it may tear or come loose from the cassette making it impossible to rewind. Push the film rewind button on the camera base.





2. Fold out the crank-handle on the film rewind knob and turn it in the direction of the arrow. A slight resistance will be felt when the film pulls off the take-up spool, but continue winding the crank-handle until you feel the film pulling away from the slot of the take-up spool.



3. Open the back cover and take out the film cassette.

FEATURES OF TL ELECTRO-X

- Lens: Auto Yashinon 50mmf/1.4; stops down to f/16
- Shutter: Electronically-operated focal plane shutter with speeds from B, SLOW (about 2 seconds) to 1/1000 sec.; intermediate shutter speed setting optional; self-timer plus FP-X sync.
- Exposure Control: Thru-the-Lens CdS light measuring system; Electronic Exposure Readout (exposure warning arrows suggest exposure corrections): ASA range 25-800; a 6V silver oxide battery is used to power the exposure control system and electric-operated focal plane shutter.
- Viewfinder: Reflex viewfinder with microprism focusing spot, ground-glass collar for depth of field analysis; focusing from 0.5 meter (1.75 feet) to infinity; exposure warning lamps visible in the viewfinder
- Film Transport: Ratchet-type, single-stroke film advance lever; automatic resetting exposure counter
- Other Features: Battery checker, Mirror lock, Direct contact shoe, Multi-slot take-up spool for easy and fast loading
- Lens Shade: 57mm slip-on type
- Filters: 55mm screw-in type
- Dimensions: 151 x 96 x 96.4mm
- Weight: 1050 grs.
- Models with f/1.7 and f/1.9 f/2.0 are also available.

CARACTERISTICAS DE LA TL ELECTRO-X

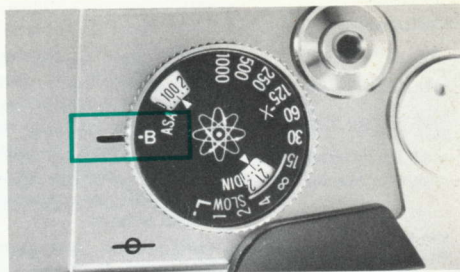
- Objetivo: Auto Yashinon 50mm, f/1.4, abertura minima de f/16
- Obturador: Plano focal de funcionamiento electrónico, con velocidades de obturación desde "SLOW" (lenta) (de 2 segs. aproximadamente) hasta la de 1/1000 seg., posición B; velocidades de escala intermedia, posicional; auto-disparador y sincronización FP-X.
- Control de exposición: Sistema de medición de luz a través del objetivo y lectura electrónica (las flechas de aviso de exposición indican las correcciones de exposición): apto para ASA 25-800: se usa una pila de óxido de plata de 6V para el sistema de control de exposiciones y el obturador del plano focal actuado eléctricamente.
- Visor: Visor reflex con punto de enfoque tipo "microprisma", dispositivo analizador de cristal esmerilado para profundidades, enfoque de alcance de 0.5 metros a infinito, y flechas de advertencia de exposición visible en el visor.
- Avance de la película: Palanca tipo trinquete de un solo movimiento y contador de tomas de vuelta a cero automática.
- Otros: Probador de pila; seguro del espejo; portaaccesorios de contacto directo; carrete arrollador con varias ranuras que facilita la carga de película.
- Parasol para el objetivo: 57 mm, tipo postizo
- Filtros: 55 mm, tipo roscado.
- Dimensiones: 151 x 96 x 96.4 mm.
- Peso: 1050 grs.
- También hay disponible el objetivo de f/1.7 y f/1.9 f/2.0

SLOW SHUTTER "B" SETTING



When using shutter speeds slower than 1/30 sec., the use of a tripod and a cable release is recommended.

Caution: At an intermediate setting between SLOW and B settings, the Electronic Exposure Readout will not function. Do not set the shutter speed dial between SLOW and "B" settings.



"B" Setting

When a long exposure is required, set the shutter speed dial at "B" setting. At this setting, the shutter remains open over the duration the shutter release button is depressed. For long exposure, the use of a tripod and a cable release is recommended.

EXPOSURE SETTING WHEN SHOOTING AGAINST LIGHT



Exposure set in the normal manner



Exposure reading taken by approaching the main subject

When shooting against light or photographing a subject near a window, or against an excessively bright background such as snow-covered landscapes, the main subject is liable to appear extremely dark (under-exposed) if the exposure is set in the normal manner.

To obtain sparkling results in such case, approach your main subject and take exposure reading by seeing to it that the bright light in the background is warded off from the lens.

In case the main subject cannot be approached, it's necessary to give from twice to four times the normal exposure.

If the normal setting is $f/16$ at $1/125$ sec., set the aperture at $f/11$ at $1/125$ sec. or at $f/11$ at $1/60$ sec.. In the above circumstance, disregard the left exposure warning arrow when taking the picture.

HOW TO HOLD THE CAMERA

1. Hold the camera and sight through the viewfinder.
2. For exposure setting, depress the exposure check lever with index or middle finger of the right hand and rotate the aperture ring with the thumb and index finger of the left hand.

KAMERAHALTUNG

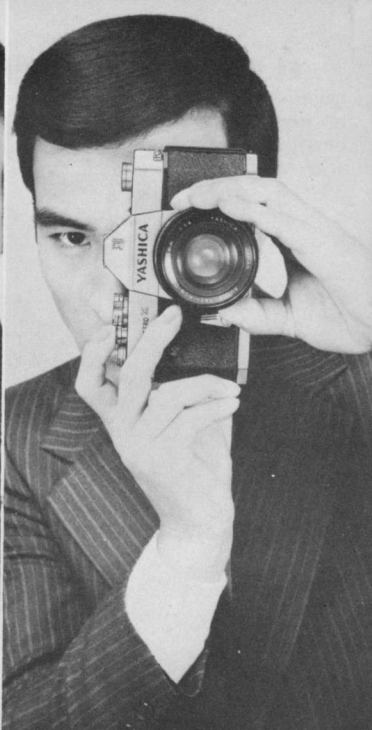
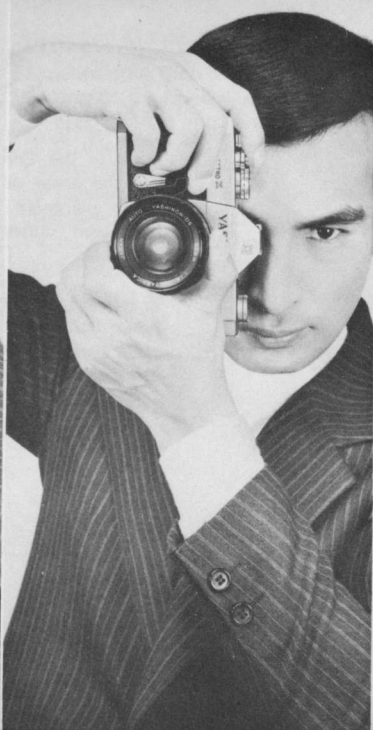
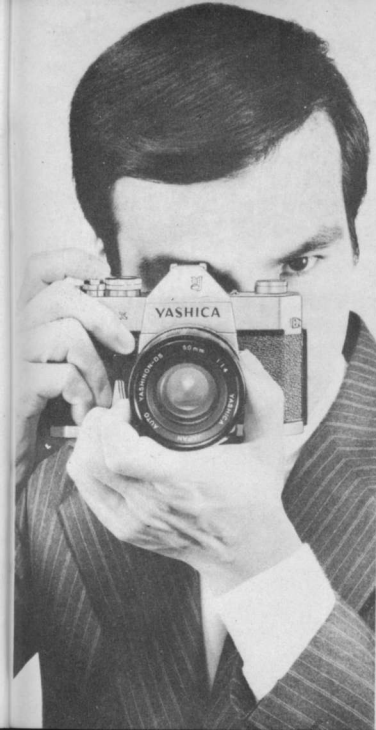
1. Kamera vors Auge halten und durch den Sucher blicken.
2. Zur Belichtungsmessung drücke man den Belichtungsmeßhebel mit Zeige-oder Mittelfinger der rechten Hand. und drehe den Blendenring mit Daumen und Zeigefinger der linken Hand.

COMMENT TENIR L'APPAREIL

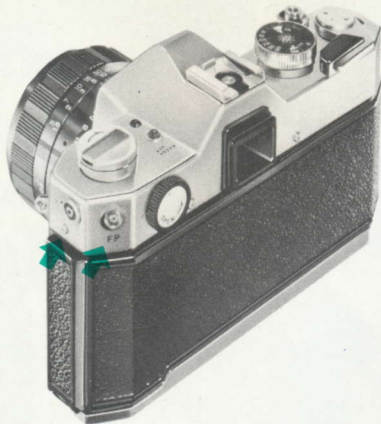
1. Prendre l'appareil et viser.
2. Pour le réglage du temps de pose, appuyer sur le levier de contrôle d'exposition avec l'index ou le médium de la main droite, et faire tourner la bague du diaphragme avec le pouce et l'index de la main gauche.

MANERAS DE SOSTENER LA CAMARA

1. Sostenga la cámara y mire a través del visor.
2. Para ajustar la exposición, apriete el dispositivo verificador de exposición con el índice o el corazón de la mano derecha y de vueltas al regulador de aberturas con el pulgar o índice de la otra mano.



FLASH PHOTOGRAPHY

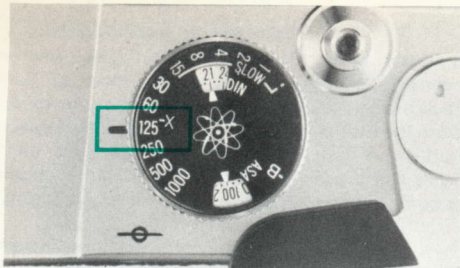


● X FLASH SYNC. TERMINAL

Two "X" Sync. terminals are provided. One of them is the Direct Contact Accessory Shoe, and the other on the side of the camera body. When using an Electronic flash or ordinary flash unit, connect the synchro cord to "X" terminal.

● FP FLASH SYNC. TERMINAL

When using ordinary flash unit with FP or M class bulbs, connect synchro cord to "FP" terminal.



Flash Mark X

When using an electronic flash unit, always set the shutter speed dial to this X setting. The shutter speed is set at about 1/90 sec.

Synchronizing shutter speeds are as follows:

Flash Terminal	Type of Flash Unit	1000 500 250 125 (-X) 60 30 15 8 4 2 1 B
FP	FP MF(AG-Type) M	
X	Electronic flash MF(AG-Type) M	

EXPOSURE SETTING

Correct exposure setting in flash photography is obtained through the guide number for flash bulb or electronic flash unit in use. The guide number is shown on the package of the flash bulb or on the body of electronic flash unit. Divide the guide number by the camera-to-subject distance.

$$\frac{\text{Guide Number (32)}}{\text{Distance (2 meters)}} = f/16 \text{ (Correct aperture)}$$

$$\frac{\text{Guide Number (100)}}{\text{Distance (6.6 feet)}} = 15.1 - f/16 \text{ (Correct aperture)}$$

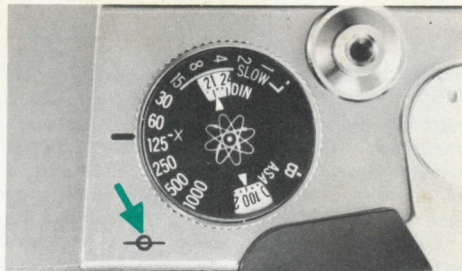


INFRARED FILM PHOTOGRAPHY



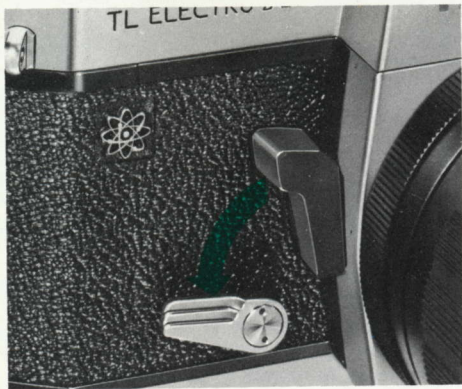
The red dot is used when taking a picture with infrared film. For infrared photography, focus your camera in the ordinary manner and then set the distance reading to the red dot.

FILM PLANE MARK



The red mark on the camera top indicates the position of the film plane. Strictly speaking, the camera-to-subject distance means the distance from the film plane to the subject. In close-up photography, measure the distance from the film plane mark to the subject.

SELF-TIMER



1. Give the film advance lever a full turn to charge the shutter.
2. Charge the self-timer by shifting the self-timer lever all the way down.
3. Depress the shutter release button and the self-timer trips the shutter at a delayed action of 8 to 10 seconds.

NOTES:

When the self-timer does not function, even if the shutter release button is depressed, it's because the shutter is not charged. Charge the shutter by advancing the film advance lever and press the shutter release button.

MIRROR LOCK



Push the mirror lock knob upward in the direction of the arrow to flip up the mirror and lock it in position. To return it to its original position, turn the knob down.



This mirror lock system permits mounting of ultra wide-angle lens.

DEPTH OF FIELD



The area in the foreground and background over which objects appear acceptably sharp when you focus your camera on a subject at a given range is called the "Depth of Field." As shown here, the depth of field is more extensive when the lens is stopped down (right photo) than at full aperture (left photo). The depth of field can also be determined by referring to the depth of field scale on the lens barrel. If the subject is at a distance of two meters and an aperture setting of $f/16$ is selected, all objects within the range indicated by the figures 16 on both sides of the red index mark (approx. 1.5 to 3.2 meters) will appear acceptably sharp in the picture.



$f/1.4$



$f/16$

The depth of field is more extensive . . .

- when the lens is stopped down.
- when you focus your camera on a distant subject.
- in the background than in the foreground.

INTERCHANGING OF LENSES



The Yashica interchangeable lenses from wide-angle to telephoto feature screw-thread mounts and can be mounted or dismounted rapidly.

NOTES:

You should interchange the lens in subdued light, never in direct sunlight.

CARE AND MAINTENANCE OF YOUR CAMERA

- Keep the inside as well as the outside of your camera clean. Use a soft clean cloth.
- If the front surface of the lens need cleaning, first, blow away any dust or grit from the surface. Then, clean it with a soft, lintless cloth.
- The use of an UV filter is recommended for protection of the taking lens.
- Avoid storing the camera with the film-advance lever wound and shutter charged.
- Do not keep the camera in the glove compartment or trunk of the car.
- Do not dismantle the camera or the lens for cleaning them.

UNTERRALT UND PFLEGE IHRER KAMERA

- Das Kamera-Innere und die Außenoberflächen von Staub frei halten. Zum Reinigen ein weiches sauberes Tuch verwenden.
- Wenn die Oberfläche des Objektivs gereinigt werden muss, zuerst angesammelten Staub wegblasen und alsdann mit einem sauberen, nicht fuselnden Tuch reinigen.
- Zum Schutz des Objektivs ist die Verwendung eines UV-Filters empfehlenswert.
- Sicherstellen daß der Verschluss ausgelöst und die Filmtransportkurbel nicht aufgezogen ist, wenn die Kamera für längere Zeit nicht verwendet wird.
- Die Kamera nicht im Handschuhfach oder im Kofferraum Ihres Wagens aufbewahren.
- Bei der Reinigung der Kamera, diese nicht in deren Teile zerlegen.

ENTRETIEN DE L'APPAREIL

- Conserver propres, l'intérieur et l'extérieur de votre appareil. Utiliser pour le nettoyage un chiffon doux et propre.
- S'il est nécessaire de nettoyer la lentille frontale de l'objectif de l'objectif.
- Ne pas ranger l'appareil avec l'obturateur armé.
- Ne pas mettre l'appareil dans la boîte à gants ou le coffre de la voiture.
- Ne pas démonter l'appareil ou l'objectif pour les nettoyer.

CONSEJOS UTILES

- Mantenga limpia la cámara tanto por su parte interior como por la exterior. Use un paño suave y limpio.
- Cuando el objetivo requiere una limpieza, quite el polvo soplándolo y limpie luego la superficie con un paño suave y sin hilachas.
- Es recomendable la aplicación de un filtro ultravioleta para proteger el objetivo.
- Cuando guarda su cámara, no deje montado al obturador ni enrollada la palanca de avance de la película. No deposite su cámara en la guantera portaequipajes del automóvil.
- No desmonte la cámara ni el objetivo para limpiarlos.

Pioneer in Electronic Cameras

 **YASHICA CO., LTD.**

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