

# Chinon CM-7

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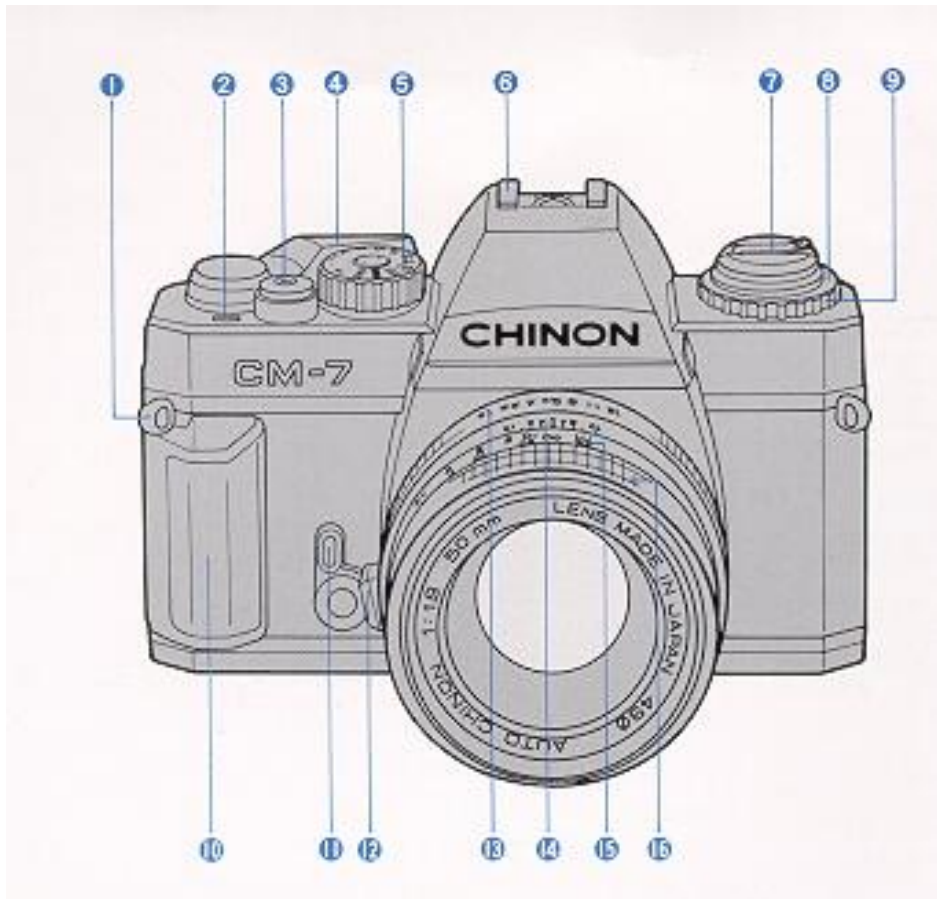


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# NOMENCLATURE



**1. Shoulder strap eyelet**

**2. Frame counter**

**3. Shutter release button**

**4. Film advance lever**

**5. Shutter speed dial**

**6. Hot shoe**

**7. Film rewind knob/back cover opener**

**8. Film speed index**

**9. Film speed dial**

**10. Hand grip**

**11. Self-timer lever**

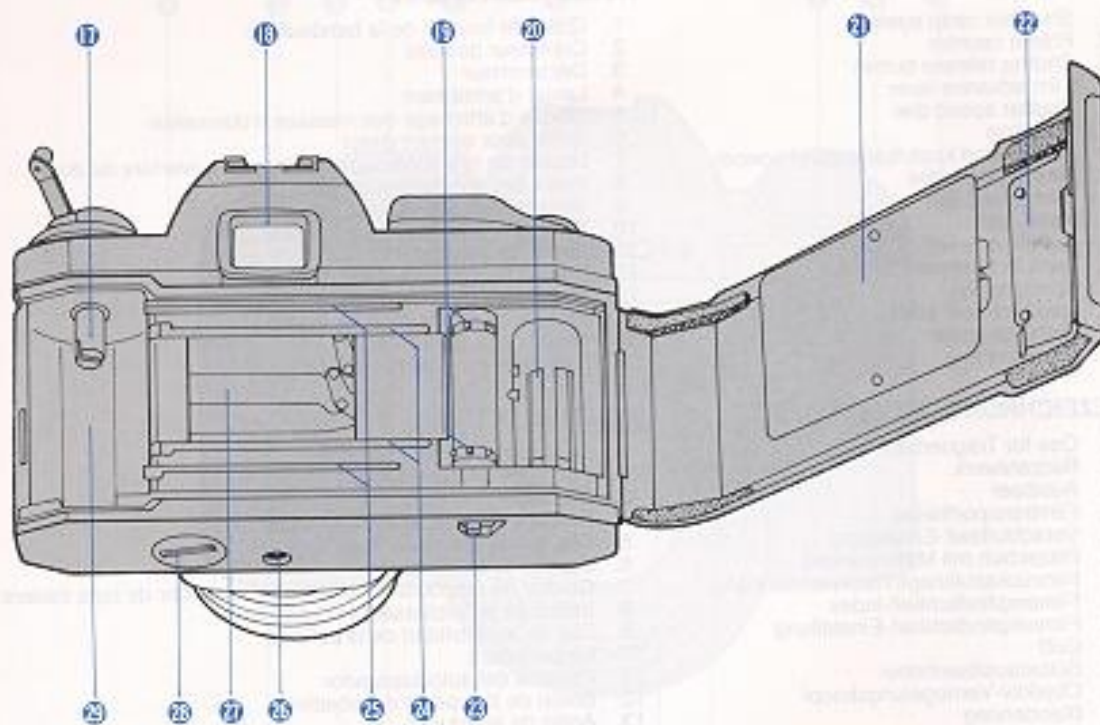
**12. Lens lock release button**

**13. Aperture ring**

**14. Depth-of-field scale**

**15. Distance scale**

**16. Focusing ring**



**17. Rewind shaft**

**18. Viewfinder eyepiece**

**19. Sprocket teeth**

**20. Take-up spool**

**21. Film pressure plate**

**22. Back cover**

**23. Rewind button**

**24. Film rail**

**25. Film guide rail**

**26. Tripod socket**

**27. Shutter**

**28. Battery compartment cover**

**29. Film chamber**

## SPECIFICATION

**Type:** 35 mm SLR camera with LED type light measuring system.

**Picture Format:** 24 x 36 mm.

**Lens Mount:** Chinon universal bayonet mount (K, KA, RK mount compatible).

**Shutter:** Vertical run metal focal plane shutter, mechanical release.

**Shutter Speeds:** 1 - 1/2000 sec., "B".

**Flash Synchronization:** Hot-shoe, X contact, 1/125 sec.

**Viewfinder:** Fixed eye level pentaprism, central split image with micro prism collar and ground glass.

**Viewfinder Magnification:** 0.86x (@50 mm, infinity)

**Viewfinder Visibility:** 93%

**Dioptric Factor:** - 1.0 diopter

**Displays in Viewfinder:** Red + mark LED (overexposure), green (dot) mark LED (correct exposure), red (dot) mark LED (under exposure)

**Exposure Metering:** TTL center weighted full aperture system employing one CdS, 3-step exposure indicator with 3 LEDs.

**Exposure Range:** EV +3 - EV +20 (F1.4 50 mm, ISO 100).

**ISO Range:** 25-1600 (DIN 15-33) by 1/3 step.

**Film Advance:** Single stroke in an arc of 130° with 30° stand off.

**Film Counter:** Automatically indicates number of exposures and resets to "S" when camera back is opened.

**Film Loading:** Multi-slot take-up spool type.

**Film Rewind:** By depressing the rewind button and cranking the rewind lever.

**Release Lock:** Shutter release button is interlocked with the advance lever stored at unused position.

**Cable Release:** Possible.

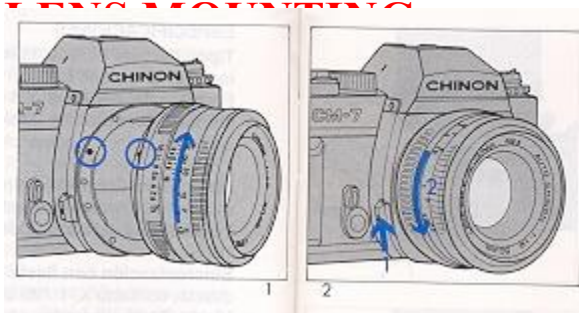
**Self-Timer:** Built in, approximately 10 sec. delay.

**Power Source:** Two 1.5V alkaline batteries (LR44) or silver oxide batteries (SR44).

**Body Dimensions:** 133(W) x 85(H) x 50(D) mm. (5.24" x 3.35" x 1.97")

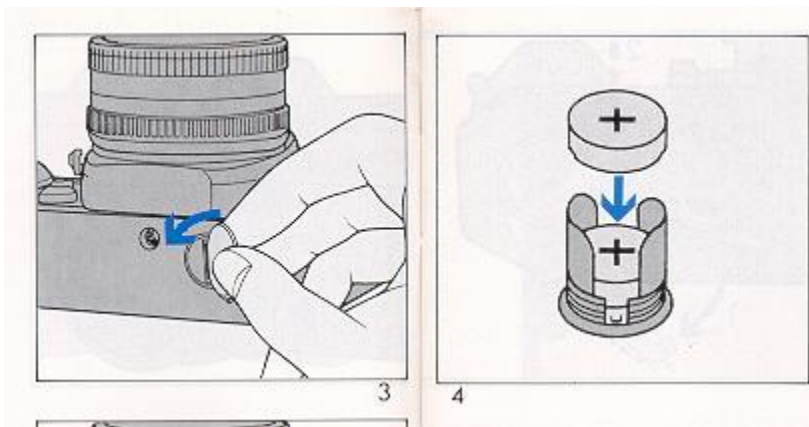
**Body Weight:** 410 grams (14.5 oz).

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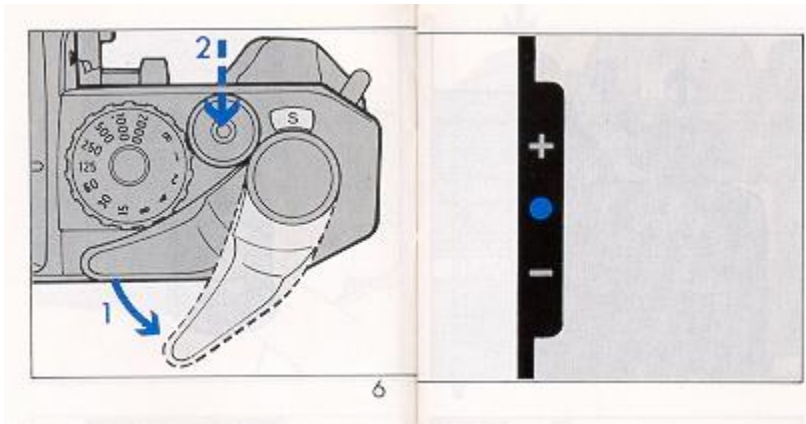
Your CM-7 is equipped with a CHINON "K" bayonet mount which accepts all interchangeable lenses with the "K" bayonet. To attach the lens, match the red dot on the camera body and turn it clockwise until the lens locks with a click. To remove the lens from the camera body, depress the lens lock release lever, turn the lens counterclockwise as far as it will go and lift it up from the body (Fig. 1, 2).

## INSTALLING THE BATTERIES



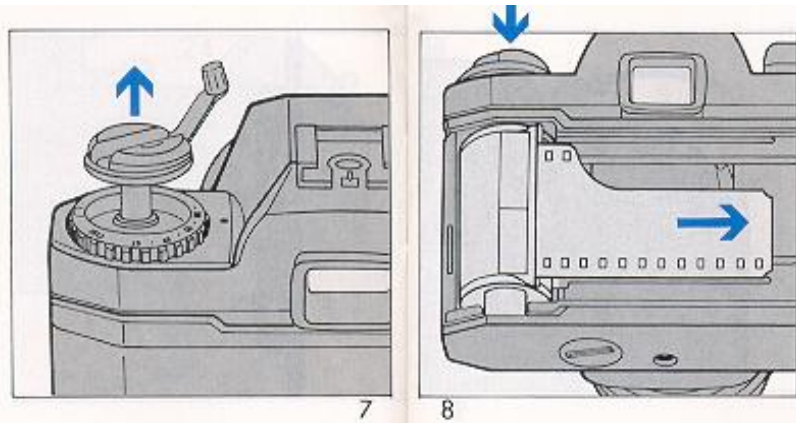
1. By using a coin, unlock the battery compartment cover by turning it counterclockwise (Fig. 3).
2. Place two 1.5 V alkaline batteries (LR44, A76) or two 1.5 V silver oxide batteries (SR44, S76, G13) with the minus (-) side touching the cap (Fig. 4).
3. Turn the battery compartment cover clockwise until it closes firmly (Fig. 5). NOTE: Clean the batteries with a dry cloth or paper before inserting and thereafter at regular intervals. Make sure that the batteries are inserted correctly, i.e., check polarity. The shutter will operate only when the batteries are correctly installed and not exhausted. Keep the batteries out of reach of children.

## BATTERY TESTING



Pull the film advance lever to the stand-off position or fully wind it to activate the meter switch, and set the shutter speed dial to any setting other than "B" and press halfway the shutter release button. If the batteries are in good condition, one of the three LED's located inside the viewfinder will illuminate (Fig. 6). If an LED fails to illuminate, the batteries are too weak and need to be replaced, or are incorrectly installed.

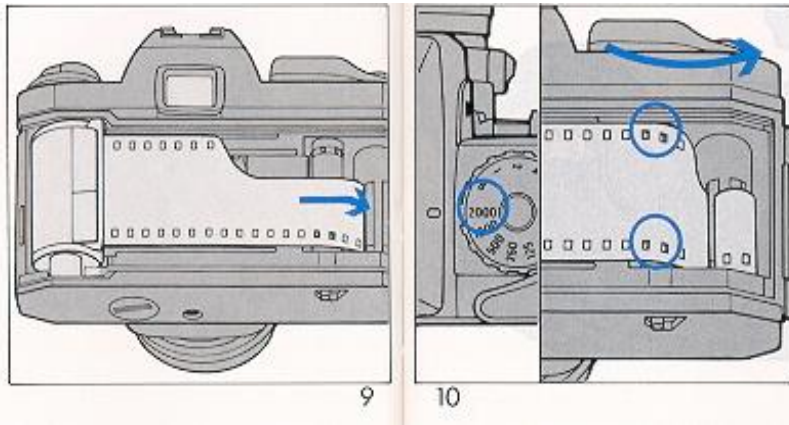
## FILM LOADING



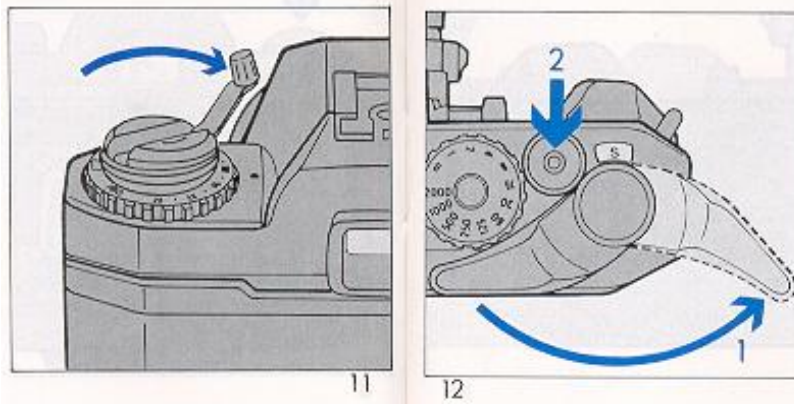
**Your CM-7 camera can be used with any kind of 35 mm film.**

1. Pull up the film rewind knob until the camera back pops open (Fig. 7)
2. Then, insert a film cartridge into the film chamber with the protruding end of the cartridge positioned toward the bottom of the camera.
3. Push down the film rewind knob and slightly turn the knob in either direction until it "seats" properly into the film cartridge spool (Fig. 8).





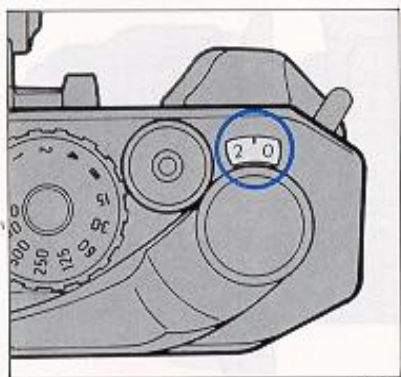
4. Insert the trimmed end of the film into one of the slots on the take-up spool (Fig. 9).
5. Turn the shutter speed dial to any setting and advance the film while holding the film lightly down on to the transport sprocket teeth.
6. Release the shutter if necessary and advance the film until the sprocket teeth engage with the upper and lower perforations of the film (Fig. 10).
7. Close the back cover firmly until it locks with a click.
8. Turn the film rewind knob gently clockwise until all the slack is taken up and the rewind knob stops. Do not force or further rewind the film (Fig. 11).



9. Advance the film and release the shutter three times (Fig. 12).

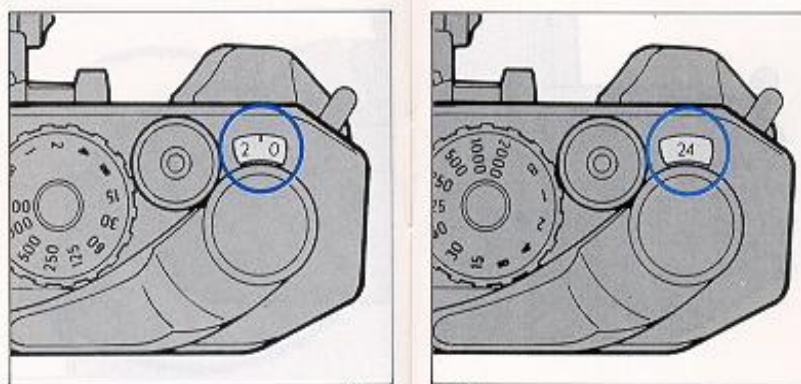
**The rewind knob should rotate counter clockwise as the film is advanced and the "1" (between O and 2) marking should appear in the frame counter window after "O" (Fig. 13).**





13

## FRAME COUNTER



14

14

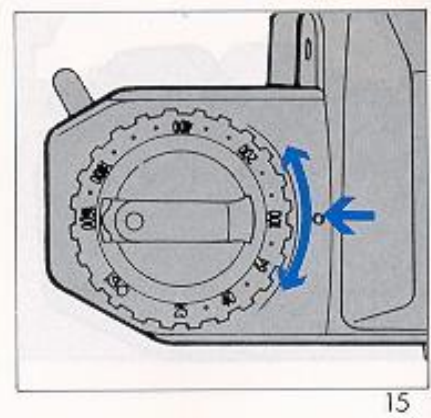
Your CM-7 is equipped with a frame counter which displays the number of exposures made and resets automatically to "S" (start position) upon opening the back cover.

When a film is loaded according to the procedure previously described, the counter displays "1" (between 0 and 2) indicating that the camera is ready for the first exposure. Every time the film advance lever is turned, the counter will proceed one stop forward. The number 12, 20, 24 and 36 are colored in red to warn the end of commonly available films (Fig. 14).

## ADVANCING THE FILM

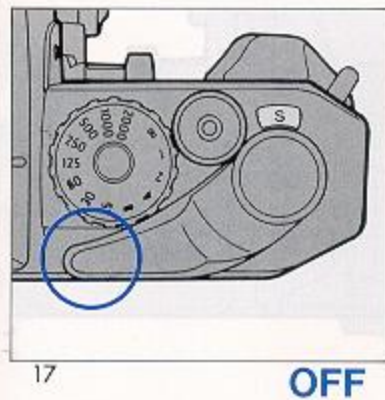
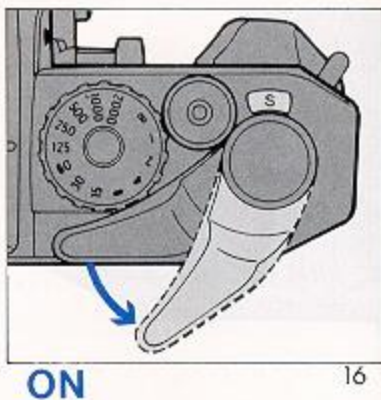
Make sure the film has been loaded properly. Operate the film advance lever through a full stroke. When the film end is reached, the film advance lever may stop before the lever is fully turned. Do not force the lever. Stop winding at once and rewind the film. Refer to "Unloading Exposed Film".

## FILM SPEED SETTING



The film speed is specified on the box or in the instruction sheet packed with the film. Set the film speed (ISO number) index by turning the film speed dial according to the value indicated on the film (Fig. 15).

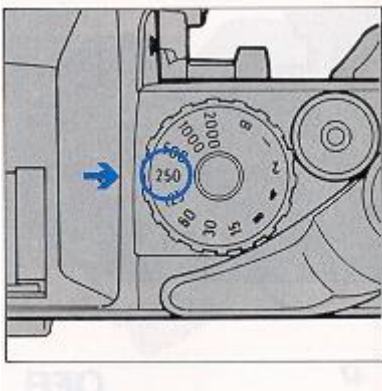
## RELEASE LOCK



Pull the film advance lever to the stand-off position (Fig. 16) or fully wind it to activate the meter switch when taking pictures. When the film advance lever is returned to the storage position (Fig. 17) the shutter is locked to prevent accidental release. When not in use, return the film advance lever to this original position.

## EXPOSURE SETTING I

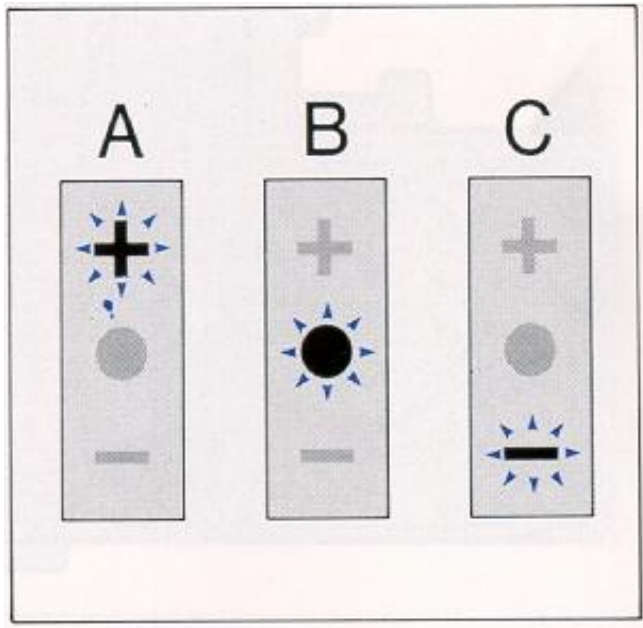
(emphasizing shutter speed)



1. Place the film advance lever in the ready position (the stand-off position) and rotate the shutter speed dial so that the indicator white line aligns with the desired shutter speed value. When the dial is set at

intermediate positions of the index, the shutter speeds will be incorrect. Be sure that the dial clicks at the position where the white line aligns with the desired shutter speed. When the dial set is at the "B" (bulb) position, exposure metering is not possible.

2. With brighter subjects, fast moving subjects or with high rated film speeds, it is recommended to use fast (higher) shutter speeds.



3. To adjust exposure, depress the shutter release button halfway and rotate the aperture ring until the green ~ mark lights up in the viewfinder. When the red + or - mark lights up, rotate the lens aperture ring to have a greater or smaller F- number, respectively.

**A: Over Exposure B: Correct Exposure C: Under Exposure**

## **EXPOSURE SETTING II**

**(emphasizing aperture)**

1. Place the film advance lever in the ready position (stand-off position) and rotate the lens aperture ring until the index on the lens barrel indicates the desired f-stop.

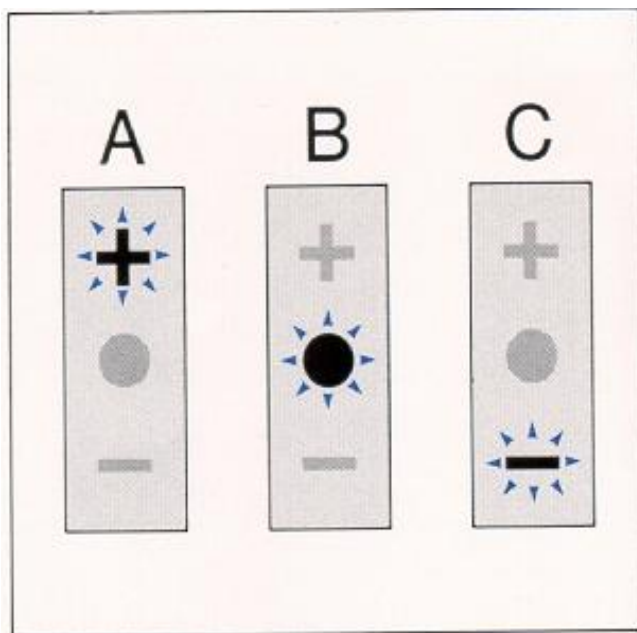
2. The suitable aperture value changes according to the brightness of the subject, the depth-of-field desired, or the film speed or shutter speed in use. The typical settings of the aperture with ISO 100/21° film are as follows:

\* Sunny day outside: F/8 - F/16

\* Cloudy day outside: F/4 - F/5.6

\* Inside (without flash): F/1.9 - F/2.8

3. To monitor exposure, depress the 3 shutter release button halfway and rotate the shutter speed dial until the green ~ mark lights up in the viewfinder. When the red + or - mark lights up, rotate the shutter speed dial to have a faster or slower shutter speed, respectively. Make sure the shutter speed dial clicks into the closest shutter speed mark.



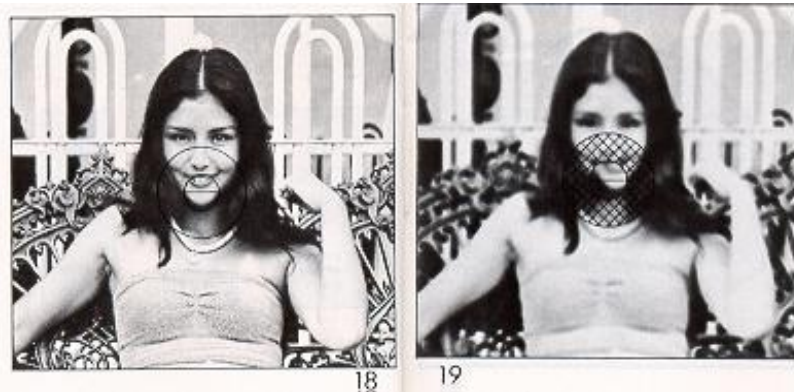
**A: Over Exposure**

**B: Correct Exposure**

**C: Under Exposure**

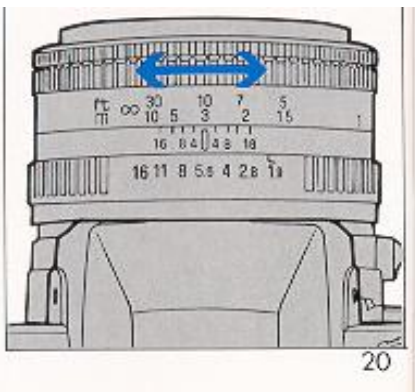
## FOCUSING

1. At the center of the viewfinder is the split image with microprism collar which is then surrounded by a ground glass. When the camera is in focus, the image on these focusing aids becomes sharpest.



2. Turn the lens focus ring until the upper and lower split images match up to form a uniform image (Fig. 18). This split image focusing is particularly helpful when the subject is dominated by vertical lines.

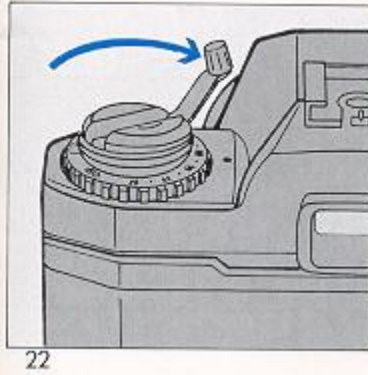
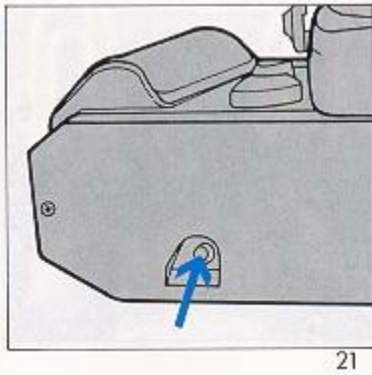
3. The microprism is also very helpful. When out of focus, the image on the microprism will appear to shimmer (Fig. 19).



4. When the focus is properly set, the subject image will be sharply defined in the viewfinder. You can double check the focus setting by the image on the ground glass. You can also focus indirectly. Actually measure or estimate the distance to the subject and set the lens focus ring to the appropriate setting (Fig. 20).

## UNLOADING EXPOSED FILM

1. When the film in the camera is fully exposed, the film advance lever will stop. Do not attempt to force the lever any further, but rewind the film and replace it with a new one.

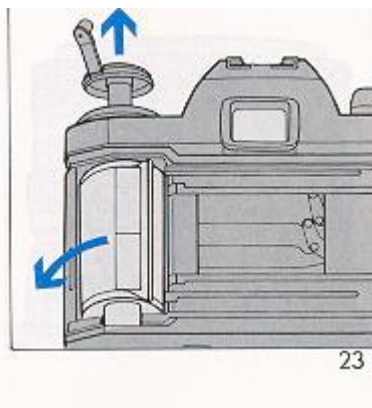


2. Push in the rewind button on the bottom of the camera (Fig. 21).

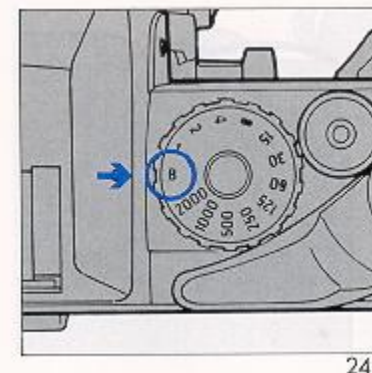
3. Unfold the rewind crank on the rewind knob. Turn the rewind crank clockwise (Fig. 22).

4. When the pressure eases, the film is completely wound into the film cartridge.

5. Lift up the rewind knob to open the camera back (Fig. 23). Your exposed film should be processed without delay.



## "B" (BULB) SETTING



The B setting is used for shooting night scenes or long time exposure. Set the shutter speed dial to the "B" position (Fig. 24).

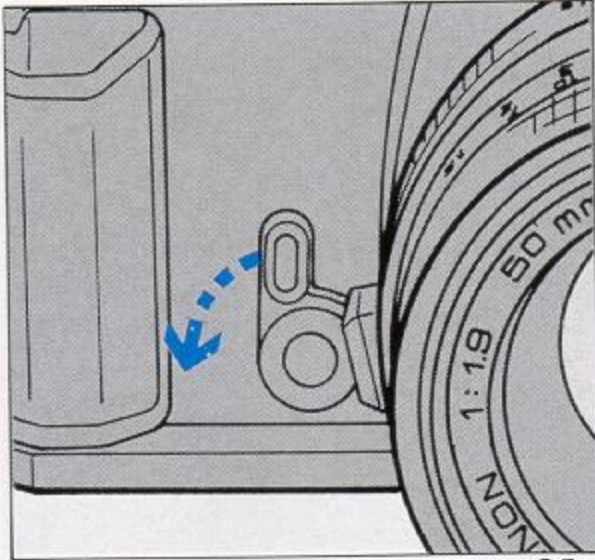
The shutter and mirror will move to the open (up) position as long as the shutter release button is depressed. Use of a cable release and a tripod is recommended for stability to prevent camera movement



during time exposures.

## SELF-TIMER

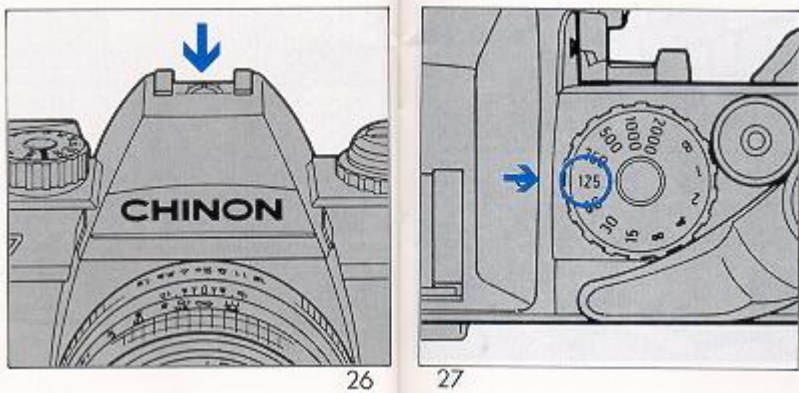
1. Wind the film advance lever and fully turn the self-timer lever counterclockwise. The self-timer is now ready for use (Fig. 25).



2. Press the shutter release button and the self-timer will release the shutter in approximately 10 seconds.
3. Once the self-timer is set, it must be activated. Cancellation is not possible.
4. The self-timer is very useful when you wish to include yourself in a picture.  
It is also useful for taking pictures at slow shutter speeds when a cable release is not available.

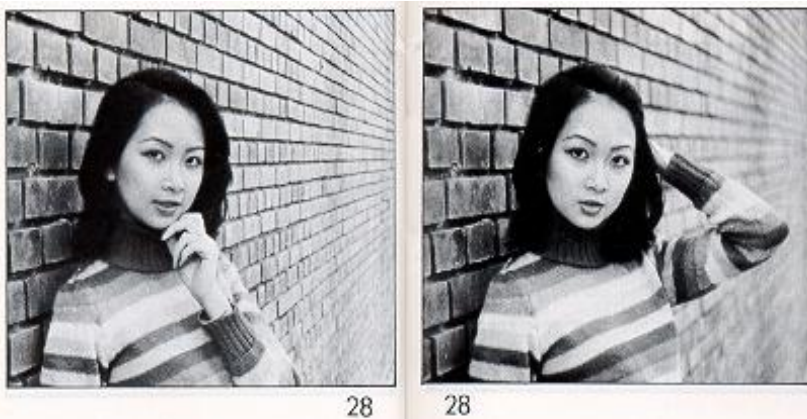
**NOTE: When using the self-timer, the camera should be mounted on a tripod, or some kind of solid support.**

## FLASH PHOTOGRAPHY



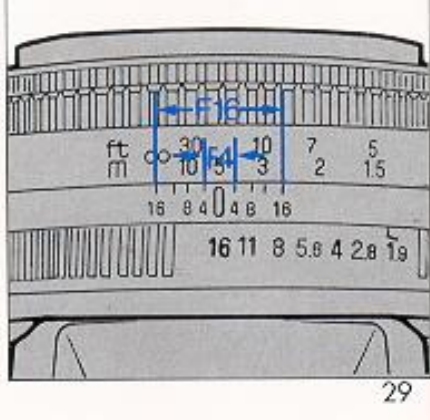
It is advisable to use a flash when the exposure indicators in the viewfinder show that the light level is too low, such as indoors, at night time, or in daylight when the subject is too dimly lit to provide adequate exposure. Electronic flash units as well as conventional flash units using flash bulbs may be utilized. The CM-7 has a shoe (accessory shoe with a built-in flash contact) for "X" synchronization (Fig. 26). 1. Set the shutter speed dial at 1/125 second or lower (Fig. 27). 2. The lens aperture is determined by the calculation table indicated on the flash unit. Follow the instructions given in the instruction manual of your flash unit.

## DEPTH OF FIELD



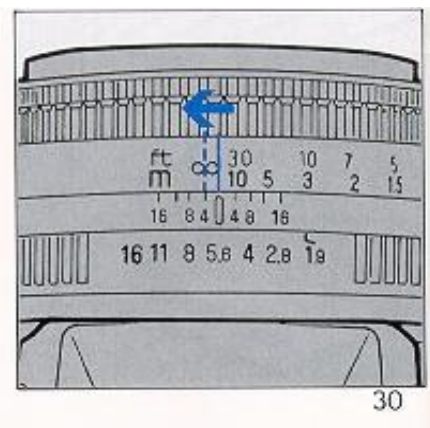
"Depth of field" designates the nearest and furthest limits of the area that will be sharply defined in the picture in front of and beyond the subject. Depth of field is controlled by the f-stop ring on the lens. The larger the lens opening (f-stop), the shallower is the depth of field. The smaller the lens opening, the greater the depth of field will become (Fig. 28).

## DEPTH OF FIELD SCALE:



The depth of field scale indicates (after focusing) the approximate area that will be sharp in the picture. Locate on the depth of field scale the corresponding pair of f-stop figures. The distance between these two f/ stop figures on the focusing ring will be the area of greatest sharpness in your picture (Fig. 29).

## INFRARED PHOTOGRAPHY



If you intend to take infrared photographs using infrared film and either an R2 or 02 filter, an extra focusing adjustment must be made. After focusing note the distance setting aligned with the focus index, and move that figure over to the red infrared mark engraved on the lens (Fig. 30). Focus adjustment is not required when using infrared color films. NOTE: Read the instructions packed with the infrared film for further information.

## OPTIONAL ACCESSORIES

- \* Standard Lens 50 mm f/1.4 multicoated
- \* 50 mm f/1.7 multicoated
- \* 50 mm f/1.9

### Wide-angle Lens

- 17 mm f/3.5 multicoated
- 28 mm f/2.8 multicoated

## Telephoto Lens

135 mm t/2.8 multicoated

## Zoom Lens

28-70 mm f/3.5-4.5 multicoated MACRO

35-70 mm f/3.4-4.5 multicoated MACRO

35-80 mm f/3.5-4.8 multicoated MACRO

35-105 mm f/3.5-4.5 multicoated MACRO

35-200 mm f/4.0-5.6 multicoated MACRO

70-210 mm f/4.0-5.6 multicoated MACRO

75-300 mm f/5.6 multicoated MACRO

## Accessories

CHINON AUTO "S" series flashes Auto extension ring

Bellows

Deluxe carrying case Soft gadget bag

Wide band strap with CHINON logo