

COSINA CS-2

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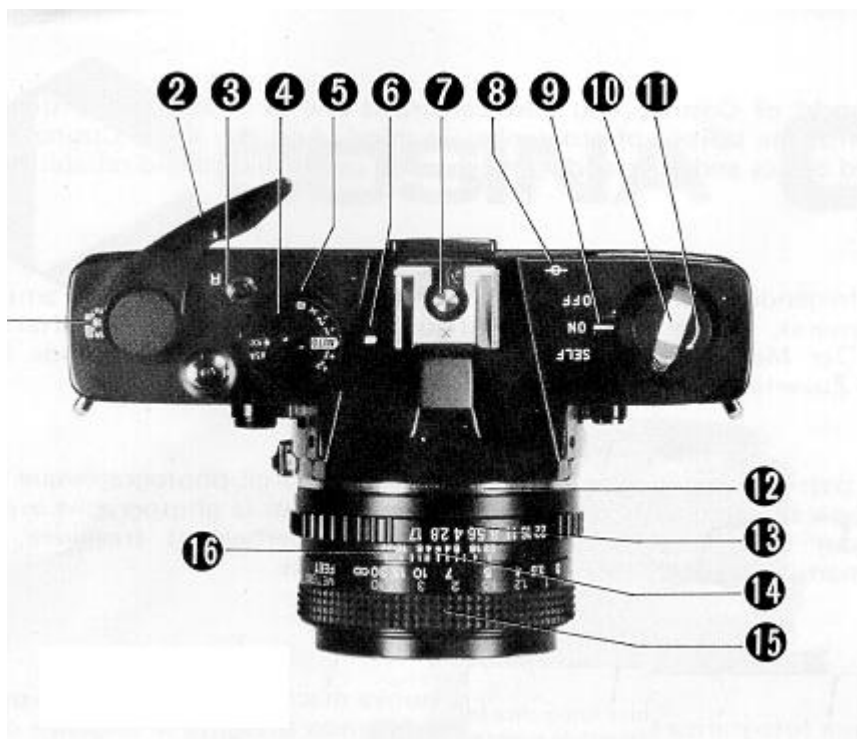
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Welcome to the exciting world of Cosina. Your new camera is one of a family of professional quality cameras designed with the serious photographer in mind. And the name Cosina is your assurance of superbly crafted optics and outstanding mechanical performance and reliability.



Description of Controls

- 1. Exposure Counter Window
- 2. Advance Lever

- 8. Film Plane Reference
- 9. Main Switch Lever
- 10. Film Rewind Crank

3. Film Rewind Button

4. Selector Dial

5. Film Speed Knob

6. Index Mark

7. Hot Shoe

11. Film Rewind Knob

12. Lens Flange

13. Aperture Ring

14. Aperture/Distance Scale Index Mark

15. Focusing Ring/Distance Scale



16. Depth of Field Scale/Infrared Mark

17. Release Button

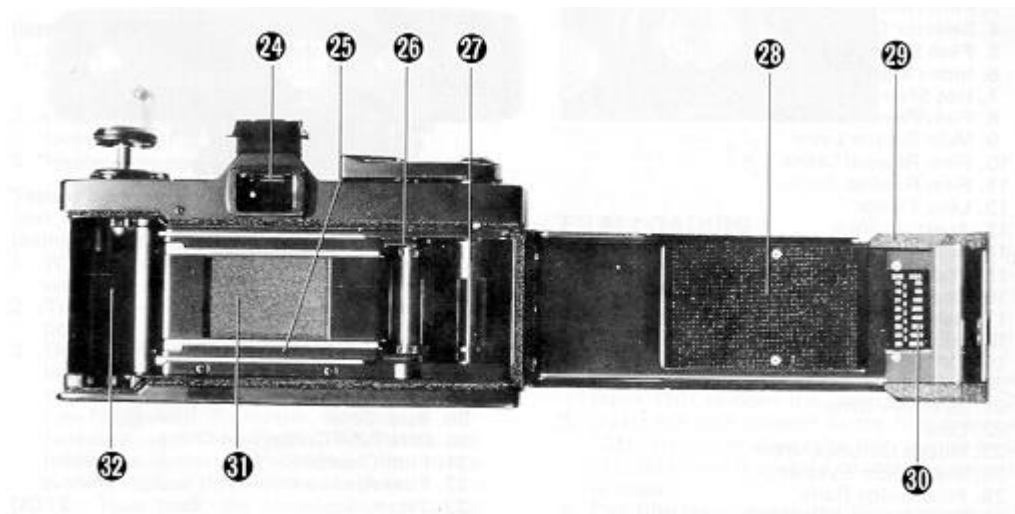
18. Strap Lugs

19. "X" Sync PC Outlet

20. Cable Release Socket

21. Self timer lamp

22. Lens



23. Mount Unlock Button

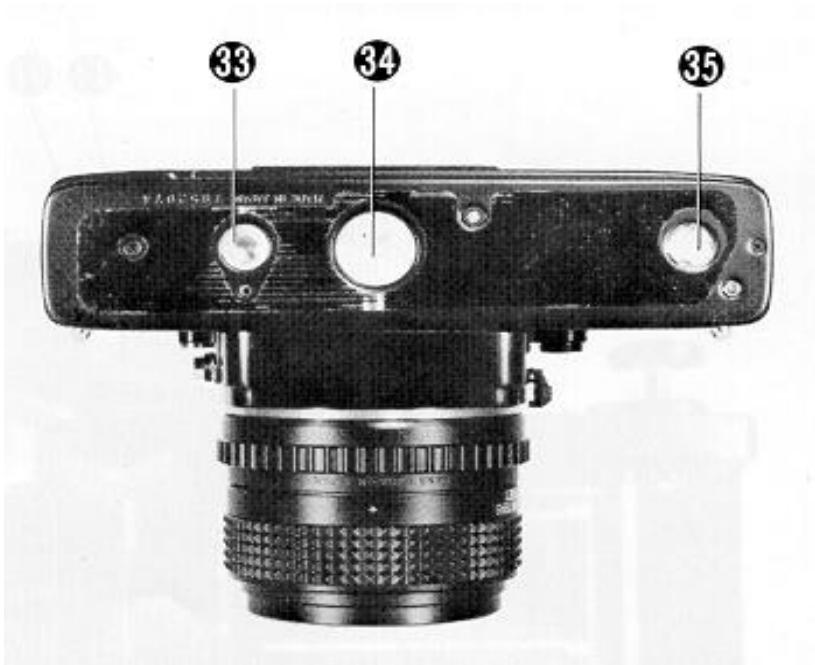
24. Viewfinder Eyepiece

25. Film Guide Rails

26. Film Advance Sprocket

27. Film Take-up spool

28. Film Pressure Plate



29. Back Cover

30. DIN/ASA Conversion Chart

31. Film Chamber

32. Film Aperture

33. Tripod Socket

34. Battery Compartment Cover

35. Auto-winder Coupler

POWER SUPPLY

Your CS-2 is powered by two, 1.5 volt silver oxide batteries (Eveready S-76, Mallory MS 76, G13 or equivalent).

Battery installation

1. Open the battery compartment by unscrewing the battery compartment cover (34) with a coin.
2. Insert the batteries with the negative (-) facing you. (Fig.1)
3. Replace the cover and tighten it firmly.

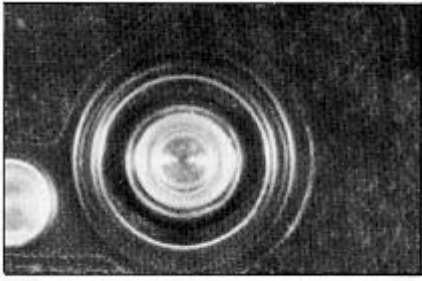


Fig.

Testing batteries

Test the batteries for sufficient power levels by taking the following procedure:

1. Wind the advance lever (2) if previously not wound.
2. Turn the main switch lever (9) to "ON" position.

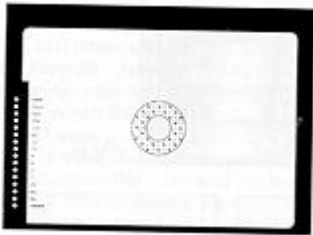


Fig.

3. Depress the release button (17) slightly and look into the viewfinder (24). One of sixteen LED dots for metering visible in the viewfinder will illuminate if there is sufficient power. (See Fig. 5) If batteries are below the operational voltage of the camera system, replace them with a fresh set.

NOTE: Turn back the main switch lever to "OFF" position when you are not taking pictures.

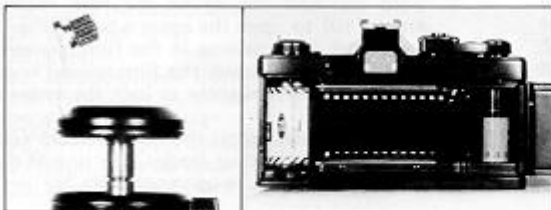


Fig.2

Fig.3



Fig.4

FILM LOADING

Your CS-2 accepts 35mm, Black & White or Color film standard cassettes.

To load the camera:

1. Press the release button to clear the camera mechanism.
2. Fold out and lift up on the film rewind crank (10) to open the camera back. (Fig. 2)

3. Insert the film cassette in the film chamber (31), then push down the film rewind knob (11) and turn it slightly to lock the cassette in place.
4. Pull film leader across the film aperture (32) and insert the end of leader into one of the slots in the film take-up spool. (Fig. 3)
5. With the film rewind crank in the folded out position, rewind the film slightly to remove any slack in the film cassette. Recheck to see that the film remains secured to the take-up spool and that it is properly aligned with the sprocket (26). Fold down rewind crank.
6. Close the back cover (29) until you hear an audible click, which indicates that the cover is locked in the closed position. Advance the film by alternately winding the advance lever and pressing the shutter release button until the number "1" appears in the film counter window (1). As the advance lever is wound, the film rewind knob should rotate indicating that the film is advancing properly.

SETTING FILM SPEED

For properly exposed photographs, your CS-2's automatic exposure control system must be set for the correct ASA (or DIN - for DIN) equivalent, refer to the DIN/ASA conversion chart (30), rating of film you are using.

To set the film speed:

1. Lift the collar on the Selector Dial (4)
 2. Turn the collar until the ASA rating for (your film appears in the ASA Window
 3. Release the collar to lock the setting in place.

FOCUSING THE CAMERA

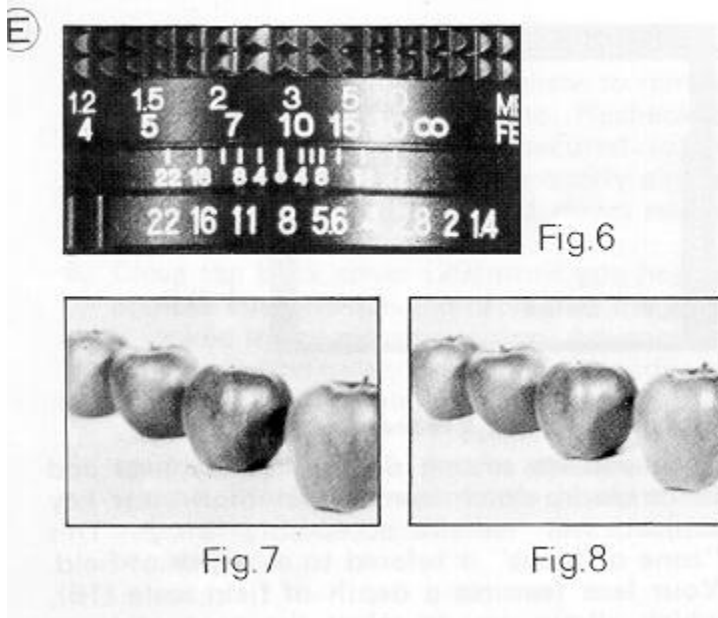
Your CS-2's focusing screen includes a central horizontal split-image range finder, which is surrounded by a microprism collar. (Fig. 5)

To focus accurately:

1. Center the split-image range finder on your key subject and turn the focusing ring (15) until the upper and lower portions of your subject become one, clear vertical image.
2. The microprism collar will a) appear fragmented when image is entirely out of focus, b) appear collar shimmering but viewable when image is nearly in focus and c) display a sharp clear of your subject when it is in focus. It is especially useful when there are no pronounced vertical subject elements on which to center the horizontal split-image range finder.
3. The entire focusing screen may be used for both focus and composition of your photograph. In as much as the human eye tends to ignore mirror differences in sharpness, the horizontal split-image range finder and/or the microprism collar should always be used for critical focus.

SELECTING LENS APERTURE

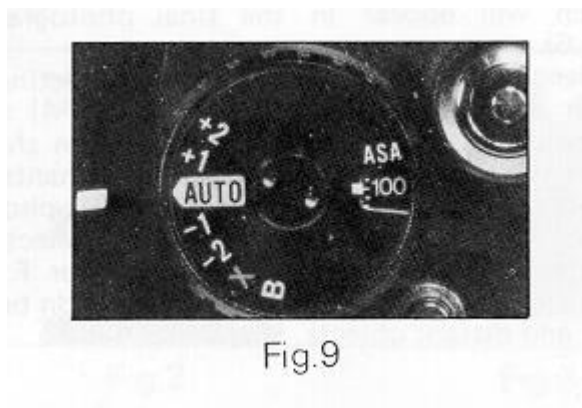
The aperture setting determines the near and far areas in which items other than your key subject will remain acceptably sharp. This "zone of focus" is referred to as depth of field. Your lens features a depth of field scale (16), which allows you to select the zone of focus which will appear in the final photograph. (Fig. 6)



Under normal lighting conditions, selecting a larger aperture opening (e.g.: F2.8 or F4) will allow you to keep your key subject in sharp focus while eliminating distracting elements in the foreground or background of your photograph. (Fig. 7) Under same conditions, selecting a smaller aperture opening (e.g.: F11 or F16) will allow you to maintain sharp focus on both near and distant objects. (Fig. 8)

EXPOSURE COMPENSATION

Certain scenes, where the sun is behind the subject or the background is very bright (such as snow or sand) will cause a foreground subject to be underexposed. Sometimes, this silhouette effect can be very desirable, but usually, you want your subject to be properly exposed. Under such conditions, set the Selector Dial (4) "+1" or "+2" to compensate the exposure of your subject. (Fig. 9) If, on the other hand, the back ground of your subject is dark or colored In black, set the dial to "-1" or "-2" markings.



TIME EXPOSURE

When making time exposure photographs, your camera should always be tripod-mounted and used with a locking cable release.

For the time exposure of over 8 seconds in duration:

1. Align "B" setting on the selector dial with the index.
2. Advance the film and press in on tip of cable release to open the shutter.
3. After the desired exposure time in second has elapsed, release the cable release lock to close the shutter.

SELF TIMER

The self timer delays the tripping of the shutter mechanism for approximately 10 seconds, allowing you to include yourself in the photograph when desired.



Fig.10

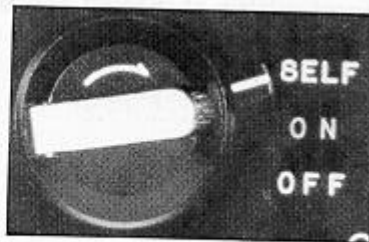


Fig.11

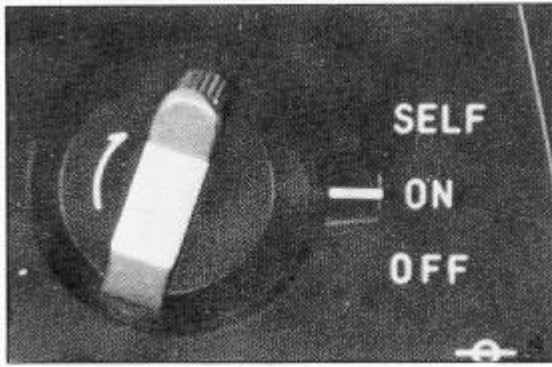
To activate the self timer:

Fix your camera on a tripod.

Advance the film and compose the scene.

Put the eyepiece cap on the eyepiece. The eyepiece cap can be inserted into the accessory shoe when not being used.

4. Turn the main switch lever to "SELF" position. (Fig. 11)
5. Press the shutter release button and position yourself in the photograph area within 10 seconds. At the same time the self timer lamp (21) starts flickering. (Fig. 10) You will notice that the shutter will activate within 2 or 3 seconds as the flickering interval becomes shorter.
6. Turn back the main switch lever for the next normal shots.



AUTOMATIC EXPOSURE CONTROL

Your CS-2's automatic exposure control system enables you to take always properly exposed photographs under the lighting conditions equivalent to from EV-2 to EV-19 (i.e. from candle light to snow ground view).

Photographing with AUTO:

1. Turn the main switch lever to "ON" position.
2. Align the "AUTO" marking on the selector dial (4) with the index (6).
3. Advance the film, focus, select the aperture size and compose your subject.
4. Press the release button slightly so that one of sixteen LED dots visible in viewfinder indicates the shutter speed with which you are about to photograph.

NOTE I. When the shutter speed of slower than 1/30 of a second is indicated, the camera should be tripod-mounted and used with a cable release to eliminate the possibility of vibration due to camera movements. The CS-2 is equipped with a threaded cable release socket (20) and tripod socket (33) for use with these accessories.

NOTE II. When the LED of "OVER" or "UNDER" flickers indicating that it is out of range, another larger or smaller aperture size should be selected. If the aperture is already maximum or minimum, and electronic flash unit or ND filter should be used.

5. Depress the release button all way down to activate the shutter.

FLASH PHOTOGRAPHY

The CS-2 is synchronized for "X" flash photography, using either the hot shoe (7) or "X" sync PC outlet (19). With either connection, the shutter speed dial should be set at the red "X" marking except the case as follows:

A special connector of the Cosina strobe flash unit, made exclusively for CS-2, enables you to take flash photographs without setting the shutter speed dial knob to "X" position when the unit is inserted in the hot shoe. When the pilot lamp of the unit illuminates, indicating that it is ready to flash, the shutter speed of camera is automatically set to 1/60 of a second to synchronize with flash. You will notice the moment that the pilot lamp illuminates without removing your eye from the eyepiece (24), if you depress the release button half way down so that the LEDs in viewfinder illuminate. The LEDs fails when the pilot lamp illuminates.

For more details, refer to the instructions attached to the unit.

INTERCHANGING LENSES

Any wide-angle or telephoto interchangeable lens with K type bayonet mount can be mounted on your CS-2 camera body.

To take off the lens: 1. Push the mount unlock button (23).

2. Hold the camera and lens body steadily, and rotate the lens body counterclockwise.
3. Rotating approximately 65 degrees you will note that the lens becomes free.

To mount the lens:

1. Join the red index marks on both camera and lens.
2. Rotate the lens clockwise until it snaps.

REMOVING FILM

When you have finished exposing the last frame in your film cassette (12, 20, 24 and 36 exposure settings are coded in red on your film counter dial), remove the cassette.

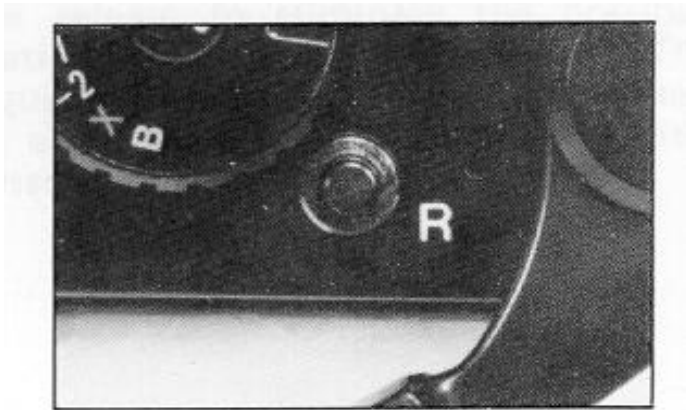


Fig.12

To rewind the film:

1. Push in the film rewind button (3). (Fig. 12)
2. Fold out the film rewind crank and turn in direction of arrow.
3. When the crank turns freely (without tension or "drag"), pull up on the crank to open the camera back. The film counter will automatically reset to zero.
4. Remove the exposed cassette for processing. Insert a fresh roll of film while the camera back is still open, or close the camera for storage.

NOTE: Do not load or unload your film under direct sunlight.

CARING FOR YOUR CAMERA

1. Never force any camera operation. Consult this instruction manual if any questions occur.
2. Remove batteries when storing camera. Batteries can leak as they age, causing damage to your camera. Always inspect the batteries for signs of leakage before installing them in your camera.
3. Keep the lens cap on when not taking photographs. The cap protects your lens from dust or dirt particles.
4. Clean your camera's interior. Periodically remove any dust or film particles from the film chamber, rear lens element, take-up spool area or film pressure plate with an air blower. Inspect the film pressure plate for accumulated deposits from film backing and clean with lens cleaner and fissure if required.
5. Keep your camera and film away from direct sunlight or heat. Never store your camera or film on the rear window deck, glove compartment or other hot areas in your car.
6. Protect your camera from moisture. Do not store your camera in a moisture retaining enclosure or environment. In area of high humidity, extra care should be taken to insure that your camera is kept in a comparatively cool, dry location.
7. Do not touch the shutter curtain.

PHOTOGRAPHING WITH AUTO-WINDER

Your CS-2 is designed to be coupled with Cosina Auto-winder which enables you to take approximately 2 frames per second at the maximum shutter speed. The auto-winder is powered by 4 pcs. of readily available AA size alkaline battery.

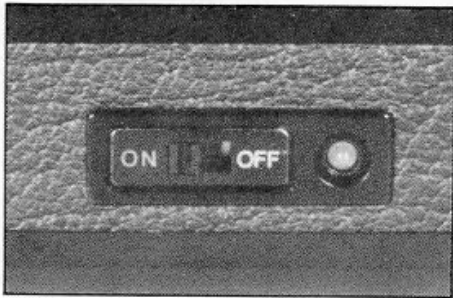


Fig.13

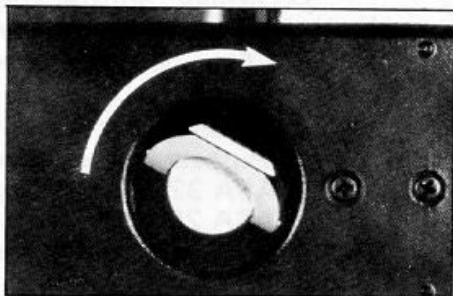


Fig.14

To photograph with the winder:

1. Couple the winder with the camera body. (Fig. 13)
2. Tighten the screw. (Fig. 14)
3. Set the switch to "ON" position. The winder advances the film, if previously not wound.
4. Set the exposure and focus.
5. Depress the release button fully to activate the shutter. The winder will immediately start advancing the film. At this moment if you release your finger from the release button, only a single shot is made. If you keep depressing it, continuous shots at a rate of 2 frames per second can be made.
6. When you have finished exposing the last frame in your film cassette, take procedure as described in "REMOVING FILM". You need not remove the winder from camera body when removing film.

NOTE: Set the switch at "OFF" position when the winder is not in use.

SPECIFICATIONS

Camera Type: 35mm Automatic Single Lens Reflex camera.

Film Format: 24mm x 36mm.

Lens Mount: K type bayonet mount. Flange back focus distance: 45.44mm.

Shutter: Magnetically controlled cloth curtain focal plane shutter with shutter speed from 8 to 1/1000 sec. and B (Bulb) Flash synchronization "X" at 1/60 sec.

Viewfinder: Fixed pentaprism type: Magnification: - 0.9 (with f=50mm lens)

Field of view: 93% for both horizontal and vertical.

Display: Focusing with horizontal split-image center spot with surrounding microprism collar on matte type fresnel screen.

Shutter speed indication with 16 LEDs.

Electrically controlled self timer of 10-second duration with flickering lamp.

Automatic system: Operating range: EV-2 - EV19 (with ASA 100 and lens of F1.4 - F22)

TTL, aperture preferred, open-aperture exposure measurement with 2 pcs. of SPC.

Center weighted average measurement.

Exposure level control adjustable +2, +1 - 1, - 2 EV (in the case of ASA 3200, +2, +1 and -1 only are adjustable)

Film Speed Range : ASA 25 - 3200.

Film Advance: 135° rotation of wind lever with standoff angle of 30°

Shutter Release: Electrically controlled solenoid switch.

Film Counter: Progressive type. Automatically resets when the camera back is opened

Power Source: 2 pcs. of S-76 (or MS 76 or G 13 or equivalent) 1.5-volt silver oxide battery.
Battery test with LEDs in viewfinder.

Dimensions: 136.5 x 83.5 x 51mm.

Weight: 530 gram

Attachable accessories: Cosina Auto-winder, Cosina Auto-strobe flash.