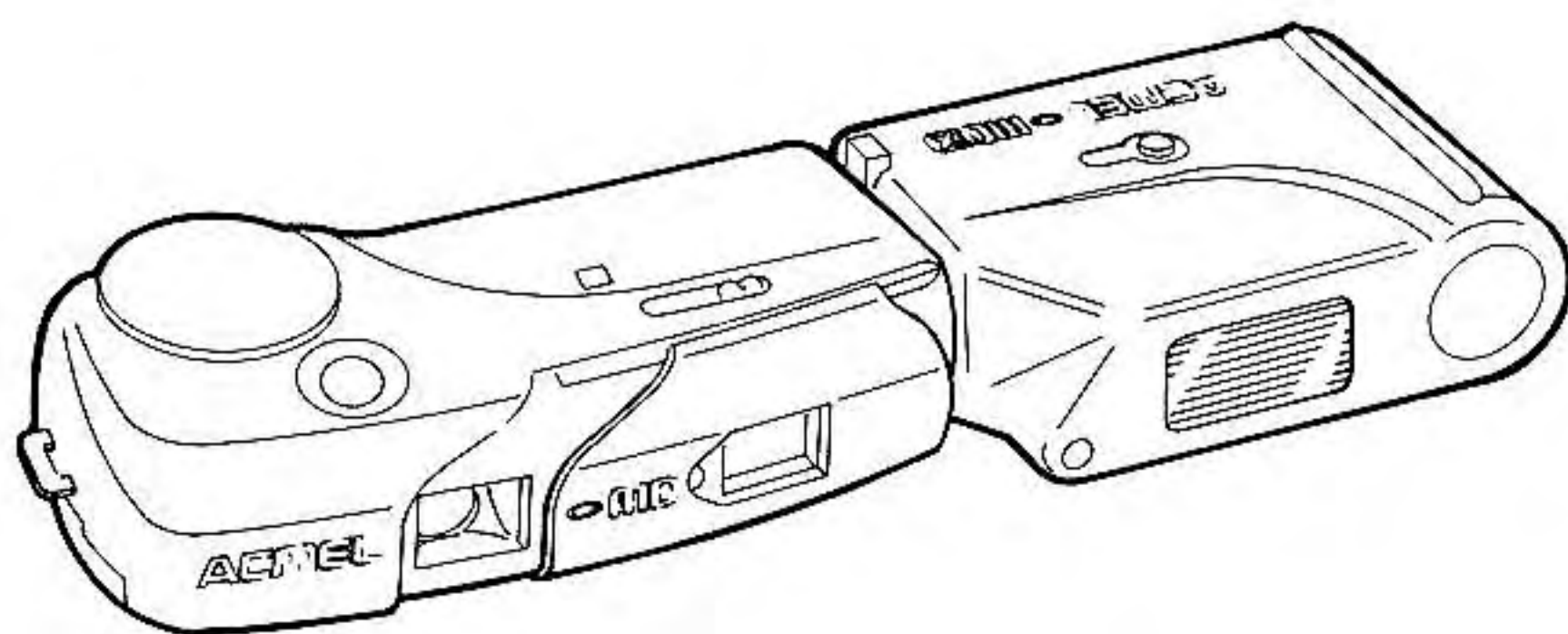


# ACMEL MD & MDX



## USER'S MANUAL

*Be sure to read this manual prior to use.*

Thank you for purchasing this product. This manual is a consolidation of the ACMEL MD and MDX usage procedures.

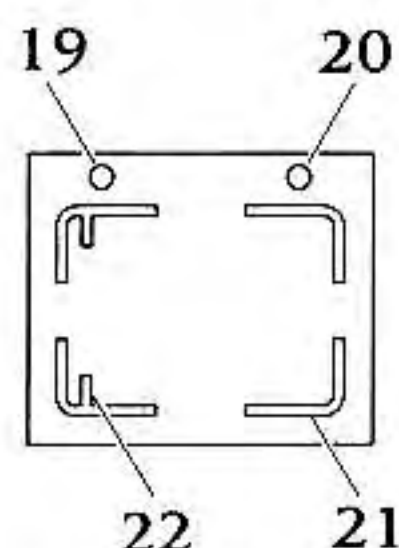
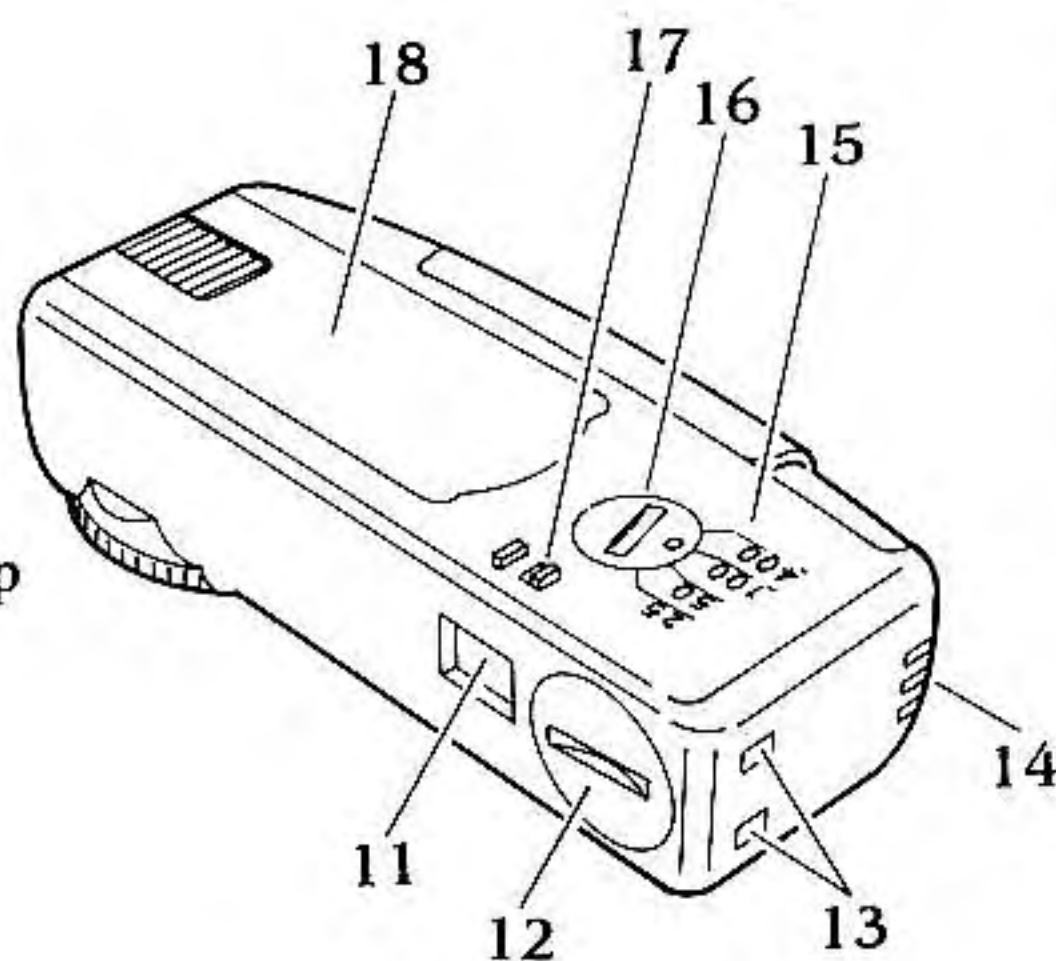
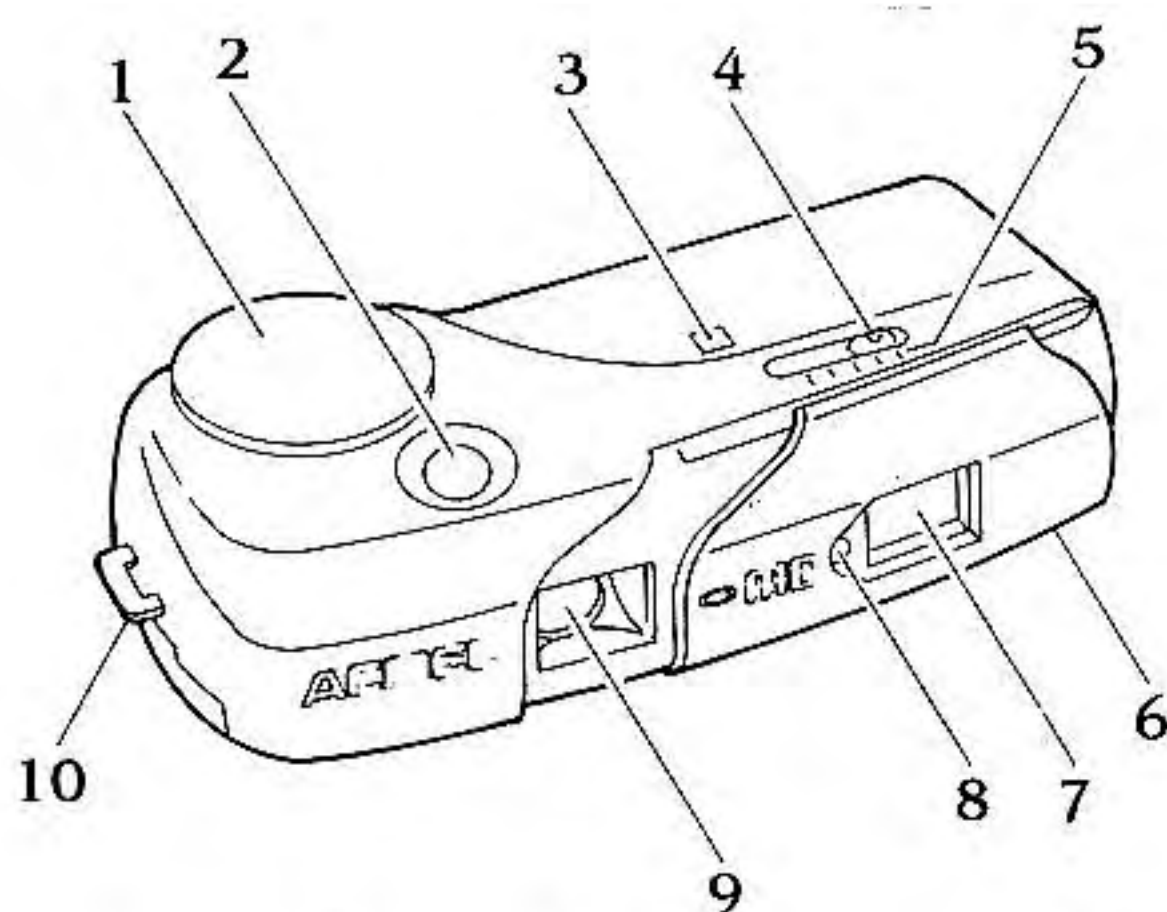
After you have fully understood the contents herein, we hope you will fully enjoy using your camera.

### FEATURES:

1. Ultra-compact & super-lightweight
2. CdS electronic shutter
3. 30cm macro function
4. High performance Azonon lens [3-groups, 4-elements, F3.5:f=15mm]
5. Powerful lithium batteries
6. Auto-strobe MDX, one touch mounting
7. Bright frame finder
8. Convenient chain strap for Close-up

### Name of parts

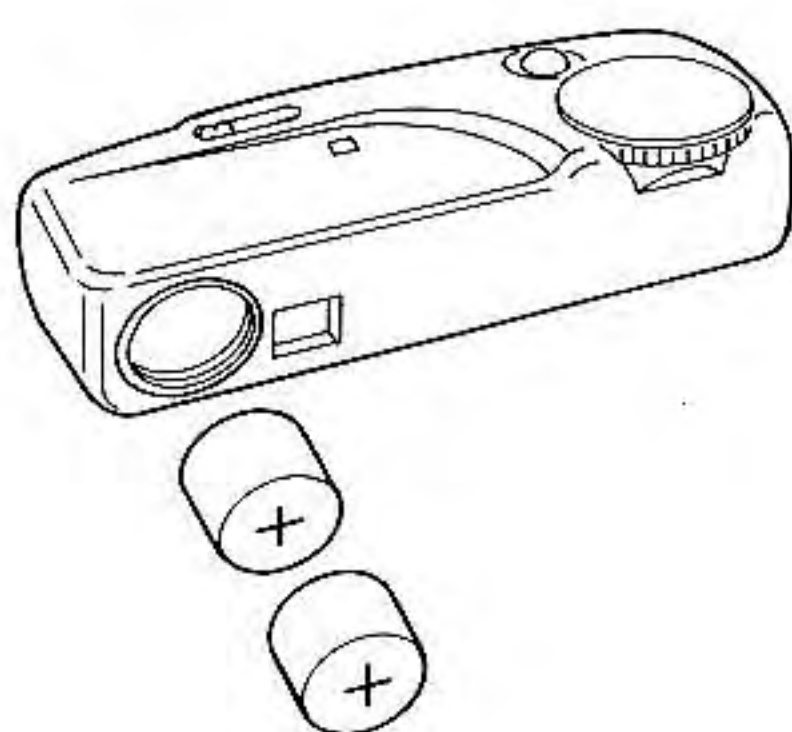
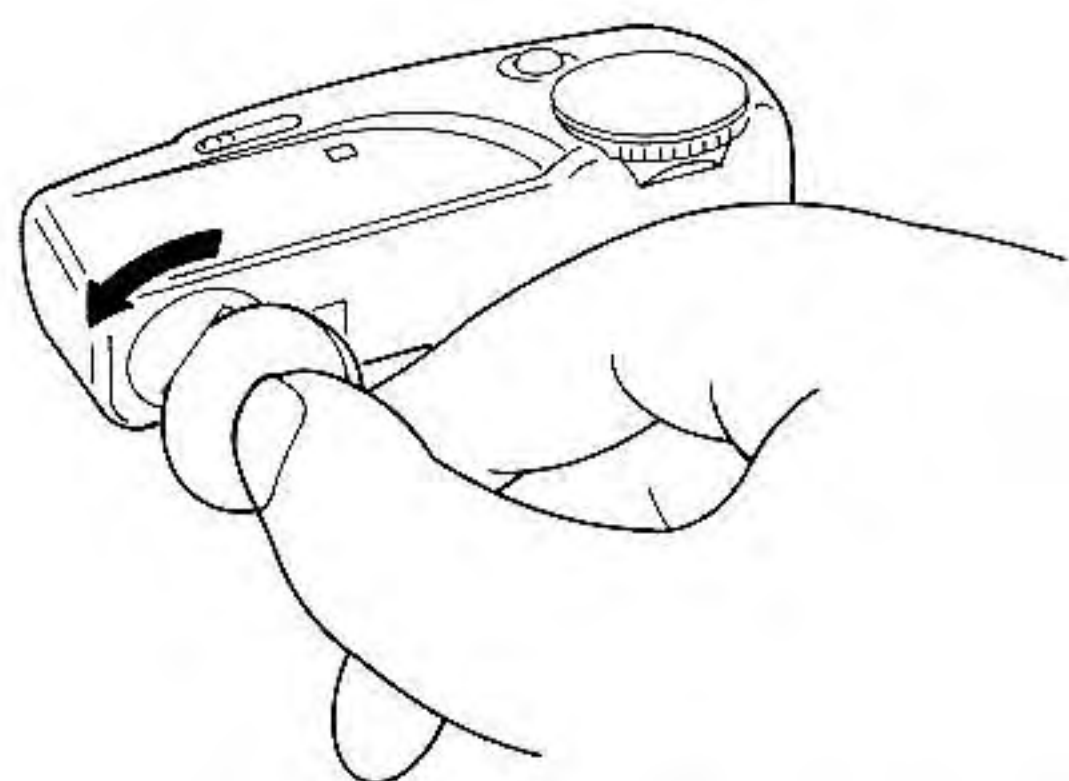
1. Film wind-up knob
2. Shutter button
3. Film counter
4. Focusing distance adjustment lever
5. Focusing distance scale
6. Lens cover
7. Viewfinder
8. CdS photometer window
9. Lens
10. Strap hook
11. Viewfinder eyepiece
12. Battery compartment cover
13. Strobe installation hole
14. Strobe contact
15. Film speed scale
16. Film speed dial
17. Warning lamp actuation lever
18. Film compartment cover
19. Shutter actuation confirmation lamp (green, within viewfinder)
20. Slow shutter warning lamp (red, within viewfinder)
21. Bright frame
22. Close-up mark





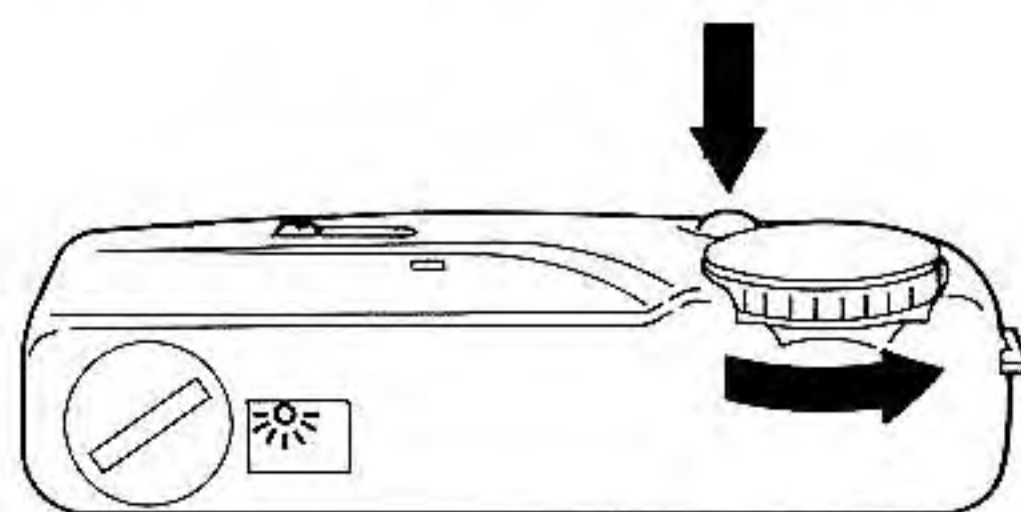
## First, Put in the Batteries

1. Turn the battery compartment cover (12) at the rear of the camera in the counter-clockwise direction and remove the cover.
2. Set the "+" face of the batteries (two lithium batteries, CR-1/3N, 3V) to the outside and insert them one on top of the other.  
(Insert as shown in the battery compartment)
3. Turn the battery cover clockwise to install it.



4. Open the lens cover (6), turn the film wind-up knob (1) until it stops and face the camera toward a brightly lit spot (outside or something like a fluorescent lamp when indoors).

Then while looking through the viewfinder, press the shutter button (2) and if the green shutter actuation confirmation lamp (19) inside the viewfinder lights, you can assume that the batteries are inserted correctly and that can thus be used.

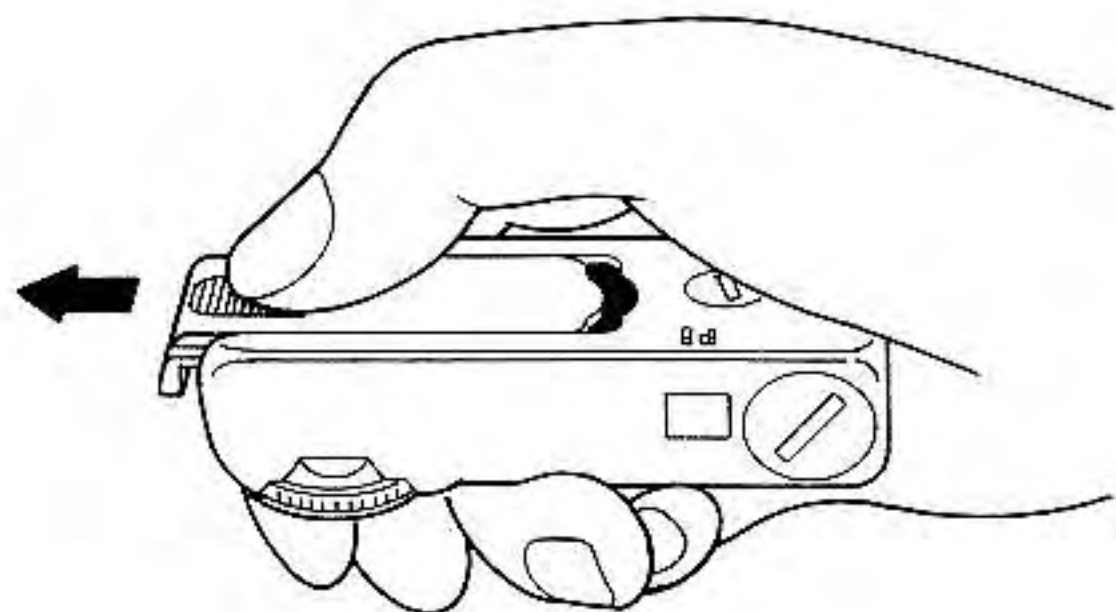
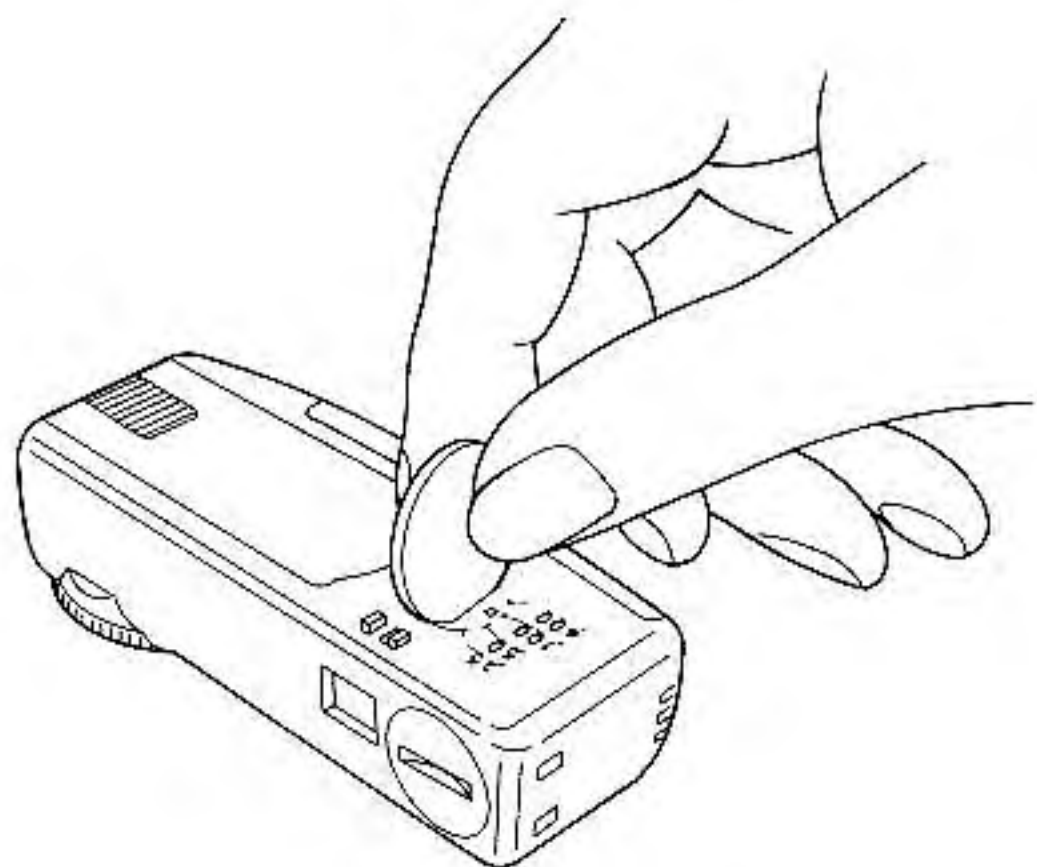


- \* The new lithium batteries should be good for about 50 rolls of 36 exposure film.  
(Under our test conditions)
- \* The batteries are supplied for the ACMEL MD. You should be sure to purchase the same batteries (lithium CR-1/3N) from your photo dealer, when you need to replace the batteries.
- \* When the film is wound up, the camera's power switch will go ON. We recommend that you wind up the film immediately prior to shooting to prevent premature depletion of the batteries.
- \* When the batteries are getting depleted, the shutter speed function may not work correctly.

We recommend you to check the shutter speed function releasing the shutter button before putting in the film and change batteries in good time, if they are depleted.

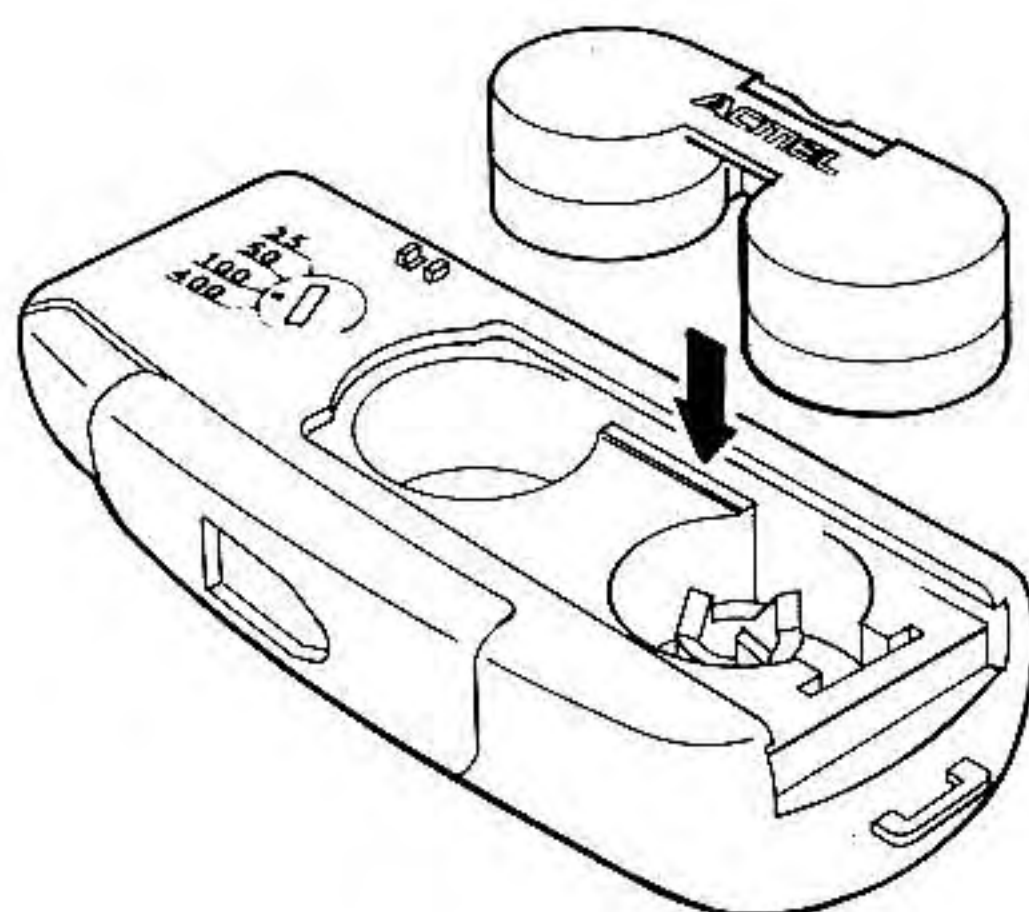
## Put in the Film

1. Turn the film speed dial (16) on the bottom of the camera to match the speed of the film to be used. (ISO 25, 50, 100 and 400 films can be used in this camera.)
2. Using your fingers, push the notched section of the film compartment cover (18) to the outside (strap hook side).



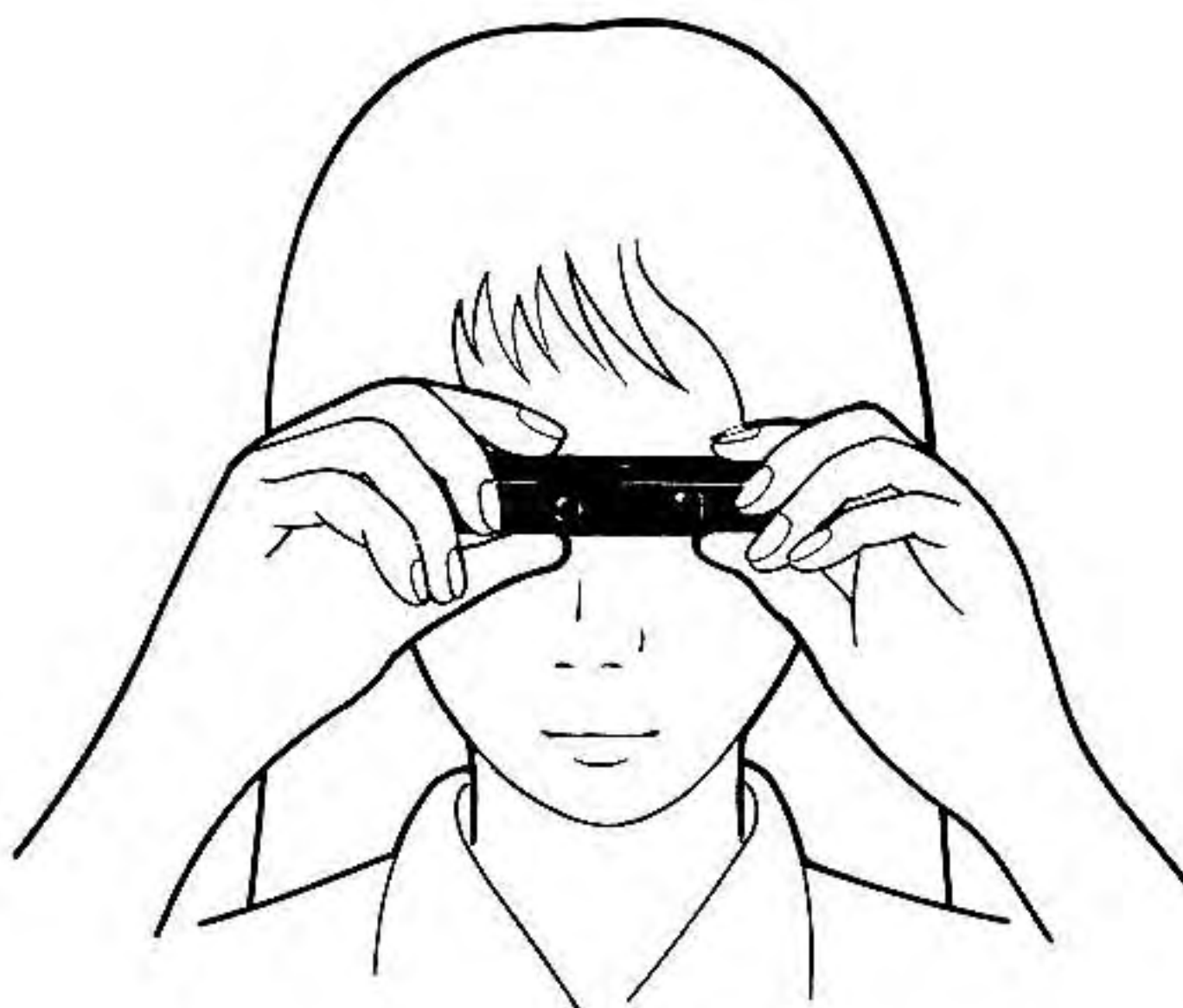


3. Drop in the ACMÉL film cartridge such that it is inserted between the pressure plate.
  4. Confirm that the film has been correctly loaded, then re-install the film compartment cover until it fits into the groove in the camera body.
  5. When the film compartment cover is withdrawn from the camera, the film counter (3) will automatically return to the start position "S".  
Turn the film wind-up knob (1) until it stops, then press the shutter button.  
Shoot two empty frames to bring the film counter to "1".
- \* When the film is wound up, please turn the film wind-up knob completely until it stops, because the film wind-up function may work incorrectly if you press shutter button on the way of film wind-up.



## Correct Camera Positioning

1. The camera can be used either in a vertical or horizontal position. In either case, hold the camera firmly with both hands (however, without using excessive force.) to avoid camera movement and position it so that the camera does not move.
2. At this point, be careful not to block the lens, the CdS photometer window, the view finder or the strobe light emission section with the fingers of either of your hands. (Most failed pictures are the result of blocking the lens or camera movement.)



3. When viewing the subject through the eyepiece of the viewfinder, bring your eye to the center of the eyepiece of the viewfinder.  
If your eye is off to the left or right or up or down, the photographic range will be distorted.
4. When you press the shutter button, place the thumb of your right hand on the bottom of the camera and gently press right on top of the shutter button with your index finger.

## Automatic Exposure Mechanism

1. This camera features a CdS automatic photometer and electronic shutter system. The shutter speed will automatically change from about 2 seconds to 1/500 in accordance with the brightness of the subject and the film speed. The green shutter actuation confirmation lamp within the viewfinder will light while the shutter is open.
2. When the camera has been set at ISO 100, if the shutter speed is slower than about 1/30 second, the slow shutter warning lamp will light when the warning lamp actuation lever (17) is slid. Use the MDX strobe when it is lit.  
When film of other speeds is used, the warning lamp will not be linked to 1/30 second, so you should refer to the following table.

## Hand Movement Warning Reference Table

|                      |     |      |      |       |
|----------------------|-----|------|------|-------|
| Set film speed (ISO) | 25  | 50   | 100  | 400   |
| Shutter speed (sec.) | 1/8 | 1/15 | 1/30 | 1/125 |

- \* When the MDX strobe has been installed, the shutter speed will automatically be set at 1/30 sec.



Now, you're ready to shoot

- 1. Open the lens cover (6), to the point where it stops. At this point check that the lens (9), CdS photometer window (8) and viewfinder window (7) are not obstructed.
- 2. Turn the film wind-up knob (1) until it stops and the shutter is automatically set.
- 3. Face the camera toward the subject, then while looking through the viewfinder, slide the warning lamp actuation lever (17) at the bottom of the camera and check whether the slow shutter warning lamp (red) is lit. If the slow shutter warning lamp (red) has lit up, use the MDX strobe.
- 4. Look through the viewfinder eyepiece (11) to determine the photographic range. When you taking picture at close-up distance within 1m, be sure to fix your subject within the close-up mark in the viewfinder.
- 5. Roughly measure the distance up to the subject, then match it to the focusing distance scale (5) by sliding the focusing distance adjustment lever (4). The focusing distance scale displays 0.3m, 0.6, 1, 2, 4● and infinity. You can also use intermediate positions between scale's displays. (When photographing at a close up distance of 0.3m, correctly measure the distance by using the attached chain strap. Then, be careful not to move the camera when shooting.)

Depth of the field table

The figures of Focusing distance scale means the distance from camera front to the subjects.

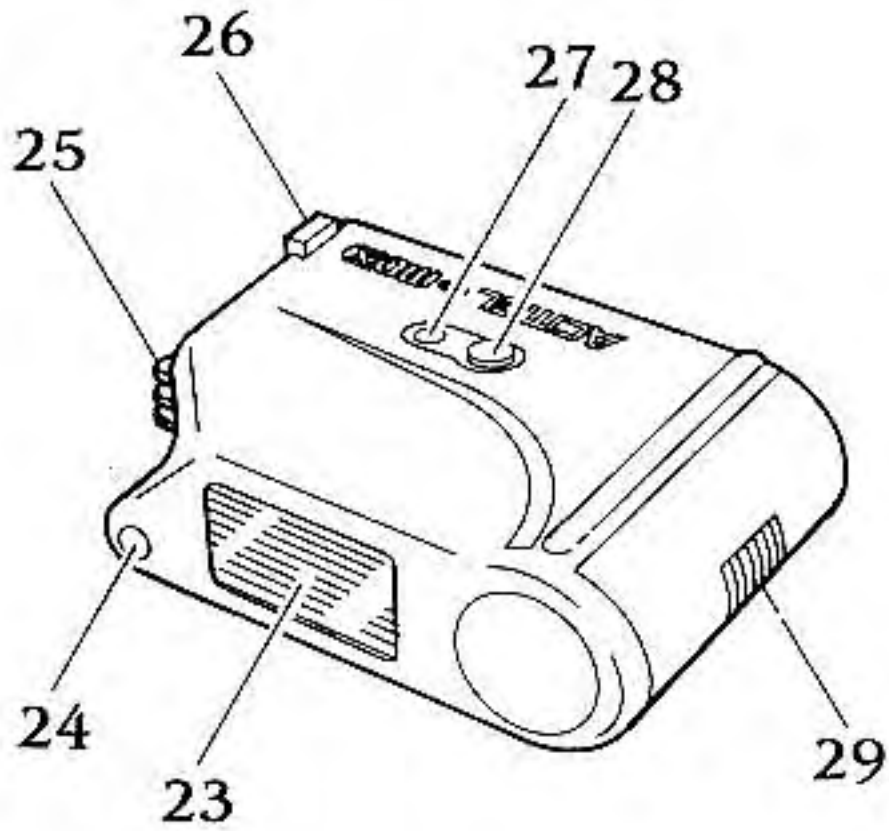
|                         |           |           |         |         |       |     |
|-------------------------|-----------|-----------|---------|---------|-------|-----|
| Focusing distance scale | 0.3m      | 0.6m      | 1m      | 2m      | 4●    | ∞   |
| Depth of field (m)      | 0.28~0.32 | 0.53~0.67 | 0.8~1.2 | 1.4~3.3 | 2.0~∞ | 5~∞ |

\* When focusing distance adjustment lever is set at the position (●), you can bring any subjects more than into focus.

- 6. Gently press shutter button (2).
  - \* Continue to press the shutter button, until the green shutter actuation confirmation lamp goes out.

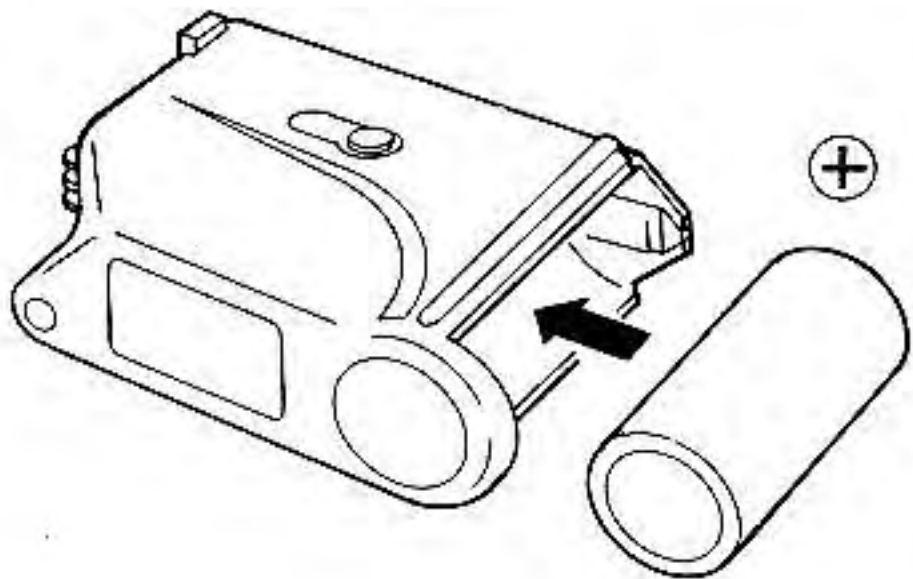
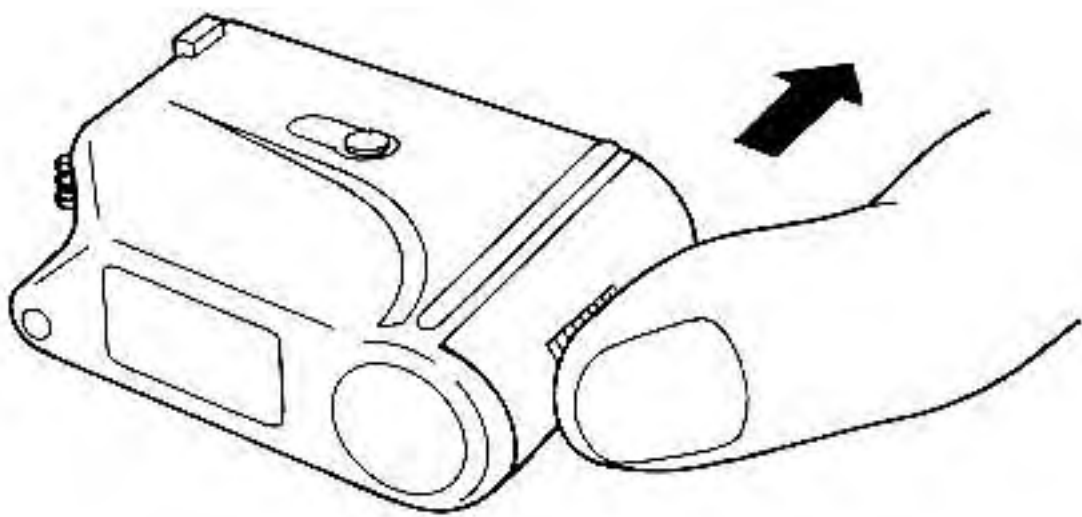
Using Your Strobe  
Name of parts

- 23. Flash section
- 24. Photometer window
- 25. Camera contact pins (3 pins)
- 26. Mount/dismount buttons
- 27. Ready lamp
- 28. Switch button
- 29. Battery compartment cover

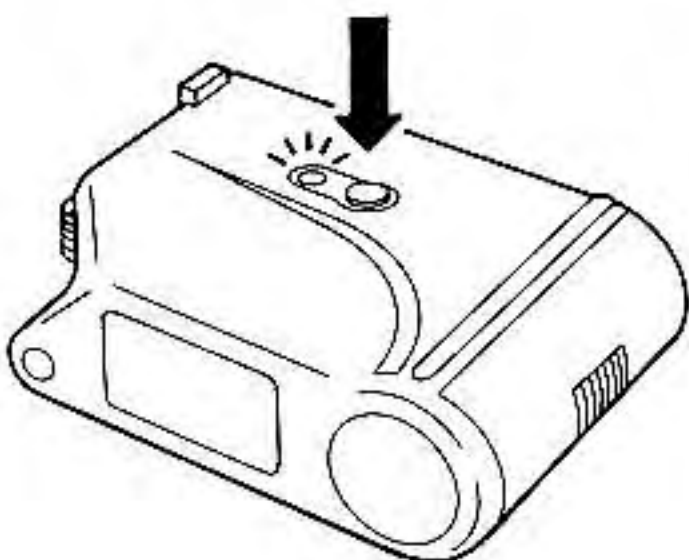


Handling

Set your thumb on the notchings of the battery compartment cover (29), then slide it in the direction of the arrow (back of strobe) and remove the cover. Set the 123A lithium battery properly, as indicated in the diagram, in the battery compartment. Replace the battery compartment cover.



Press the switch button (28), and the ready lamp will light in a few seconds.



If the ready lamp does not light within 15 seconds after pressing the switch button, you may assume that the battery is depleted. Replace it with a new one.

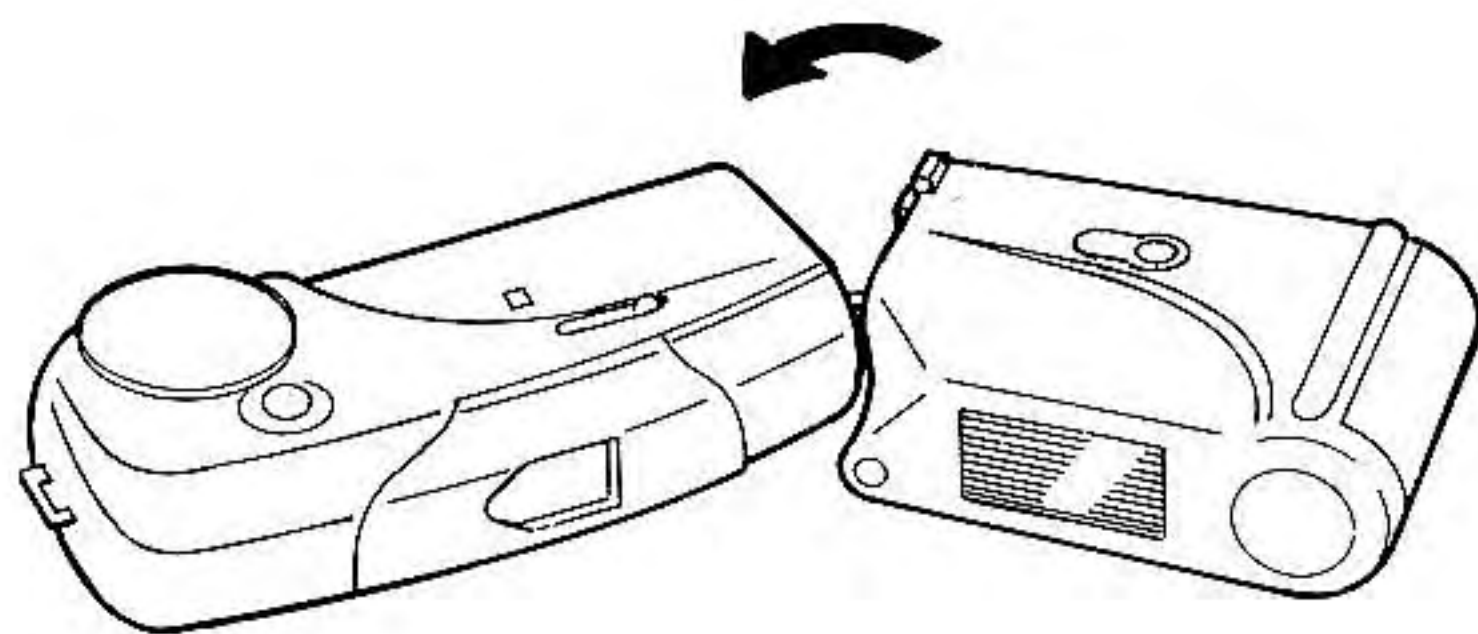


## Installation onto the camera

Hook the tip of the camera contact pins (25) at a slant into the holes on the camera for the strobe contacts.

Then, turn, while pressing the mount/dismount buttons (26) from both sides with your fingers, then firmly press contact pins into the strobe installation holes of the camera.

When removing the strobe from the camera, pinch the mount/dismount buttons from both sides with your fingers then take it off.



## Taking pictures with your strobe

1. Press the switch button (28) to turn the strobe ON. The ready lamp (27) will illuminate (orange) within a few seconds.
2. This strobe incorporates an automatic distance detection function, thus the volume of light flashing will vary according to the shooting distance.  
The exposure is always maintained at the optimal level as long as the subject is within the appropriate shooting range.
3. Available distance range (Color Negative film)  
Film speed ISO 100 from about 0.3m to 1.6m (1 ft to 6 ft)  
ISO 400 from about 0.3m to 3m (1 ft to 10 ft)  
\* Be careful not to photograph outside of the available distance range, as this may lead to over or under exposure.
4. Switch off  
An AUTO-OFF circuit is built into this strobe and it is designed to turn OFF automatically after the photographing is finished. Except during continuous shooting, be sure to press the switch button prior to photographing, then check the ready lamp.
5. A new lithium battery should be good for about 500 uses. (Under our test conditions)

## When all Your Film is Finished

1. After you have taken the prescribed number of exposures on a roll of film, close the lens cover by sliding it to the lens side.
2. Now, shoot two empty shots only. Do not shoot more than two empty shots to prevent light leakage through the film cartridge. (Be careful not to get all the film caught within the cartridge.)
3. Open by sliding the film compartment cover.
4. Place your fingernail in the center of film cartridge to lift and remove the cartridge.
5. Take the roll of film to your camera shop to develop and print your pictures.  
Your pictures will be finished with satisfaction.

## Handling Precautions

1. Your camera and strobe are precision instruments, so you should not subject them to shock by wetting or dropping them.
2. If not used for an extended period of time, you should store them in a location that is free of humidity, heat and dust.
3. If the lens, viewfinder and other components become dirty, remove any dust with a blower brush and gently wipe it off with a soft cloth.
4. Do not leave your camera and strobe for extended periods of time in a locked car or in places where it is hot or humid.
5. When the camera or the strobe malfunctions, you should never attempt to disassemble them by yourself, as they possess high voltage circuits.
6. Never disassemble the lithium batteries, subject them to high heat or flame, charge or short them.



## Trouble shooting

| Problem                                                  | Check point                                                                                                                                                       | Remedy                                                                                                                                                                   |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Shutter does not snap.<br>(Green lamp does not light) | <input type="radio"/> Has the film been wound up?<br><input type="radio"/> Are the batteries correctly inserted?<br><input type="radio"/> Battery life is over.   | <input type="radio"/> Turn the wind-up knob to advance the film.<br><input type="radio"/> Correctly insert the batteries.<br><input type="radio"/> Put in new batteries. |
| 2. Strobe does not flash.                                | <input type="radio"/> Has it been installed correctly?<br><input type="radio"/> Is the battery correctly inserted?<br><input type="radio"/> Battery life is over. | <input type="radio"/> Install correctly.<br><input type="radio"/> Correctly insert the battery.<br><input type="radio"/> Put in new battery.                             |
| 3. Prints are blurred.                                   | <input type="radio"/> Camera moved during shooting.<br><input type="radio"/> Spot photographed is out of focus.                                                   | <input type="radio"/> Firmly hold the camera during shooting.<br><input type="radio"/> Focus correctly.                                                                  |
| 4. Prints are whitish.                                   | <input type="radio"/> It is over-exposed.<br><input type="radio"/> There was a finger in the CdS photometer window.                                               | <input type="radio"/> Use a lower speed film.<br><input type="radio"/> Be careful that your finger is not in the window during shooting.                                 |
| 5. Prints are dark.                                      | <input type="radio"/> It is under-exposed.                                                                                                                        | <input type="radio"/> Use a higher speed film or a strobe.                                                                                                               |
| 6. Prints are vignetted.                                 | <input type="radio"/> There was a finger in the lens during shooting.<br><input type="radio"/> Lens cover was not completely opened during shooting.              | <input type="radio"/> Be careful that your finger is not in the lens during shooting.<br><input type="radio"/> Open the lens cover until it stops.                       |

\* If the camera or strobe should malfunction, contact the camera store where you purchased your camera.

## Main Specifications

|                            |                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Film size                  | : Minox type film (8 × 11mm)                                                                                                                   |
| Lens                       | : Azonon F:3.5 / f=15mm, 3 groups, 4 elements Tessar Type                                                                                      |
| Lens apperture             | : F 4.8 (Fixed)                                                                                                                                |
| Viewfinder                 | : Albada type bright frame (with close-up mark 0.3m)                                                                                           |
| Focusing mechanism         | : Eye measurement type, Distance scale 0.3m, 0.6, 1, 2, 4●, ∞<br>Intermediate scale use also possible.                                         |
| Shutter                    | : 2-leaves AE shutter (automatically set by film winding up.)                                                                                  |
| Shutter speed              | : About 2 to 1/500 sec.                                                                                                                        |
| Exposure control           | : CdS photometer, linkage range EV 5 ~ 13 (ISO 100)                                                                                            |
| Slow shutter speed warning | : For ISO 100 warning lamp lights at about 1/30 sec.<br>Manual switch lever type                                                               |
| Film speed setting         | : Manual dial setting type, ISO 25, 50, 100 and 400                                                                                            |
| Film winding               | : Manual advance                                                                                                                               |
| Film counter               | : Automatic zero reset type                                                                                                                    |
| Batteries                  | : Two lithium CR-1/3N, 3V for camera, One lithium 123A for strobe                                                                              |
| Strobe                     | : Guide number 8 (ISO 100/m), Parallel circuit type, Auto-strobe,<br>Built-in auto-off circuit                                                 |
| Size / weight              | : Camera 84mm(W) × 37mm(D) × 21mm(H)<br>Approx. 55g (without batteries)<br>Strobe 61mm(W) × 42mm(D) × 20mm(H)<br>Approx. 38g (without battery) |

\* These specifications and performances are subject to change without prior notice.

Manufactured by  
 ASANUMA CAMERA MECHANICAL LABORATORY Co., Ltd.  
 2-3-7 Hirakawa-chou Ciyoda-ku Tokyo, Japan

Tel. (03)-3264-5111  
 Fax. (03)-3239-7230

Printed in Japan