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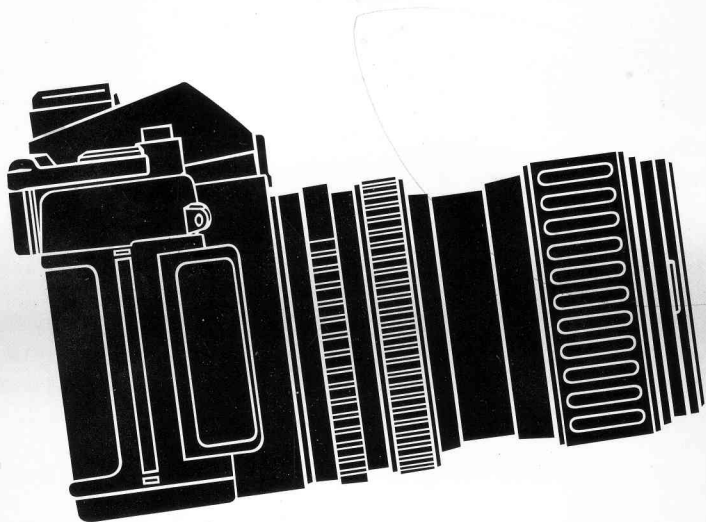
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# HIKARI

TM [www.orphancameras.com](http://www.orphancameras.com)

# 2002



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Instruction booklet • Bedienugsanleitung • Liberetto per luso • Manual de instrucciones

Thank you for choosing the HIKARI 2002. This manual-exposure SLR camera is compact and light and allows you to choose the shutter speed and aperture manually. Please read this operation manual carefully to become familiar with your camera.

\* Though descriptions and illustrations in this manual are based on the Lens 28-70mm F3.4-4.8, you can operate the camera in the same way when you use it with any inter-changeable lenses.

Vielen Dank, daß Sie sich für die HIKARI 2002 entschieden haben. Diese einäugige Spiegelreflexkamera mit manueller Belichtung ist kompakt und leicht. Sie können die Ihnen am geeignetsten erscheinende Belichtungszeit/Blenden-Kombination einstellen. Lesen Sie bitte diese Bedienungsanleitung vor Gebrauch Ihrer Kamera aufmerksam durch, damit Sie mit ihr vertraut werden.

\*Die Erläuterungen und Abbildungen dieser Bedienungsanleitung beziehen sich auf ein 2002 Objektiv 28-70 mm, doch gelten die gleichen Bedienungsverfahren der Kamera auch bei Verwendung anderer Wechselobjektive

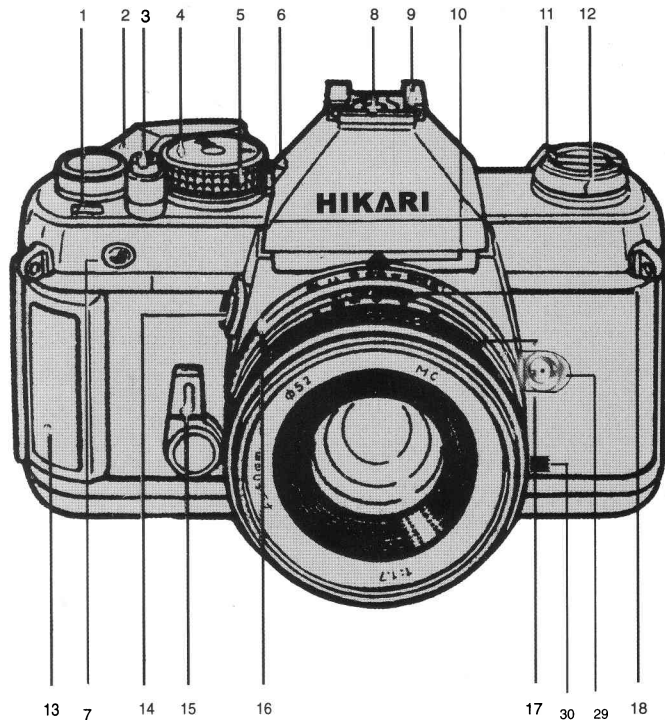
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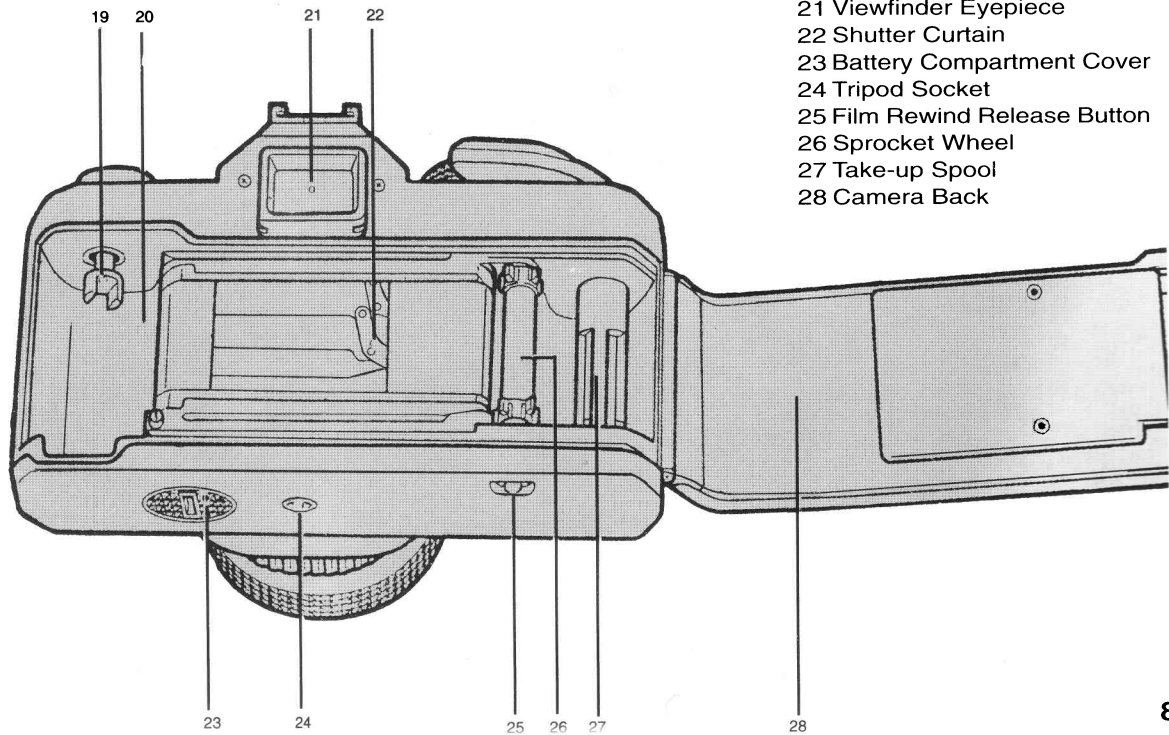
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## Description of Parts



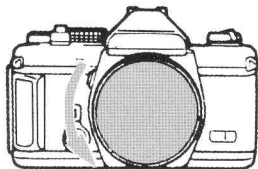
- 1 Exposure Counter
- 2 Film Advance Lever
- 3 Shutter Release Button
- 4 Shutter Speed Dial
- 5 Film Speed Ring
- 6 Shutter Speed Index
- 7 Multiple Exposure Lever
- 8 Direct X Contact
- 9 Accessory Shoe
- 10 Lens Mounting index
- 11 Film Rewind Crank
- 12 Film Rewind Knob
- 13 Grip
- 14 Lens Release Button
- 15 Self Time Lever
- 16 Aperture Ring
- 17 Focusing Ring
- 18 Aperture/Distance Index
- 29 PC Socket
- 30 Depth of Field Button



## Mounting and Dismounting the Lens

### 【Mounting the Lens】

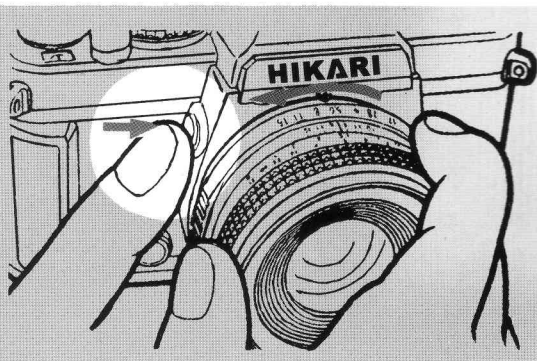
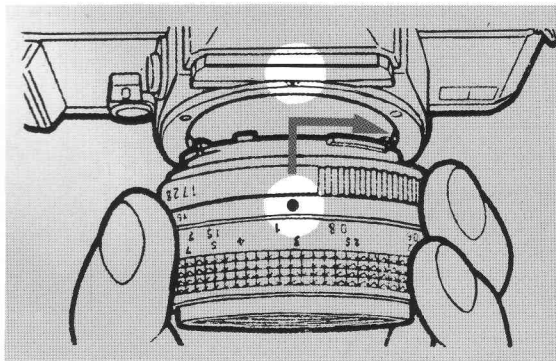
First,remove the camera body cap by turning it counter-clockwise.Then align the red dot on the lens barrel with the lens Mounting Index on the camera body,fit in the lens and turn it clockwise until it locks in place with a click.



### 【Dismounting the Lens】

While pressing in the Lens Release Button,turn the lens counterclockwise as far as it will go,then pull it out toward the front.Once the lens has been dismounted,be sure to put the lens front cap and rear cap on the lens and the body cap on the camera's lens mount to protect them.

- While mounting and dismounting then lens,do not touch the lens glass and the inside of the camera.
- If you are changing the lens with film in the camera,take care to prevent light from entering the inside of the camera.



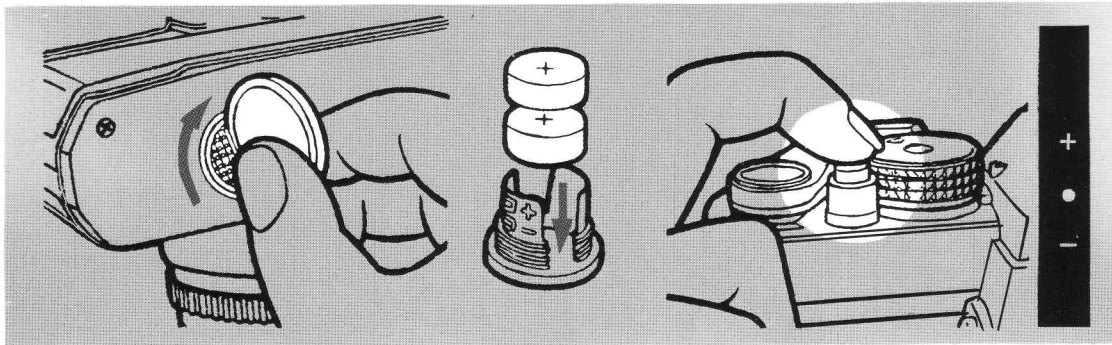
## Battery installation

**Two 1.5 V alkaline batteries(LR44)or 1.55 V silver-oxide batteries(SR44)are needed to provide power for the camera's exposure meter.**

- 1** Remove the Battery Compartment Cover by turning it with a coin.
- 2** Insert the two batteries inside the battery holder with the plus(+)side facing up as shown,then replace the holder in the compartment and tighten its cover.

### [Battery Check]

Check the batteries with the LEDs in the viewfinder.If an LED (red or green)turns on when the Shutter Release Button is pressed halfway in,the batteries are in good condition.If no LED turns on,they are exhausted and must be replaced. Be sure to replace the two batteries at the same time. Because the batteries are used to power only the exposure meter.This camera operates even if they are exhausted or there are no batteries in it.





### **【Battery Precautions】**

- Silver-oxide batteries will last about one year, and alkaline batteries about six months. However, their service life differs depending on their capacity at the time of purchase, the ambient temperature, and how often you take pictures.
- Generally, the battery performance decreases temporarily at low temperatures (under about 0°C). When taking pictures in cold weather, it is recommended to use new batteries and warm the camera before shooting. The batteries affected by cold temperatures will function properly again if they return to normal temperature.
- Before installing the batteries, wipe both poles clean with a dry cloth because poor contact may result if they are soiled.
- If you are carrying your camera on a long trip, bring spare batteries with you.
- Never put batteries into fire or try to disassemble them because it is dangerous.

### **【Hinweise zu Batterien】**

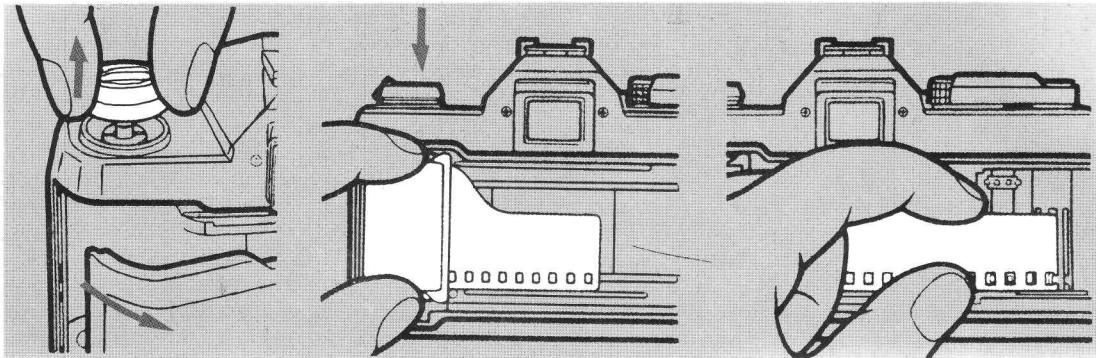
- Die Lebensdauer von Silberoxid-Batterien beträgt etwa 1 Jahr, die von Alkali-Batterien etwa 6 Monate. Die tatsächliche Lebensdauer hängt jedoch vom Zustand der Batterien zum Zeitpunkt des Kaufs, der Umgebungstemperatur und Aufnahmehäufigkeit ab.
- Bei niedrigen Temperaturen (unter 0°C) nimmt die Batterieleistung im allgemeinen vorübergehend ab. Beim Fotografieren unter solchen Bedingungen empfiehlt es sich, neue Batterien zu verwenden, und die Kamera vor dem Fotografieren warm zu halten. Batterien, deren Leistungsfähigkeit durch niedrige Temperaturen beeinträchtigt war, funktionieren bei normalen Temperaturen wieder richtig.
- Vor dem Einsetzen der Batterien beide Kontakte mit einem trockenen Tuch sauberwischen, da durch Verschmutzung schlechter Kontakt verursacht werden kann.
- Wenn Sie eine längere Reise planen, und die Kamera mitnehmen wollen, sollten Sie Ersatzbatterien nicht vergessen.
- Alte Batterien niemals in ein Feuer werfen oder auseinanderzunehmen versuchen, da dies gefährlich ist.

## Film Loading

*Use 35 mm cassette film. Always load and unload film in subdued light (never in direct sunlight).*

- 1** Open the Camera Back by pulling the Film Rewind Knob all the way out.
- 2** Install the cassette in the Film Chamber and push down the Film Rewind Knob. If it does not return smoothly to its original position push it down while twisting it back and forth.

- 3** Pull out the film tip and insert it into any one of the slots in the Take-up Spool.

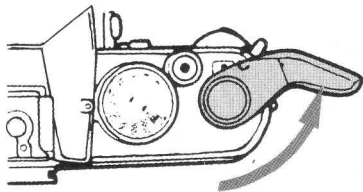


- 4** Operate the Film Advance Lever slowly to advance the film. Make sure the sprocket teeth catch the perforations and close the Camera Back.

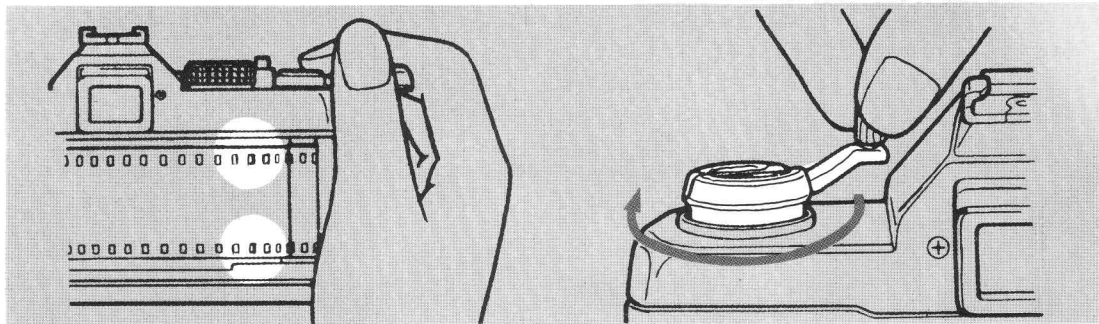
**[Film Advance Lever]**

By turning the Film Advance Lever as far as it will go, the film will advance one frame and the shutter will be cocked at the same time.

Unless it is fully turned, the shutter will not trip.



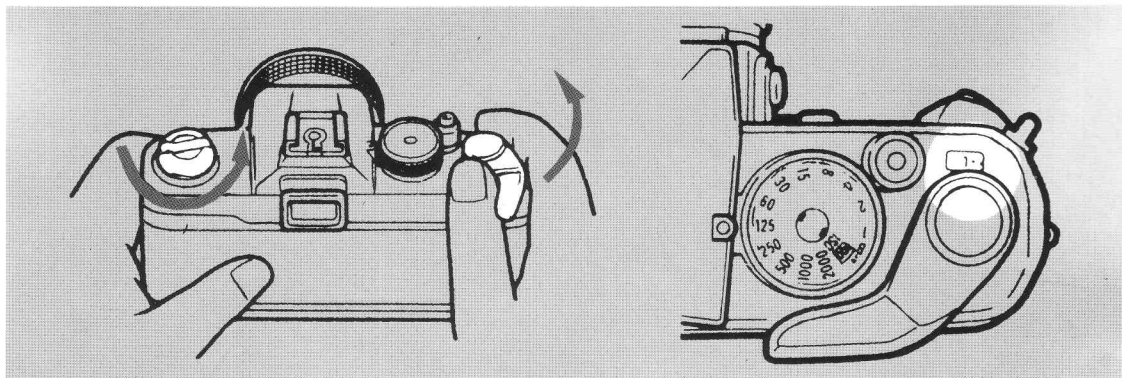
- 5** Fold out the Film Rewind Crank and turn it gently in the direction of the arrow to take up film slack.



**6** Wind the Film Advance Lever and depress the shutter Release Button. Repeat this operation until the Exposure Counter shows "1" The film is advancing properly if the Film Rewind Knob turns while you wind the Film Advance Lever.

### **【Exposure Counter】**

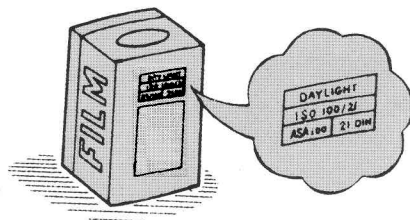
The Exposure Counter will advance each time the Film Advance Lever is wound, and return to "S" when the Camera Back is opened. It is indicated with the letter "S" and the numbers 1,4,6,.....up to 36. The numbers 12,20,24 and 36 are marked in orange to indicate the end of film on commercially available films.



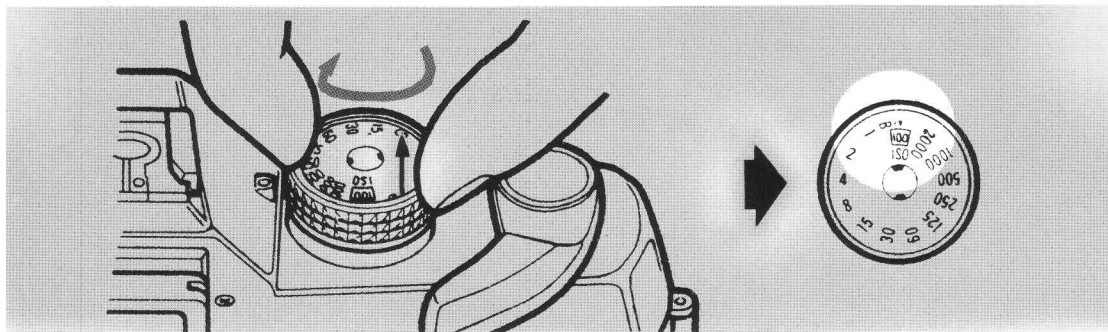
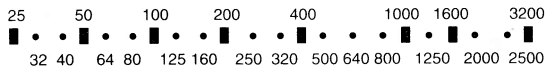
## Setting the Film Speed

*To obtain correct exposure, it is important to set the film speed correctly. The speed of the film you are using is printed on the film box.*

To set the film speed, lift up the Film Speed Ring and turn it until the desired ISO speed comes opposite the index mark (▼)



The ISO speed settings on the Film Speed Ring are as follows:



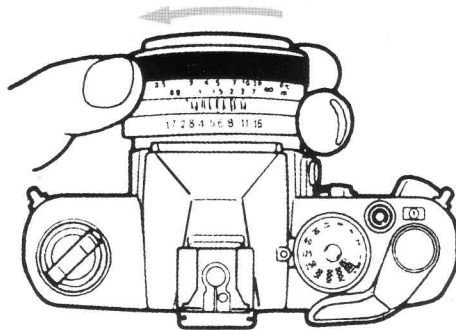
*Focusing is done with a split-image focusing center, microprism collar and a surrounding matte screen.*

### **[Focusing with the Split-Image]**

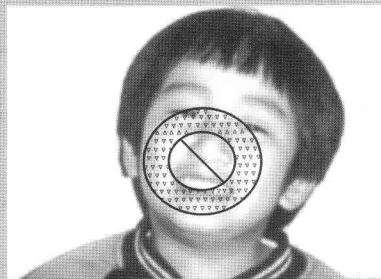
Turn the Focusing Ring until the two segments of the image divided by the horizontal line in split-image center fall in line. If the two segments are not aligned, your subject is not in sharp focus.

### **[Focusing with the Microprism Collar and Matte Screen]**

Turn the Focusing Ring until your subject on the microprism collar or the matte screen appears sharp. It is not in sharp focus if the image appears wavy on the microprism, or blurred on the matte screen.



*In sharp focus/Schart/Immagine ben a fuoco/Enfoque correcto*

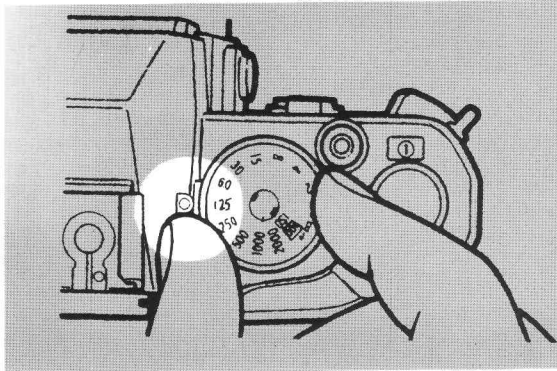


*Out of fous/Unsharp/Immagine fuori fuoco/Desefocado*

# Shutter Speed Aperture

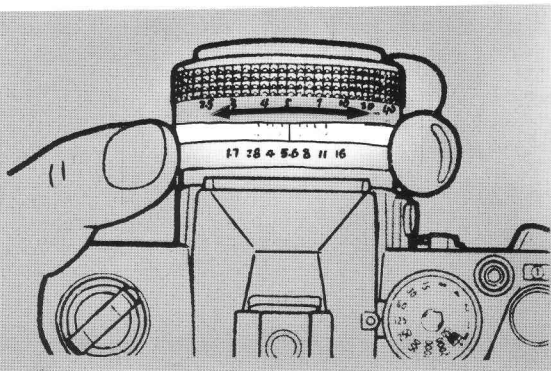
## **【Setting the Shutter Speed】**

The shutter controls the time during which light reaches the film. If the Shutter Speed Dial is turned to a one step higher number (from 125 to 250, for example), the amount of exposure will be reduced by half; if it is turned to a one step lower number, the amount of exposure will be doubled. The numbers "1", "2", ..... "2000" on the dial represent 1, 1/2, ..... 1/2000 second, and the letter "B" is for bulb exposure. To set the shutter speed, turn the Shutter Speed Dial and set the number you want opposite the index. Be sure to set it at the click position.



## **【Setting the Aperture】**

The aperture controls the amount of light that reaches the film. If the Aperture ring is turned to a one step higher number (from 4 to 5.6, for example), the amount of exposure will be reduced by half; if it is turned to a one step lower number, the amount of exposure will be doubled. The aperture not only controls the amount of light, but allows you to take pictures by using the lens' depth-of-field effect. To set the aperture, turn the ring and set the number you want (with click) opposite the Aperture/Distance Index. Intermediate settings can also be used.



***Your camera features a center-weighted metering system which measures the light intensity with emphasis on your subject in the center of the viewfinder. It also measures the brightness in the surrounding area.***

The camera operates on manual exposure. At first, set the film speed. You can choose any appropriate combination of shutter speed and aperture to obtain correct exposure. If you press the Shutter Release Button halfway in, the exposure meter will switch on and an LED will turn on in the viewfinder to indicate exposure. The LED will turn off as soon as you take your finger off the button.

As the exposure meter is based on a center-weighted system, always place your subject in the center of the viewfinder for light metering.

