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Owner's Manual
Manual de instrucciones
Mode d'emploi
Bedienungsanleitung
中文使用說明書

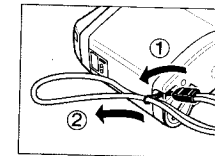
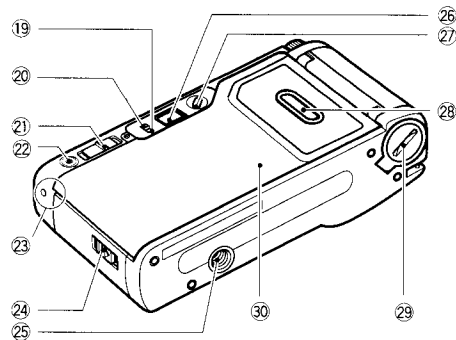
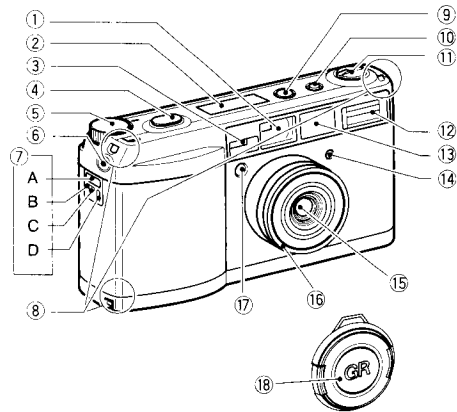


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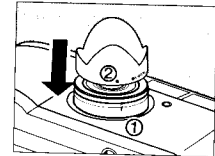


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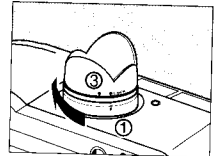


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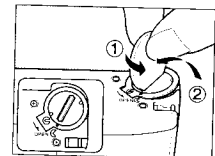


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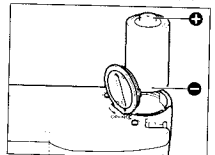


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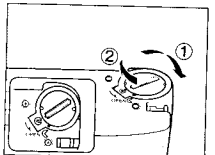


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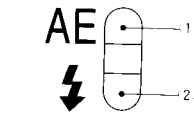


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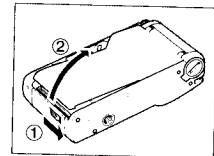


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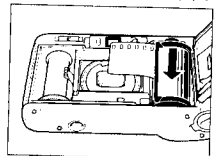


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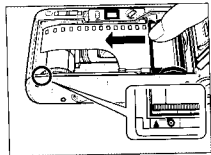


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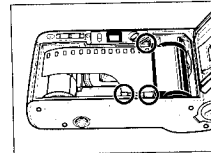


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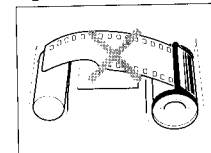


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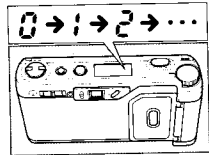


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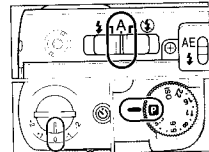


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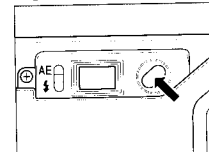


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Fig. 16 Abb. 16 圖 16



Fig. 17 Abb. 17 圖 17

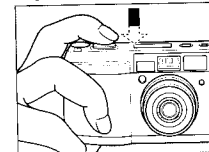


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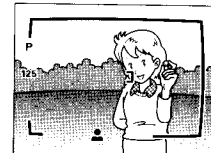


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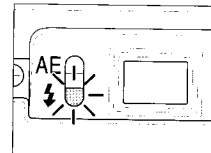


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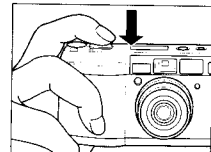


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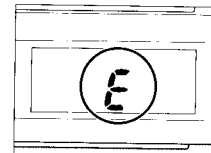


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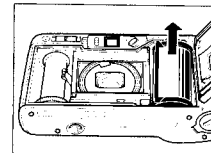


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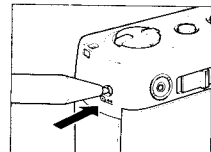


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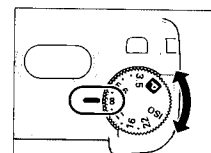


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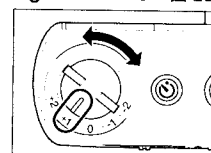


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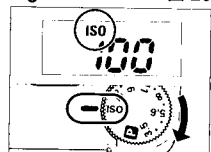


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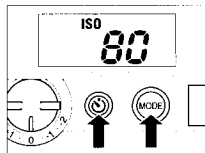


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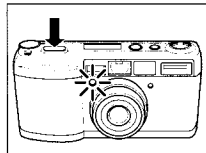


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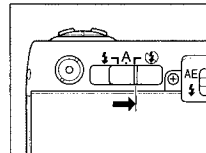


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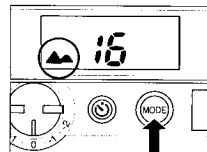


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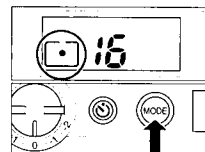


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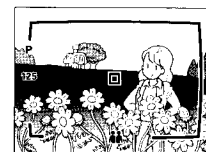


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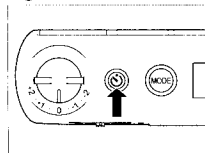


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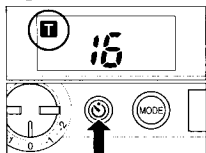


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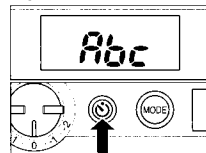


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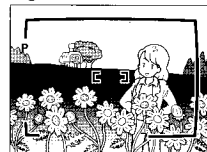


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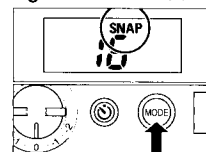


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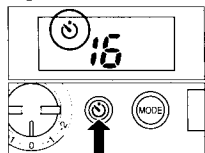


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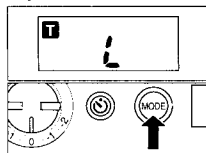


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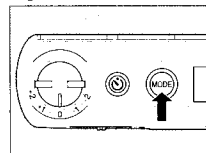


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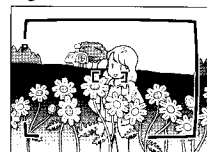


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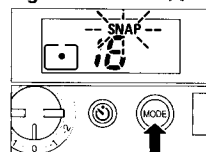


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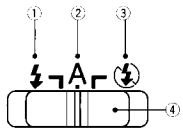


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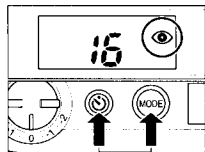


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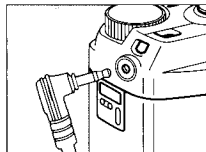


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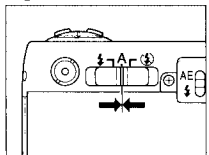


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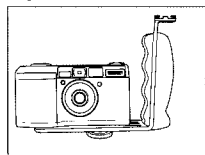


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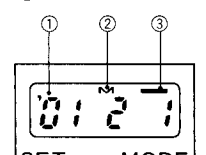


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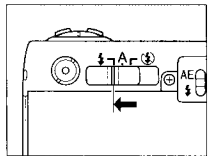


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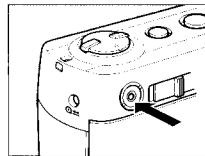


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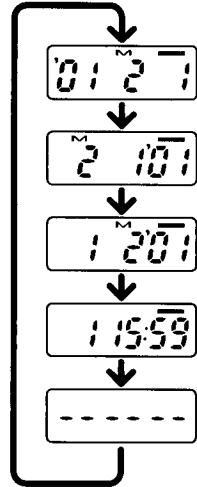


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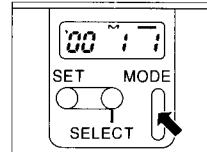


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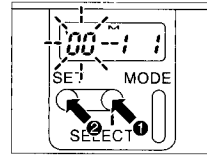


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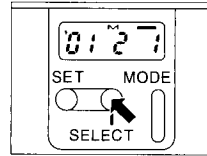


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Fig. 58 Abb. 58 圖 58

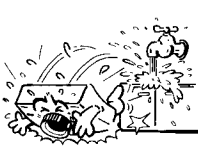


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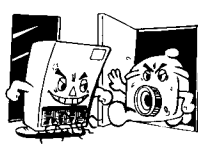


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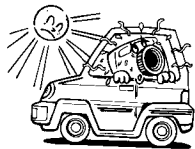


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Fig. 62 Abb. 62 圖 62



Fig. 63 Abb. 63 圖 63

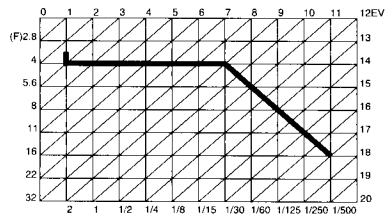


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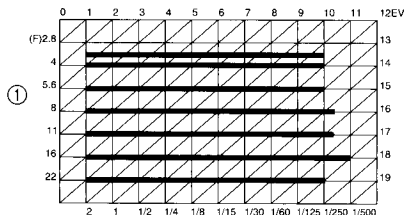


Fig. 65 Abb. 65 圖 65

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MAIN FEATURES

- ▶ Ultra-wide compact, GR Lens 21mm F/3.5
- ▶ Compact body with durable magnesium diecasting
- ▶ Aperture Priority AE
- ▶ Built-in exposure compensation in increment of 1/2 EV.
- ▶ Auto Bracket Mode
- ▶ ISO Manual setting
- ▶ For an External Flash Unit (with Synchro Terminal)

Important!

This camera contains high-voltage circuitry. Never try to take it apart. Doing so creates the danger of serious electrical shock. Be sure to test the camera and learn how it works before using it to take important, irreplaceable pictures (at weddings, on trips abroad, etc.)

LOCATING THE CONTROLS

- | | |
|---|--------------------------------|
| ① Viewfinder Window | ⑮ Lens |
| ② LCD Panel | ⑯ Filter Ring |
| ③ Auto Focus Window | ⑰ Self-timer/AF Auxiliary Lamp |
| ④ Shutter Release Button | ⑱ Lens Cap |
| ⑤ Aperture Dial | ⑲ Flash Monitor Lamp |
| ⑥ Cable Release Socket | ⑳ AE Warning Lamp |
| ⑦ A. Date display panel | ㉑ Flash Mode Switch |
| B. SET Button | ㉒ Synchro Terminal |
| C. SELECT Button | ㉓ Manual Film Rewind Button |
| D. MODE Button | ㉔ Back Cover Latch |
| ⑧ Strap Eyelet | ㉕ Tripod Socket |
| ⑨ Focus Mode Button | ㉖ Viewfinder |
| ⑩  Button (Self-timer/Time Exposure/Auto Bracket Mode) | ㉗ Power Switch |
| ⑪ Exposure Compensation Dial | ㉘ Film Loaded Window |
| ⑫ Built-in Flash | ㉙ Battery Compartment Cover |
| ⑬ Bright Frame Window | ㉚ Back Cover |
| ⑭ Photocell | |

ATTACHING THE STRAP (Fig.1)

ATTACHING THE HOOD (Fig. 2, 3)

1. While the power to the camera is turned off (with the lens retracted), take the hood by its base. Install the hood onto the camera being sure to align the **I** mark located on the Filter Ring (Fig. 2①) with the **●** mark on the hood. (Fig. 2②)
2. Turn the hood clockwise until the **I** mark located on the Filter Ring (Fig. 3①) and the **• LOCK** mark on the hood (Fig. 3③) are aligned. Do not turn the hood too far or try to force it.

Important!

- Be sure to install or remove the hood only when the Power is turned off. Failure to do this could damage the camera.
- Do not touch the inside of the hood because it is easily scratched.
- When carrying the camera with Hood attached, make sure not to bump the camera and Hood into anything.



INSERTING THE BATTERY

The camera is powered by a CR-2 (3V) battery.

1. Rotate the Battery Compartment Cover in the direction indicated by the arrow marked **OPEN** (↺) to open it. (Fig. 4)

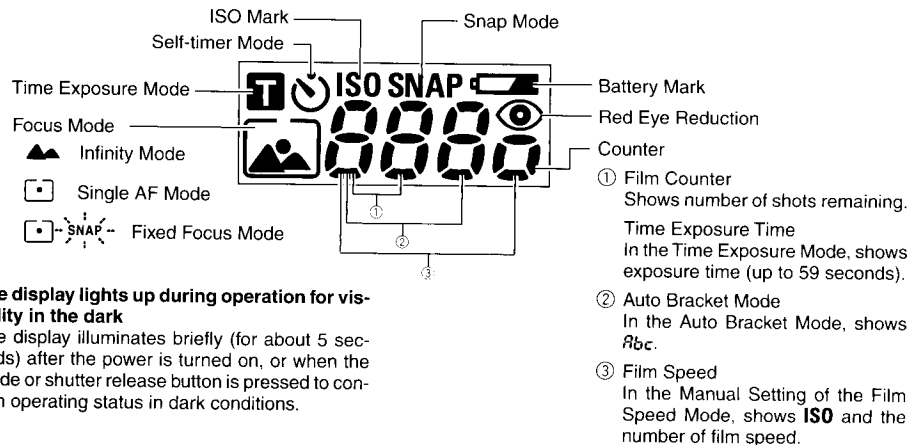
2. Insert the battery. (Fig. 5)
 - ★ Make sure the positive (+) end is facing up (so you can see it).
3. Close the Battery Compartment Cover, lock it by rotating it in the direction opposite that indicated by the arrow marked **OPEN** (↻). (Fig. 6)
 - ★ After the battery has been removed, the date will change. When the battery has been replaced, make sure the correct date and time are showing.
 - ★ We recommend that you always carry extra batteries with you when travelling. This is especially true when travelling overseas, where you may not be able to purchase the type of battery you need.

CHECKING THE BATTERY

LCD Display	Description
(No indication)	When the battery is sufficient.
	When the battery is nearly exhausted.
	When the battery is exhausted.

LCD PANEL INDICATORS

Though the example display shows all the indicators, normally indicators appear only when applicable.



The display lights up during operation for visibility in the dark

The display illuminates briefly (for about 5 seconds) after the power is turned on, or when the mode or shutter release button is pressed to confirm operating status in dark conditions.

- ① Film Counter Shows number of shots remaining. Time Exposure Time In the Time Exposure Mode, shows exposure time (up to 59 seconds).
- ② Auto Bracket Mode In the Auto Bracket Mode, shows **A B C**.
- ③ Film Speed In the Manual Setting of the Film Speed Mode, shows **ISO** and the number of film speed.

INDICATOR LAMPS

The indicator lamps operate to alert you to certain conditions when you press the shutter release button part way down. (Fig. 7)

① AE WARNING LAMP (YELLOW)

This lamp flashes to indicate over or underexposure only.

AE Warning Lamp Status	Shutter Speed Indication in Viewfinder	Meaning
Flashing	Flashing "500"	Overexposure Shutter release is still enabled.
	Flashing "2"	Underexposure Shutter release is still enabled.

② FLASH MONITOR LAMP (RED)

Flash Monitor Lamp Status	Meaning
On	Flash will operate.
Flashing Slowly	Flash is charging, and shutter release is disable . This indicator flashes during recharging regardless of whether or not the shutter release button is pressed down part way.
Flashing Quickly	Flash is too far from subject, and shutter release is enabled . The warning is calculated based on the condition that reversal film is being used. See "Flash Photography" for details on negative film flash ranges.

Note

- When the Flash Switch set to "⚡", Flash Monitor Lamp is not light.

VIEWFINDER INDICATORS

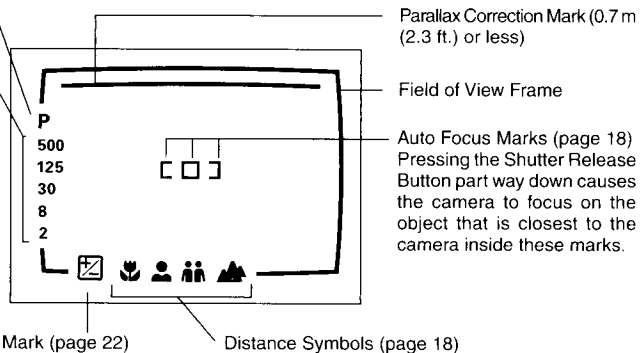
Note

- Certain lighting conditions and subject can cause the contents of the Viewfinder to become difficult to see.





Program Mode

Shutter Speed

- Shutter Speed appear when you take the picture. Appearance of two values indicates a shutter speed between them.
- Flashing 500 indicates overexposure.
- Flashing 2 indicates shutter speed longer than 1/2 second. Flashing 2 indicates underexposure.



DISTANCE SYMBOLS

Symbol	Meaning
	0.3 - 0.7 m (1.0 - 2.3 ft.) With [] or □ Auto-focus Mark flashing Closer than 0.3 m (1.0 ft.). Shutter is disabled while this indicator is flashing.
	0.7 - 1.5 m (2.3 - 4.9 ft.)
	1.5 - 5 m (4.9 - 16.5 ft.) With [] or □ Auto-focus Mark flashing Subject is out of focus or extremely close. Shutter is enabled , with the camera focusing for a distance of 2.2 m (7.2 ft.). See "When the subject is difficult to focus on" for details on hard-to-focus subjects.
	5 m (16.5 ft.) or more

AUTO-FOCUS MARKS

Auto-focus Marks	Status	Meaning
[]	On	Initial configuration of the Auto Focus marks when camera is turned on.
		Infinity Mode
		Snap Mode
	Flashing	Cannot focus
□	On	Center point focus
		Single Auto Focus Mode
		Fixed Focus Mode
	Flashing	Cannot focus
[On	Left side focus
]	On	Right side focus

LOADING THE FILM

When using DX-coded films, setting the film speed is not necessary. Your camera automatically sets the correct film speed. When using a film without a DX code, your camera will automatically set the film speed to ISO 100. Always avoid direct sunlight when loading the film.

1. Push the Back Cover Latch downward to open the Back Cover. **(Fig. 8)**
2. Load a film cassette into the Film Chamber and pull out enough film leader to extend past the mark (▲) of the film leader position. **(Fig. 9, 10)**

★ If there is any dust on the inside Lens surface, use a blower to blow the dust away.

3. Make sure the film stays within the Film Guides and lies flat. **(Fig. 11, 12)**

4. Press the Back Cover shut so that the Back Cover Latch returns to its original position. Then, the film is automatically advanced, and the first frame is set in place. The Film Counter on the LCD Panel displays the number of frames remaining to be exposed (for example, "36" for 36-frame film). **(Fig. 13)**

5. If the film has not advanced correctly and is not taken up onto the Film Take-up Spool, number "0" will blink

on the Film Counter. The Shutter Release Button is locked and you cannot take a picture until the film is loaded properly. (For DX film only)

Reload the film by following steps 1-4 shown above.

- ★ Whether there is film in your camera or not can be confirmed by the Film Loaded Window or the Film Counter on the LCD Panel.
- ★ You can confirm that the Film-wind or Rewind is working properly by observing the Film Counter on the LCD Panel.
- ★ You can load the film in your camera with the power off. However, the LCD Panel display will disappear after loading is complete.
- ★ Do not touch the inner Lens with your fingers or the edge of the film.
- ★ This camera's Pre-wind System automatically pre-winds the film to the end when you load it and rewinds it back into the film cassette as each shot is taken. If the Back Cover is mistakenly opened before the film has reached the end, close it immediately. The film will automatically rewind. When it has completely rewound, the Film Counter will display "E". Remove the film and develop it.

- ★ Sometimes more exposures may be taken than the standard number of frames listed on the film. For this reason, the number of frames counted in the Film Counter on the LCD Panel may sometimes be larger than that listed on the film.

TAKING PICTURES

This section describes how to take pictures in the Program AE Mode.

CAMERA SETUP (Fig. 14)

Aperture Dial: P (Program AE)

Exposure Compensation Dial: 0

Flash Mode Switch: A (Auto Flash Mode)

1. Remove the Lens Cap. Press the Power Switch to turn on the camera. (Fig. 15)
The Lens extends and indicators appear on the LCD Panel and in the Viewfinder.
2. Aim the camera. (Fig. 16)
Always use both hands to steady the camera. When holding the camera vertically, always position it with the flash at the top.

3. Compose the picture in the Viewfinder. (Fig. 17)
★ Shutter release is disabled when the subject being focused on is closer than 0.3 m (1.0 ft.).
4. Press the Shutter Release Button part way down. (Fig. 18)

This performs light metering and auto focus operations, and causes the Auto Focus Marks, the shutter speed, and a Distance Symbol to appear in the Viewfinder. (Fig. 19)

- ★ The Auto Focus Marks flash if the camera cannot focus correctly.
 - ★ When the subject you wish to focus on is not in the Auto Focus Marks in the Viewfinder, or when there is another subject in front of the main subject you wish to focus on in the Auto Focus Marks, you should use Single Auto Focus Mode shooting.
 - ★ The Flash Monitor Lamp lights to indicate that the flash will fire. (Fig. 20)
5. Release the shutter by pressing the Shutter Release Button all the way down. (Fig. 21)

- ★ Be careful not to place your fingers over the Lens, flash, or focusing windows.

Note

- When shooting through glass, position the camera as close as possible to the glass.
- To avoid accidentally releasing the shutter and wasting film, always turn the camera off when you are not using it.
- When a 21mm wide Lens is used, if you take a picture including a bright sky, etc., the light of the object before the bright sky will be insufficient.
- If you use flash, the picture of the right bottom will be slightly dark for structural of the camera.

When the subject is difficult to focus on

The Auto Focus Marks inside the Viewfinder flash to indicate that focusing is not possible under current conditions. You may experience problems when trying to focus the following types of subjects.

- Subjects with little or no contrast (sky, white walls, automobile hoods, etc.)
- Subjects with a smooth surface and horizontal lines only.
- Fast-moving subjects
- Very dark colors
- Repeating patterns
- Subjects emitting or reflecting strong light.


In these cases, it is best to use the Pre-focus technique to “lock” the focus on a more “normal” subject at the same distance. While holding the focus, turn your camera back to the original subject and shoot. (See “Single Auto Focus Mode” for more details.)

AUTO POWER OFF

Camera power turns off automatically if you do not perform any operation for approximately five minutes. Lightly press the Shutter Release Button part way down to turn the power back on.

REMOVING EXPOSED FILM

The film automatically rewinds into the cassette when it reaches the end, and ξ appears on the LCD Panel. (Fig. 22)

1. Open the Back Cover of the camera and remove the film cassette. (Fig. 23)
★ If you wish to rewind the film before reaching the end of the film, push the Manual Film Rewind Button with a pen, etc. (If the Film Rewind Button  is pressed with a pen whilst it is rewinding, the film leader will not be wound into the film cassette and will remain outside.) (Fig. 24)

Note

- A film rewind operation cannot be stopped once it starts.

CREATIVE MODES


- Aperture Priority AE
- Exposure Compensation
- Manual Setting of the Film Speed
- Self-timer/Time Exposure/Auto Bracket Modes
- Focus Modes

APERTURE PRIORITY AE

The camera employs aperture-priority auto exposure that automatically selects a shutter speed to match the setting you make with the Aperture Dial. The aperture can be set in a range of F/3.5 to F/22 in 1/2 steps.

1. Rotate the Aperture Dial until the value you want is aligned with the pointer mark. **(Fig. 25)**
 - ★ In the case of flash photography, a smaller aperture setting lets you shorten the distance between the subject and the camera.
 - ★ A flashing AE Warning Lamp (along with 500 or 2 flashing in the Viewfinder) indicates that proper exposure cannot be achieved under current conditions.

EXPOSURE COMPENSATION

You can set an exposure compensation value within the range of $\pm 2\text{EV}$ in increments of $1/2\text{EV}$. The indicator  is visible in the Viewfinder whenever the exposure compensation dial is set to anything besides "0".

1. Rotate the exposure compensation dial until the pointer mark is aligned with the setting you want. **(Fig. 26)**
 - ★ If the AE Warning Lamp starts to blink (with 500 or 2 blinking in the Viewfinder) when you press the Shutter Release Button part way down after making an exposure compensation setting, it means that the compensation setting is beyond the camera's exposure coupling range and the specified exposure value cannot be attained.



MANUAL SETTING OF THE FILM SPEED

This setting is selected to use a non-DX film or set the film speed different from the one which is automatically set. When the film speed is manually set, the LCD Panel displays ISO film speeds. Setting of the film speed can be varied from ISO 25 to ISO 3200 by a step of $1/3\text{EV}$.

1. Rotate the Aperture Dial to set to ISO. **(Fig. 27)**
The LCD Panel displays ISO film speed and the film speed automatically detected by the camera.

Note


The indication of the film speed is 100 when a film is unloaded or a non-DX film is loaded.

2. Press the Focus Mode or  Button to display the required film speed on the LCD Panel.
 - ★ The film speed is set to be higher when the Focus mode button is pressed. When the  Button is pressed, the film speed is set to be lower. **(Fig. 28)**
3. Rotate the Aperture Dial to revert to the programmed AE or Aperture priority AE.
The indication of ISO remains on the LCD Panel while the indication of the film speed disappears from the LCD Panel.

Note

If a picture is taken with the Aperture Dial in alignment with ISO, that picture is the one taken in the programmed AE mode (F/22) at the set the film speed.

To cancel the manual setting of the film speed

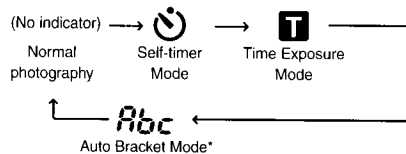
- Rotate the Aperture Dial to set to ISO. Then press the Focus Mode Button and  Button at the same time. The film speed prior to setting on the LCD Panel.
- Follow the same procedure with the manual setting to display the film speed prior to setting on the LCD panel.
- When replace the film. (when open the Back Cover)
- When replace the battery. However the manual setting is not cancelled when the film in the Film Chamber.

Note

The manual setting is not cancelled When the power is turn off or Auto Power Off operates.

SELF-TIMER/TIME EXPOSURE/AUTO BRACKET MODES

Each press of the  Button changes modes in sequence shown nearby. (Fig. 29)





* This mode functions only in the Flash-off Mode.

Note


- The Self-timer and Time Exposure Modes are exited automatically whenever the shutter is released.

SELF-TIMER MODE

Mount the camera on a tripod whenever using the Self-timer Mode.



1. After composing the picture, use the  Button to display the  indicator on the LCD Panel. (Fig. 30)
2. Press the Shutter Release Button. (Fig. 31)



The Self-timer/AF Auxiliary Lamp on the front of the camera stays on for about eight seconds. Then, it flashes for about two seconds. The shutter releases a total of about 10 seconds after you press the Shutter Release Button.

- ★ Press the  Button to cancel a Self-timer operation before the shutter releases.
- ★ Pressing the Shutter Release Button any time while the Self-timer/AF Auxiliary Lamp is lit or flashing releases the shutter.

TIME EXPOSURE MODE

The Time Exposure Mode makes it possible to keep the shutter open for virtually as long as you want. Be sure to put the camera onto a tripod before using the Time Exposure Mode.



1. Use the  Button to display the  Time Exposure Mode indicator on the LCD Panel. (Fig. 32)
2. Press the Shutter Release Button.
The shutter opens and a count indicating the time in seconds that the shutter has been opened appears on the LCD Panel.

- ★ When the count on the LCD Panel reaches 60, the LCD Panel clears, but the shutter stays open. Pressing the Focus Mode Button or Shutter Release Button part way down displays the  indicator along with an "i" indicator to let you know that a time exposure operation is in progress. (Fig. 33)
3. Press the Shutter Release Button again to close the shutter.
 - ★ The shutter will close whenever the Power Switch is turned off or the  Button is pressed.

AUTO BRACKET MODE

Press the Shutter Release Button once, produces three successive pictures changing the exposure in order of the correct exposure (0EV), underexposure (-0.5EV), and overexposure (+0.5EV).

This mode is especially effective for a reversal film in use.

1. Slide the Flash Mode Switch to the  setting. (Fig. 34)
2. Press the  Button to display *Abc* on the LCD Panel. (Fig. 35)
3. Press the Shutter Release Button.
The Shutter will open 3 times and the film will advance automatically 3 times. The number shown in the Film Counter will be reduced by 3.

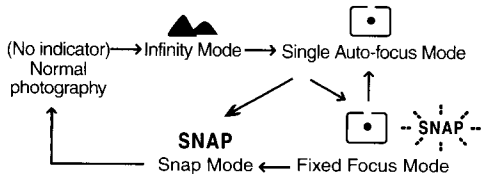
Note

- This process can not be performed in the Auto Flash Mode or Flash-on Mode.
- This mode is cancelled,
 - when the setting is changed to the Auto Flash Mode or Flash-on Mode.
 - when the battery is changed or the Back Cover is opened.
- When the exposure to start, the Flash Monitor Lamp and AE Warning Lamp momentarily lights before photographing of two and three shots takes.
- Photographing of three shots takes no less than 3 seconds. To prevent a blurry picture, hold the camera steadily or use the tripod.

FOCUS MODES

Each press of the Mode button changes modes in sequence shown nearby. (Fig. 36) The Lens extends when the mode is set.

- ★ Do not touch the body of the Lens when the Lens is extended, because it may affect focusing.



Note

- The focus mode does not change if camera power is turned off, except that the Fixed Focus Mode changes to the Single Auto Focus Mode.

INFINITY MODE

This mode lets you obtain sharply focused pictures of distant images.

- Use the Focus Mode Button to display the indicator on the LCD Panel. (Fig. 37)

Note

- In the Infinity Mode, focus is fixed at infinity so the Auto-focus Marks in the Viewfinder does not change no matter where your subject is located.
- Operation of the flash in the Infinity Mode can result in underexposure. In dim light, set the Flash-off Mode and mount the camera on a tripod to prevent movement while the picture is being taken.

SINGLE AUTO-FOCUS MODE

Use the Single Auto Focus Mode to lock the focus in the following situations.

- When the object you want to focus on is not located within the Auto-focus Marks. (Fig. 38)
 - When there are objects within the Auto-focus Marks between the camera and the object you want to focus on. (Fig. 39)
- Use the Focus Mode Button to display the indicator on the LCD Panel. (Fig. 40)
 - Look through the Viewfinder and aim the camera so the object you want to focus is inside the Auto Focus Marks. (Fig. 41)

- Press the Shutter Release Button part way down. When the Distance Symbol appears without flashing the Auto Focus Marks, the focus is locked. (Fig. 42)
- Keeping the Shutter Release Button pressed part way down, re-aim the camera so the picture is composed the way you want it, and press the Shutter Release Button all the way down to take the picture. (Fig. 43)

Note

- At EV6 and above, center-weighted light metering is used. Below EV6, average light metering is used.

SNAP MODE

The Snap Mode fixes focus at a distance of about 2 meters.

- Use the Focus Mode Button to display the **SNAP** indicator on the LCD Panel. (Fig. 44)

FIXED FOCUS MODE

- This mode lets you fix the focus for a specific distance.
- Use the Focus Mode Button to enter the Single Auto Focus Mode. (Fig. 40)

- Perform steps 1 through 3 of the procedure on page 26 to lock the focus on the object you want.
- Keeping the Shutter Release Button pressed part way down, hold down the Focus Mode Button for about one second until the **SNAP** indicator starts to flash on the LCD Panel. (Fig. 45)
The **SNAP** indicator means that focus is fixed.

Exiting the Fixed Focus Mode

- Press the Focus Mode Button until the **SNAP** indicator disappears from the LCD Panel.
- Press the Power Switch to turn off.

FLASH PHOTOGRAPHY

The Built-in Flash of this camera provides additional light when it is needed. A red eye reduction setting is also provided.

Flash Mode Switch (Fig. 46)

- | | |
|------------------|---------------------|
| ① Flash-on Mode | ② Auto Flash Mode |
| ③ Flash-off Mode | ④ Flash Mode Switch |

Note

- The slowest shutter speed when using program AE is 1/30 second.

The Flash Monitor Lamp lights to indicate that the flash will fire when you press the Shutter Release Button part way down.

Recommended Flash Ranges

Film Speed	Reversal Film	Negative Film
ISO100	0.3 - 1.6 m (1.0 - 5.4 ft.)	0.3 - 2.3 m (1.0 - 7.5 ft.)
ISO400	0.3 - 3.3 m (1.0 - 10.7 ft.)	0.3 - 4.6 m (1.0 - 15.1 ft.)

AUTO FLASH MODE

The Auto Flash Mode fires the flash automatically when available light is low or when you shoot a backlit subject (within 3 m). When the subject is near, the intensity of the flash is adjusted automatically to provide a softer light for natural colors.

Important!

- Using higher speed films for photographing nearby subjects can result in overexposure.


1. Slide the Flash Mode Switch to the "A" setting. (Fig. 47)
The red Flash Monitor Lamp lights when you press the Shutter Release Button part way down to indicate that the flash will fire. (Fig. 20)

Note

- When taking pictures of backlit subjects (within 3 m), the Flash fires automatically. Thus, with backlit subjects, natural looking pictures can be taken easily and automatically.

FLASH-ON MODE

Use this mode when you want the flash to fire every time you press the Shutter Release Button.


1. Slide the Flash Mode Switch to the  setting. (Fig. 48)

Important!

- When the Flash-on Mode is selected and aperture priority AE is used for photographing in a dimly lit area, the camera's shutter speed will be automatically reduced up to 2 sec. To prevent a blurry picture, mount the camera on a tripod and press the Shutter Release Button gently.

FLASH-OFF MODE


This mode forcibly prevents automatic firing of the flash, thus allowing available light photography in museums, churches, etc. where flash photography is prohibited.



1. Slide the Flash Mode Switch to the  setting. (Fig. 34)

- ★ In dim light, the camera's shutter speed will be automatically reduced up to 2 sec. To prevent a blurry picture, hold the camera steadily or use the tripod, and press the Shutter Release Button gently.

RED EYE REDUCTION MODE



Selecting this mode makes it possible to minimize the red-eye effect that sometimes occurs when taking portrait photographs with flash. Now it's easy for anyone to take superior shots of people.

- ★ The Red Eye Reduction Mode operates only  indicator is on the LCD Panel and flash is fire.

1. Hold down both the  Button and the Focus Mode Button for about one second until the  indicator appears on the LCD Panel. (Fig. 49)
2. Press the Shutter Release Button. The flash system will begin its Pre-flash Cycle. After a brief delay, the Main Flash will then fire.

- ★ You should advise your subjects that you are using Red Eye Reduction flash and they should wait for a second.

Exiting the Red Eye Reduction Mode

- Hold down both the  Button and the Focus Mode Button for about one second until the  indicator disappears from the LCD Panel.
- The camera does not exit the Red Eye Reduction Mode when you turn it off.

PHOTOGRAPHING WITH AN EXTERNAL FLASH

Stronger light can yields a long distance picture with use of an external flash.

1. Mount a commercially available Flash Bracket onto a Tripod Socket. (Fig. 50)
2. Insert the synchro-cord of the flash into the Synchro Terminal. (Fig. 51)

Note

A flash without synchro cord cannot be used. Use the flash with synchro cord or Flash Bracket.

3. Rotate the Aperture Dial to set the aperture priority AE mode. **(Fig. 25)**

The aperture is adjusted based on photographic conditions (distance and ISO) and setting values of the flash.

Important!

Exposure deviation may occur due to variation of the aperture affected by ambient light when a picture is taken in the Programmed AE.

Note

Refer to Instruction Manual of the flash for the setting values of an external flash.

4. Press the Shutter Release Button after completion of built-in and external flashes.

Both built-in and external flashes emit light simultaneously.

Important!

Because of simultaneous flashing from built-in and external flashes, the set condition of adequate exposure setting for the Built-in Flash yields overexposure by an amount of light from the external flash. Therefore, it is recommended to release the shutter at the timing of quick blinking of the flash lamp.

Note

When the Built-in Flash does not emit light, neither does the external flash even if it is charged enough.

REMOTE CONTROLLED PHOTOGRAPHY (SOLD SEPARATELY)

Using a Electrical cable release (sold separately) is effective to reduce blurring.

1. Press the Power Switch to turn off the power.
2. Insert the Electrical cable release into the Cable Release Socket of the camera. Then Press the Power Switch to turn on. **(Fig. 52)**

Note

Insertion or removal of the Electrical cable release may release the shutter while the power is on.

DATE IMPRINTING

The data imprinting feature of the GR21 camera lets you imprint the current date or time on your photographs.

DATE DISPLAY AND CONTROLS (Fig. 53)

- ① Date Display Panel
- ② Month Mark
This mark appears above the digits that indicate the month setting. This mark is not imprinted on the photograph.
- ③ Imprint Mark
This mark indicates that the date or time will be imprinted when a picture is taken. It flashes for about two or three seconds after you press the Shutter Release Button to indicate when an imprint operation is being performed. This mark is not imprinted on the photograph.
- ④ SET Button
- ⑤ SELECT Button
- ⑥ MODE Button

SELECTING THE IMPRINT DATA FORMAT

Each press of the MODE Button changes the format of the imprint data on the Date Display Panel as shown nearby. **(Fig. 54)**

- | | |
|------------------|--------------------|
| ① Year/Month/Day | ② Month/Day/Year |
| ③ Day/Month/Year | ④ Day/Hour/Minutes |
| ⑤ Imprint Off | |


Important!

- Imprint data may not be visible if the area behind it is colored white or orange.

SETTING THE CURRENT DATE AND TIME


Use the following procedure to set the current date and time after replacing the battery, etc.

1. Use the MODE Button to select the imprint data format whose settings you want to change. **(Fig. 55)**
 - ★ Select one of the date formats to change the date setting, or the Day/Hour/Minutes setting to change the time setting. Note that you cannot change the day setting with the Day/Hour/Minutes format.

2. Press the SELECT Button and the currently set digits on the Date Display Panel flash, because they are selected. **(Fig. 56)**
 3. Use the SET Button to change the currently selected (flashing) digits.
Each press of the SET Button increments the selected digits by one. Holding down the SET Button increments the setting at high speed.
 4. Press the SELECT Button to select the digits of the next setting.
 5. Pressing the SELECT Button while the digits for the last setting are selected causes the Imprint Mark  to appear on the Date Display Panel. **(Fig. 57)**
- ★ Repeat steps 3 and 4 as many times as necessary to set all of the digits on the display.

Note

- After the battery has been removed, the date will change. When the battery has been replaced, make sure the correct date and time are showing.
- Use a ball-point pen or other similar object to press the buttons.
- Date imprinting will not operate while any setting is flashing on the Date Display Panel. Make sure you

press the SELECT Button until the Imprint Mark  appears after you make the settings you want.

PROPER CARE OF YOUR CAMERA

- ★ Never attempt to wipe dust or dirt from the camera's Lens or windows with your fingers. Always use a blower to blow the dust away, or wipe the surface gently with camera Lens tissue or a soft cloth. **(Fig. 58)**
- ★ Impact, high humidity, salt, and other abnormal conditions can cause the camera to malfunction. Carefully wipe off the camera after using it at the beach or areas subjected to salt spray, high humidity, or chemicals. **(Fig. 59)**
- ★ Take care not to expose the camera to sudden changes in temperature, which can cause condensation to form on the Lens, on the film, inside the camera body, or on other surfaces. **(Fig. 60)**
- ★ Do not leave the camera for long periods in your car, in direct sunlight or in any other area subjected to extremely high temperatures. Doing so can ruin your film and even cause the camera to malfunction. **(Fig. 61)**

- ★ When using a tripod, the screw length should be less than 5.7mm (1/4 in.). Never try to force a longer screw into the mounting hole. **(Fig. 62)**
- ★ Do not leave the camera near a TV, radio, or any other device that generates strong magnetic fields. **(Fig. 63)**

BATTERY PRECAUTIONS

- ★ Use only the specified battery type.
- ★ Never expose batteries to direct heat or allow them to become shorted. Never try to take batteries apart and do not charge batteries. Doing so creates the danger of batteries bursting, fire, personal injury, and acid damage.
- ★ Extreme cold (below 0°C) can cause battery performance to deteriorate, and the battery mark to flash on the LCD Panel. Under such conditions, warm the battery in your pocket or alternate multiple batteries, keeping one warm when it is not loaded in the camera. A cold battery will recover its performance once it is returned to normal temperature.

FILM PRECAUTIONS

- ★ Use up all the film in a roll and have it processed within a reasonable amount of time. Leaving film in the camera for a long time can cause discoloration.
- ★ Even placed inside a camera, the film will not be x-ray protected. Therefore, notify the inspector at the airport that there is film in the camera and avoid exposing the camera to x-ray.

MAJOR SPECIFICATIONS

Type:	35 mm autofocus Lens shutter camera.
Lens:	GR Lens 21 mm F3.5 (9 elements, 6 groups) multi-coating aspherical glass lens elements.
Focusing:	Passive-type multi-autofocus with focus lock and 3-point indication, automatic auxiliary AF light under low lighting.
Focusing Mode:	Infinity Mode. Single AF Mode. Snap Mode. Fixed Focus Mode. Distance measuring range; 0.3 m (1 ft.)-infinity.
Shutter:	Programmed electronic shutter.
Shutter Speeds:	Programmed AE; approx. 2 - 1/500 sec. Aperture Priority AE; approx. 2 - 1/250 sec. Time Exposure Mode.
Viewfinder:	Reverse galilean type with LCD bright frame, in-viewfinder illumination under low light.
Viewfinder Field of View Factor:	83%
Viewfinder Magnification:	0.33
Viewfinder Diopter:	-1dpt.
Exposure Control:	Programmed AE. Aperture Priority AE. Dual SPD Photocell. Automatic flash for back light subjects up to 3.0 m (9.8 ft.). Auto Bracket Mode.

Exposure Coupling Range:	EV2.5-17 (ISO 100)
Exposure Compensation:	- 2 to +2EV (1/2EV steps)
Film Speed:	ISO 25-3200, compatible with DX code system. Non-DX films are set to ISO 100. Manual ISO setting possible (1/3 EV steps).
Film Loading:	Ricoh auto-load pre-wind system. Film pre-winds to the last frame number when Back Cover is closed. Mid-roll rewind is possible.
Film Counter:	Electronic, counts down number of exposures left.
Built-in Flash:	Electronic flash that automatically adjusts light amount to ambient light conditions. Automatic flash for dim light and back light conditions. Automatic soft flash for subject at close range.
Flash Modes:	Auto Flash Mode. Flash-on Mode. Flash-off Mode. Slow Synchro Mode. Red-eye Reduction Mode.
Flash Range :	ISO 100 reversal film; 0.3-1.6 m (1-5.4 ft.) ISO 400 reversal film; 0.3-3.3 m (1-10.7 ft.) ISO 100 negative film; 0.3-2.3 m (1-7.5 ft.) ISO 400 negative film; 0.3-4.6 m (1-15.1 ft.)
Flash Recycle Time:	About 5 sec.
Self-timer:	Built-in 10-seconds digital timer, operation indicated by LED.

Auto Power Off:	Approx.5 min. after operation.
Power Source:	1 x 3V lithium battery (CR2 or equivalent)
Other Feature:	Cable Release Socket. Synchro Terminal. Date imprinting. 30.5mm filter attachable.
Dimensions (W x H x D):	117 x 64 x 26.5 mm (4.6 x 2.5 x 1 in.) (not including lens barrel) 117 x 64 x 38.5 mm (4.6 x 2.5 x 1.5 in.) (including lens barrel)
Mass/Weight:	200 g (7.2 oz.) without battery.
Optional Accessories:	30.5 mm filters (PL,MC-Y2,MC-1B,6x-CROSS,MC-ND4). Electrical cable release.

EXPOSURE CONTROL DIAGRAMS

Program AE (Fig. 64)

Aperture Priority AE (Fig. 65)

① Aperture (F) ② Shutter Speed (seconds)