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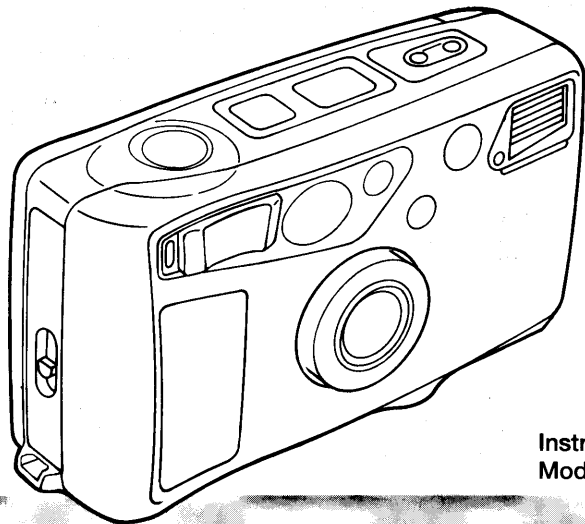
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Instruction manual • Bedienungsanleitung  
Mode d'emploi • Manual de instrucciones

**YASHICA** *T4# super / T4# super D*

**Thank you for your purchase of this camera.**  
**Before using the camera, please read this Instruction**  
**Manual carefully through to use it correctly.**

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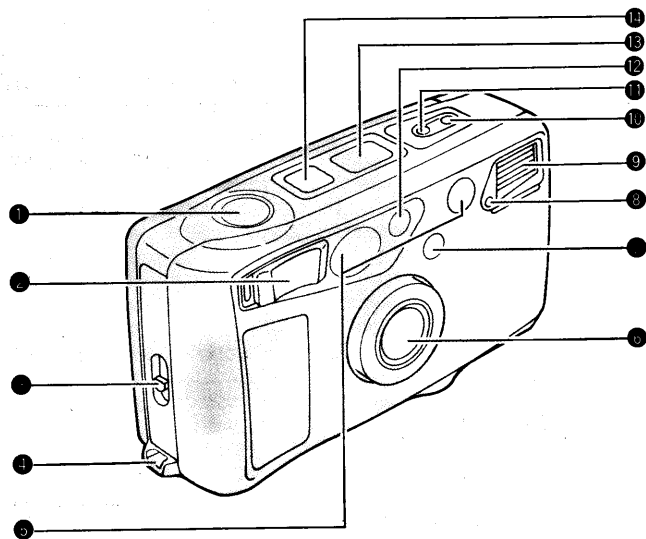
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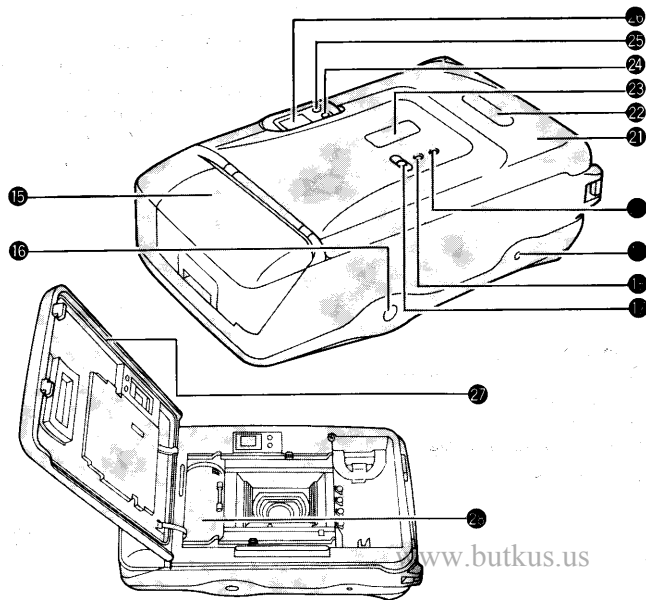
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## Names of Parts



- ① Shutter Release Button
- ② Main Switch
- ③ Camera Back Release Knob
- ④ Strap Lug
- ⑤ Focusing Window
- ⑥ Taking Lens/Lens Cover
- ⑦ Light Sensor
- ⑧ Self-timer LED
- ⑨ Flash
- ⑩ Picture-taking Mode Button
- ⑪ Self-timer Button
- ⑫ Viewfinder
- ⑬ Display Panel
- ⑭ Super Scope

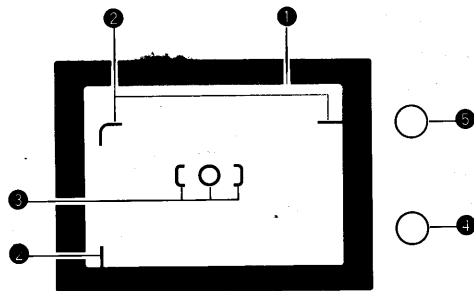


- 15 Battery Compartment/Cover
- 16 Tripod Socket
- 17 Date Mode Button\*
- 18 Date Select Button\*
- 19 Manual Rewind Button
- 20 Date Set Button\*
- 21 Camera Back
- 22 Film Check Window
- 23 Date Display Window\*
- 24 Green LED
- 25 Red LED
- 26 Viewfinder Eyepiece
- 27 Rubber Packing
- 28 Film Takeup Spool

\*: for models with data back only.

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## Viewfinder Display



### ① Picture Area Frame

Under normal distance conditions, keep the subject within this frame when shooting.

### ② Close-range Picture Area Frame

When shooting under close-range conditions (approximately 0.7-0.35 m from subject), keep the subject framed within these picture area frame.

### ⑤ Focusing Frame

The camera focus is adjusted, based on that part of the subject located within these focusing frame. If you wish to lock the focus on one specific part of the subject scene, point the camera so that the central circle "O" is pointing at that part of the scene you wish to be in focus.

### ④ Green LED

### ⑤ Red LED

## Green and Red LED indicators

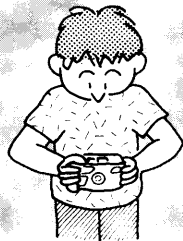
	Status	Meaning
<b>Green LED</b> (displayed when shutter release button is depressed half way)	Lighting	In focus
	Blinking	Not in focus
<b>Red LED</b>	Lighting (displayed when shutter release button is depressed half way)	Appears in auto-flash-mode, red-eye reduction auto-flash mode, and flash-IN mode to indicate that flash will operate.
		In flash-OFF mode and landscape mode, warns of slow shutter speed and possibility of camera shake.
	Blinking	During flash charging (disappears when recharging is completed)

## Grüne und rote LEDs

	Zustand	Bedeutung
<b>Grüne LED</b> (bei angetipptem Auslöser)	Leuchtet	Schärfe eingestellt
	Blinkt	Unschärf
<b>Rote LED</b>	Leuchtet (bei angetipptem Auslöser)	Erscheint bei Blitzautomatik, Verringerung roter Augen und Blitz bei jeder Aufnahme zur Anzeige, daß Blitz zünden wird
		Warnt bei Blitzabschaltung und Unendlich-Einstellung vor langer Verschlusszeit und Verwacklungunschärfe
	Blinkt	Während der Wiederaufladung des Blitzgeräts (erlischt anschließend)



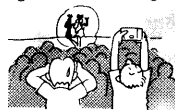
Center set up mark  
AF-Meßfeld  
Repère de centrage  
Marca de determinación del centro



Shooting from low angles  
Aufnahme aus tiefem Winkel  
Prise de vue avec un angle fermé  
Fotografías desde ángulos bajos



Shooting from high angles  
Aufnahme aus hohem Winkel  
Prise de vue avec un angle ouvert  
Fotografías desde ángulos elevados



Without the Super Scope  
Ohne Super-Aufsichtssucher  
Sans la Super Visée  
Sin el Visor Súper



With the Super Scope  
Mit Super-Aufsichtssucher  
Avec la Super Visée  
Con el Visor Súper

### <Super Scope>

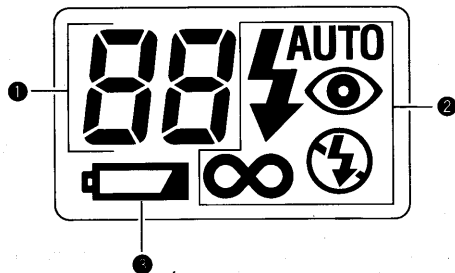
The Super Scope is convenient for taking pictures from very high or low angles, or merely when attempting a new perspective in your photography. To use the Super Scope, hold the camera at least 20 cm from your face, so that your line of sight is perpendicular to the scope window. When taking photographs, compose the subject in the center of the Super Scope,

then press the shutter release normally to focus and shoot.

- The left-right orientation of the image seen in the Super Scope will be reversed, and the image frame covers a narrower portion of the subject than that seen in the normal viewfinder.
- The Super Scope is provided as a supplement to the normal viewfinder.




## Display Panel




(For purposes of explanation, the accompanying illustration shows the display panel with all indicators displayed; in practice, the panel actually displays only those indicators necessary at the time.)


### ① Exposure Counter/Self-timer Remaining Time

### ② Picture-taking Mode Marks

Auto-flash mode: 

Red-eye reduction auto-flash mode: 

Flash-IN mode: 

Flash-OFF mode: 

Landscape mode: 

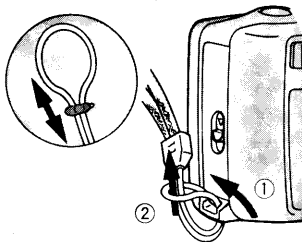
### ③ Battery Warning Mark

### Camera Strap

Attach the strap to the camera as shown.

### Courroie de l'appareil

Fixez la courroie sur l'appareil selon l'illustration.



### Tragegurt

Bringen Sie den Gurt wie abgebildet an die Kamera an.

### Correa para la cámara

Acoplar la correa a la cámara como se indica.

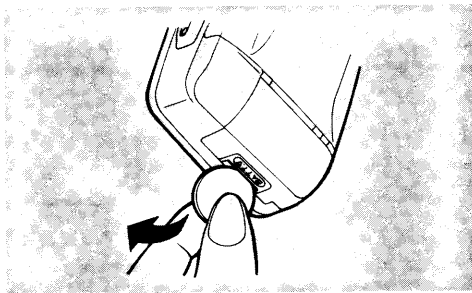
***Basic Procedures for Taking Pictures***

***Normaler Aufnahmebetrieb***

***Opérations de base avant la prise de vues***

***Procedimientos básicos para la realización de fotografías***

## 1. Loading the Battery.

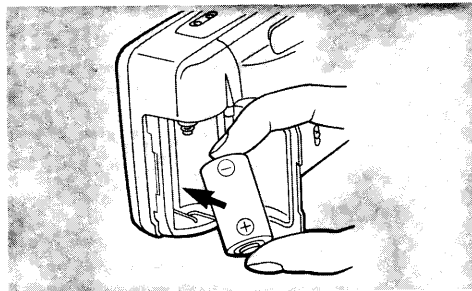


For models equipped with data back, be sure to set the date and time whenever first loading a new battery. See the "Printing the Date and Time" section below.

**① Set the main switch to OFF, then open the battery compartment cover.**


Insert a coin into the battery compartment cover groove, and press toward the lens side to open the compartment cover.

- The battery compartment cover may be difficult to open due to the weatherproof con-



struction. Always use a coin to open the cover; do not attempt to open it with your fingernails.

**② Load a new 3V lithium battery (CR123A or DL123A) into the compartment, taking care to match the +/- polarities with the diagram on the inside of the compartment.**

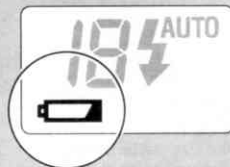
- Set the main switch to ON, and check the display. If the battery warning mark "  " does not appear, the battery can be used.
- The data back function is powered by the same main battery in the camera body.



OK  
OK  
Pile bonne  
OK

### <Battery Replacement>

The battery should be replaced as soon as possible after you notice the battery warning mark "⬇" appearing in the display panel. If the battery voltage drops below its operating limit, all display panel indicators will cease to appear and the camera will not function.

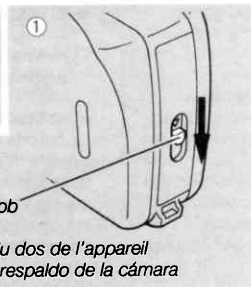
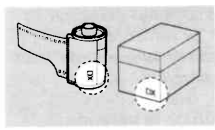


*Time to replace battery  
Zeit zum Batteriewechsel  
Pile à remplacer  
Es necesario sustituir la batería.*

- When removing the old battery from its compartment, replace it immediately with a new battery. If you wait to replace the battery after removing the old battery, the date and time setting will return to its default value and it will be necessary to set it again.
- Whenever removing the battery, be sure to check the time and date setting and reset as necessary.

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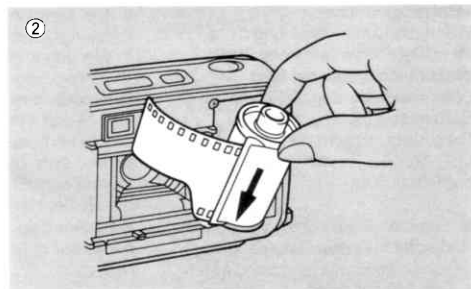
## 2. Loading the Film



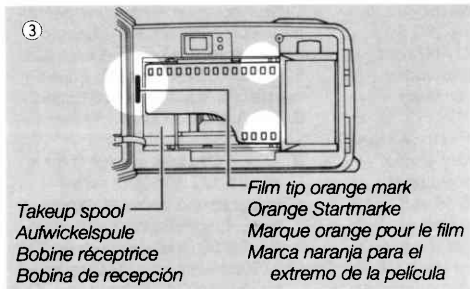
Camera back release knob  
*Rückwand-Entriegelung*  
*Bouton de verrouillage du dos de l'appareil*  
*Palanca de apertura del respaldo de la cámara*

Use only film identified with the DX code, and rated for speed in the range ISO 50-3200. ISO 400 film is particularly recommended for use when shooting flash photography.

- Correct exposure will not be produced when the film used has a speed rating outside the range ISO 50-3200. Film lower than ISO 50 or higher than ISO 3200, and film without the DX code will be automatically set for ISO 100.

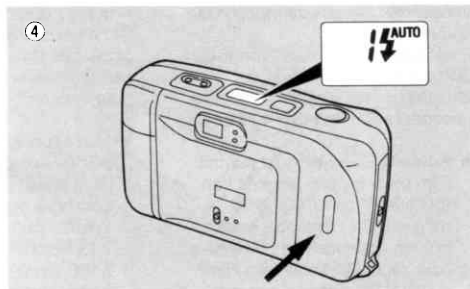
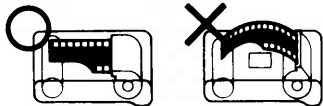


- ① **Press the camera back release knob down and open the camera back.**
  - ② **Insert film diagonally as shown and press in.**
- Always load and unload a film in subdued light.



- ③ **Pull out the film tip as far as the orange mark " — " and lay it across the end of the takeup spool.**

Do not allow the film to float up.

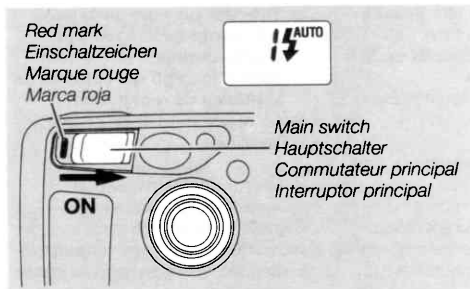


- ④ **Close the camera back securely.**

Close the camera back so that it locks with a "clicking" sound; the film will be automatically advanced to the starting position, and the number "1" will appear in the exposure counter.

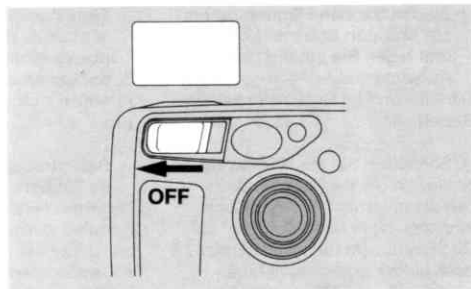
- The display panel will turn off automatically after approx. 8 sec.
- A flashing "0" displayed in the exposure counter means that the film has not been correctly loaded. Open the camera back and reload the film correctly.

### 3. Turn the Main Switch ON.



**Slide the main switch fully in the direction of the arrow so that the red “ / ” mark appears indicating the power is ON.**

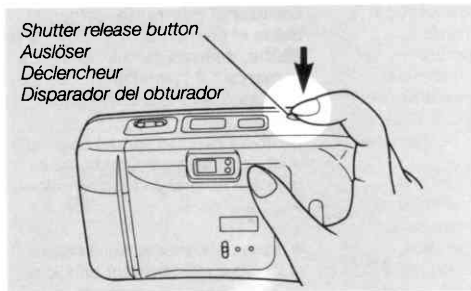
The lens cover will open and the lens will extend to its normal operating position.



- To turn camera power off, slide the main switch in the opposite direction so that the “ / ” mark disappears; the lens will retract and the lens cover will close.
- Do not slide the main switch while the lens or lens cover are operating.
- Whenever not using the camera, turn off the camera power to conserve the battery and prevent accidental exposures.



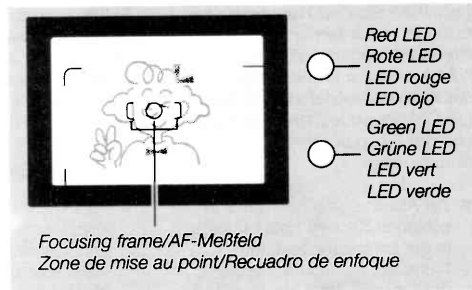
## 4. Taking Pictures



- 1 **Point the camera's focusing frame at the subject you wish to photograph, and depress the shutter release button half way.**

The camera will focus on the subject, and the green LED will light inside the viewfinder, indicating that focus and exposure have been set.

- 2 **Confirm that the green LED is lighted, then gently depress the shutter release button the rest of the way to take the picture.**



- Under dark conditions, the red LED will light, and the electronic flash will operate automatically to compensate the exposure.
- If the green LED is blinking, you are too close to the subject for proper focus. Increase the distance between camera and subject, then depress the shutter release button halfway again to confirm that the green LED lights steadily.
- The shutter will not operate when the green LED is blinking.

- The green LED may light steadily even when shooting distance is less than 0.25 meter, but the camera will not focus properly at that distance.
- When pressing the shutter release button to take a picture, the taking lens will simultaneously move forward or backwards to the set focus position. As a result, be careful not to touch or interfere with the lens when pressing the shutter release button.

#### Shooting Range (using normal color negative film)

Film Speed	ISO 100	ISO 400
Daylight	About 0.35m- ∞ (infinity)	About 0.35m- ∞ (infinity)
Flash	About 0.35-3m	About 0.35-6m

When shooting under "backlight" conditions (the sun or other bright light is behind the subject), the camera is designed to automatically compensate exposure or operate the electronic flash in order to prevent underexposure of the subject in the center of the viewfinder.

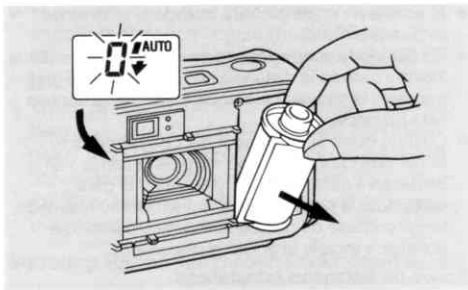
- Die grüne LED kann auch dann konstant leuchten, wenn der Aufnahmeabstand kürzer ist als 0,25 m, doch ist eine scharfe Aufnahme dann nicht möglich.
- Beim Druck auf den Auslöser bewegt sich das Objektiv während der automatischen Scharfeinstellung entsprechend vor oder zurück. Vermeiden Sie deshalb jede Berührung des Objektivs, um diese Bewegung nicht zu behindern.

#### Einstellbereich und Blitzreichweite (mit Farbnegativfilm)

Filmempfindlichkeit	ISO 100/21°	ISO 400/27°
Tageslicht	ca. 0,35 m - ∞ (unendlich)	ca. 0,35 m - ∞ (unendlich)
Blitz	ca. 0,35 - 3 m	ca. 0,35 - 6 m

Bei Gegenlichtaufnahmen nimmt die Kamera automatisch eine Belichtungskorrektur vor oder schaltet den Elektronenblitz zu, um eine Unterbelichtung des Objekts in Bildmitte zu verhindern.

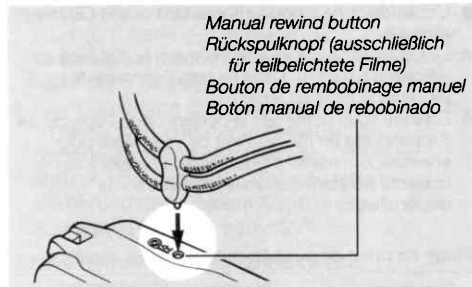
## 5. Removing the Film



**When the last frame on the roll has been exposed, the camera will automatically rewind the film.**

During rewinding, the display panel's exposure counter will decrement until it reaches "0". When rewinding is completed, the the motor will stop and exposure counter will display a blinking "0".

**Confirm that the exposure counter shows a blinking "0", then open the camera back and remove the film.**



- Have the film developed as soon as possible.
- If you wish to rewind the film before the entire roll is exposed, press the manual rewind button "0" with the tip of a small pointed object. (Use the point of the accessory strap adjuster, and do not use pins or other sharply pointed objects.)
- Other camera functions will not operate during film rewinding.
- If more than the standard number of frames are exposed, the last frames of the roll may be cut off at the time of developing.

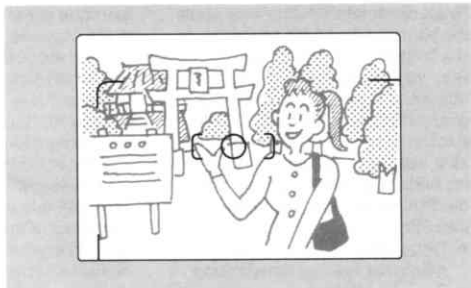
## *Advanced Techniques*

## *Funktionen für Fortgeschrittene*

## *Techniques spéciales*

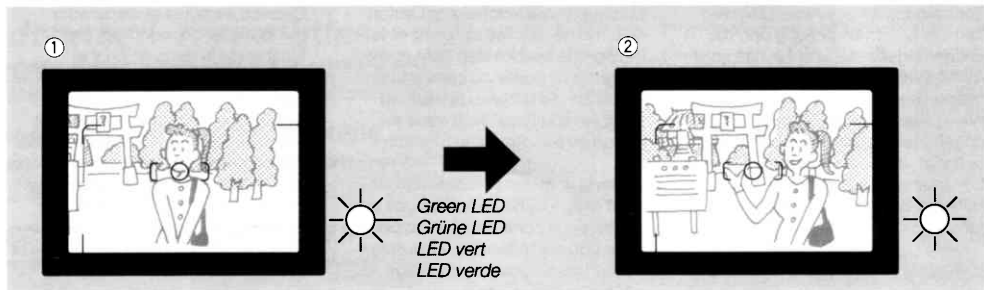
## *Técnicas avanzadas*

### 1. Focus Lock / AE Lock



When the shutter release button is depressed half way, the focus and exposure settings are locked on that part of the subject centered within the focusing frame (Focus lock / AE lock function).

As shown in the illustration, if the desired main subject is not in the center of the focusing frame, use the focus lock / AE lock function as follows:



- ① **Point the viewfinder toward the desired subject, confirming that the focusing frame is centered on that part of the scene you wish to be in focus, then depress the shutter release button half way.**

When photographing a person, be sure that the "O" mark is on the person. When the camera has set the focus, the green LED will light inside the viewfinder.

- ② **While holding the shutter release button depressed half way, move the camera to again compose the frame as you desire,**

**then without releasing the shutter button, depress it fully to take the picture.**

- So long as the shutter release button is held in the half-depressed position, the focus and AE lock will remain set; even if you change the direction of the camera, the camera's focus and exposure setting will remain set as before.
- The focus lock and AE lock function is released when you release the shutter release button from the half depressed position.

### <Difficult-to-Focus on Subjects>

Normal focusing may be difficult under the situations described below; in these cases, use the focus lock / AE lock function to lock focus on an object at the same distance from the camera as the subject; then compose the image frame as desired and take the picture:

- When sunlight or other bright lights are located in or around the focusing frame.
- When one part of the subject has intense highlights, such as light glinting off a car finish or the surface of water.
- Flames, smoke or other objects without physical substance.
- When photographing a person's hair or other objects which do not reflect well.
- Photographs taken through a glass window.
- Extremely small objects

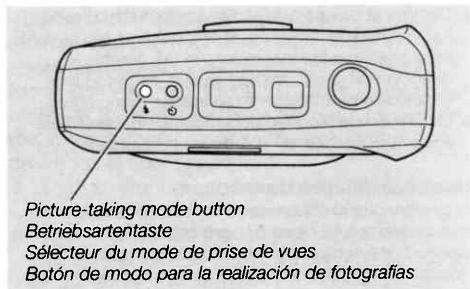


### <Autofokus-Grenzfälle>

In den nachstehend geschilderten Fällen kann automatische Scharfeinstellung Schwierigkeiten bereiten. Fokussieren Sie dann auf ein Ersatzobjekt in gleicher Entfernung, und verfahren Sie wie unter "Schärfenspeicherung" beschrieben.

- Bei starken Lichtquellen (z.B. Sonne) im Bild.
- Bei starken Reflexen im Bild (z.B. auf Autolack oder Wasserflächen).
- Bei nicht körperlichen Motiven (Flammen, Rauch usw.).
- Bei Haaren oder anderen nur schwach reflektierenden Objekten.
- Bei Aufnahmen durch Glas.
- Bei extrem kleinen Aufnahmegegenständen.

## 2. Using the Picture-taking Mode Button



Each time the picture-taking mode button is pressed, the picture-taking mode changes in the following sequence:

**Auto-flash mode** (default mode, selected whenever camera power is turned on) →

**Red-eye reduction auto-flash mode** → **Flash-IN mode** → **Flash-OFF mode** → **Landscape mode**.

The selected mode appears in the display panel. Set the picture-taking mode as desired.

- The flash unit begins recharging as soon as a flash exposure is taken. While the flash is

recharging, the red LED beside the viewfinder will blink; when the light goes out, recharging is completed. When the camera is set to one of the flash modes, the shutter will not operate while the flash is recharging.



*Blinking indicator*  
*(recharging)*  
*Blinkende LED*  
*(Aufladung)*  
*Indicateur clignotant*  
*(charge)*  
*Indicador intermitente*  
*(recarga)*

*Indicator goes out*  
*(recharging completed)*  
*LED erlischt*  
*(Blitz zündbereit)*  
*Indicateur éteint*  
*(flash prêt)*  
*El indicador se apaga*  
*(recarga finalizada)*

- When using one of the flash modes take a picture with vertical composition (holding the camera sideways), hold the camera so that the flash unit is towards the top. Also, take care not to obstruct the flash with your fingers or other objects.

### <1. Auto-flash Mode>

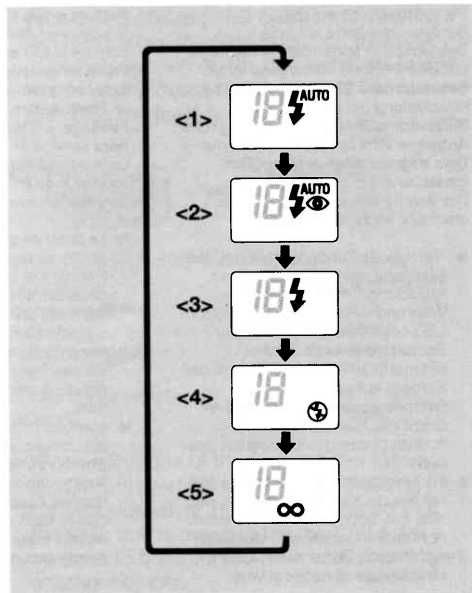
This mode is the default mode selected whenever camera power is first turned on.

When this mode is selected, the camera automatically switches to flash photography in dark situations, or in cases of extreme backlight.

- If the camera has activated the flash unit, the red LED will light inside the viewfinder when the shutter release button is depressed half way.

### <2. Red-eye Reduction Auto-flash Mode>

When this mode is selected, the camera automatically switches to red-eye reduction flash mode in dark situations. When a human subject is in a dark environment, and a flash photograph is taken of the subject, the pupils of the subject's eyes will occasionally appear red in the photograph ("red-eye effect"); the red-eye reduction exposure mode has been designed to reduce the "red-eye" effect. In this mode, the flash fires twice at approximately one-second intervals, but the shutter trips only during the second flash. As a result, be careful not to move the camera and ensure that the subject does not move after the first flash fire.





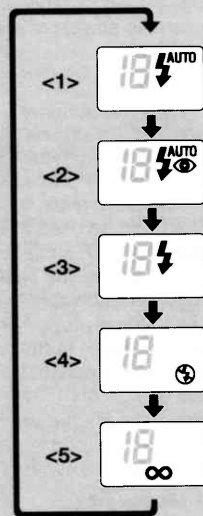
### <1. Blitzautomatik>

Nach dem Einschalten befindet sich die Kamera automatisch in dieser Betriebsart. In dieser Einstellung schaltet die Kamera den Blitz bei schwachem Licht oder starkem Gegenlicht automatisch zu.

- Zur Anzeige, daß die Kamera den Blitz zünden wird, leuchtet beim Antippen des Auslösers die rote LED im Sucher.

### <2. Blitzautomatik mit Verringerung roter Augen>

Auch hier wird der Blitz bei schwachem Licht automatisch gezündet. Der Unterschied zur normalen Blitzautomatik besteht darin, daß etwa eine Sekunde vor dem Hauptblitz ein Vorblitz abgegeben wird. Dieser führt zur Verengung der Pupillen der fotografierten Personen und verhindert, daß der Hauptblitz durch weit geöffnete Pupillen auf den Augenhintergrund trifft, der in den Aufnahmen durch seine rote Farbe störend hervortritt. Weisen Sie Ihr Modell darauf hin, daß zwei Blitze gezündet werden und es sich bis nach dem zweiten Blitz nicht bewegen sollte. Halten Sie die Kamera bis nach dem zweiten Blitz ruhig.



### <1. Flash automatique> ⚡<sup>AUTO</sup>

Cette fonction est sélectionnée automatiquement lorsque l'appareil est mis sous tension.

Lorsque la lumière est insuffisante, ou en cas de fort contre-jour, le flash est automatiquement utilisé.

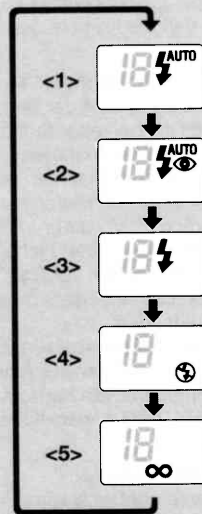
- Lorsque l'appareil a jugé nécessaire l'utilisation du flash, le LED rouge s'allume dans le viseur dès que le déclencheur est enfoncé à moitié.

### <2. Flash automatique avec pré-flashage> ⚡<sup>AUTO</sup> ⦿

Avec cette fonction, l'appareil déclenche automatiquement le pré-flashage lorsque la lumière est insuffisante. Dans un environnement sombre, les yeux des personnes photographiées au flash peuvent apparaître rouges, en provoquant la dilatation des pupilles. Cette fonction permet de réduire cet effet gênant.

Dans cette situation, le flash émet deux éclairs, à un intervalle de 1 seconde environ. Le déclenchement de l'obturateur n'intervient qu'au deuxième éclair. Pour obtenir de bons résultats, l'appareil et le sujet ne doivent pas bouger entre les deux éclairs.

- Avec la fonction flash automatique et pré-flashage, le LED rouge dans le viseur s'allume dès que le déclencheur est enfoncé à moitié.



### <1. Modo de flash automático>

Este modo es el ajuste de fábrica que se selecciona siempre que se conecta la alimentación de la cámara. Cuando este modo está seleccionado, la cámara se conecta automáticamente en el modo de fotografía con flash en situaciones de iluminación escasa, o en casos de contraluz extremo.

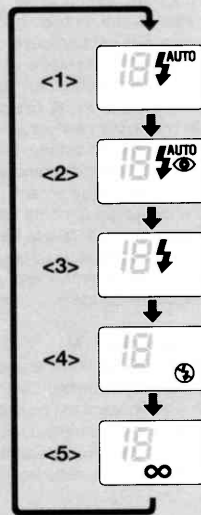
- Si la cámara ha activado la unidad de flash, el LED rojo se encenderá en el interior del visor al pulsar el disparador hasta mitad de recorrido.

### <2. Modo de flash automático con reducción del efecto ojos rojos>

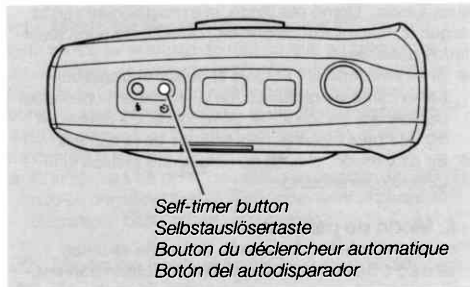
Cuando se selecciona este modo, la cámara se ajusta automáticamente en el modo de flash con reducción de ojos rojos en situaciones de iluminación escasa.

Cuando una persona se encuentra en un ambiente oscuro y se le fotografía con flash, las pupilas aparecen a veces rojas en la fotografía (efecto "ojos rojos"); el modo de exposición con reducción de ojos rojos ha sido diseñado para reducir este efecto.

En este modo, el flash se dispara dos veces, a intervalos de aproximadamente un segundo, pero el obturador únicamente se activa durante el segundo flash. Por lo tanto, asegúrese de no mover la cámara y advierta al sujeto que no debe moverse después del primer flash.



### 3. Using the Self-Timer

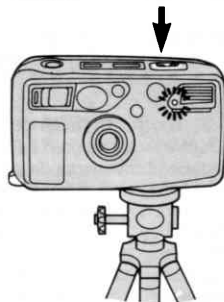


Use the self timer when you wish to include yourself in a photograph.

- ① **Mount the camera on a tripod and compose the desired scene in the viewfinder.**
- ② **With the focusing frame directed at the subject, press the self-timer button “☺”.**

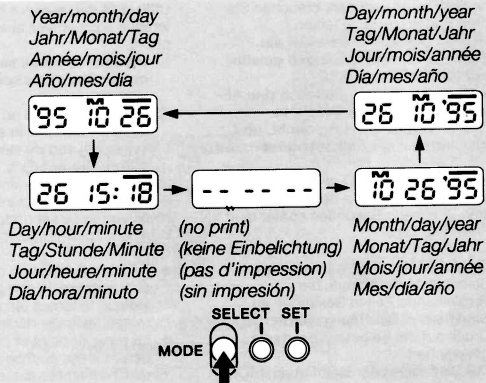
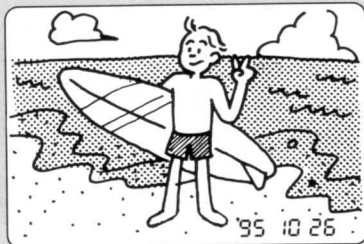
The self-timer LED on the front of the camera will begin blinking, and ten seconds later the shutter will automatically be triggered.

- During self-timer operation, the frame counter will change to display the remaining time (seconds) until shutter operation.



- Focus and exposure are set at the time the self-timer button is pressed.
- The self-timer function will not operate if the scene is out of focus, or if the flash is being recharged (during flash photography).
- To cancel self-timer operation mid-way through, press the self-timer button once again.
- Even while the self-timer function is operating, the shutter button will operate normally.

## 4. Printing the Date and Time



If your camera model has with a data back, you can include the date and time on your photographs.

First, set the camera to the correct current date and time.

- 1 Press the date mode button to select the desired data imprint.

Each time the button is pressed, the mode changes in the following order:

Year/month/day → Day/hour/minute →  
--- -- (no data imprint) → Month/day/year →  
Day/month/year.

Press the date mode button so that the desired date display appears.

**② Press the shutter release button to take the picture normally.**

- The “ — ” mark will blink for about 2 seconds in the display, indicating operation of the data print function.
- The “M” above certain numerals indicates “month”; the “M” itself is not printed on photographs.
- Data is printed on the lower right side of each photograph. The printed data may be hard to read if the lower right area of the scene is very bright or red in color. Also, data may not print well with some kinds of film.

**② Zur Aufnahme drücken Sie den Auslöser wie gewohnt.**

- Im LCD-Monitor blinkt “ — ” zwei Sekunden lang zur Anzeige der Einbelichtungsfunktion.
- Das “M” in der Anzeige steht für “Monat”; es wird nicht mit einbelichtet.
- Die Einbelichtung erfolgt in der rechten unteren Bildecke. Vor einem sehr hellen oder roten Hintergrund kann die Einbelichtung schwer lesbar sein. Auch bei gewissen Filmtypen kann die Lesbarkeit leiden.

### <Setting the Date and Time>

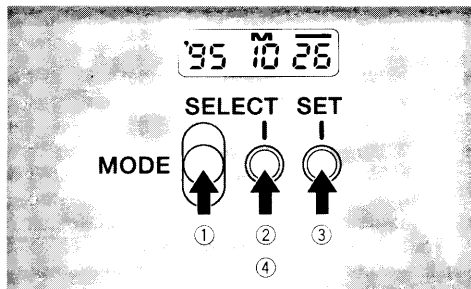
Follow these procedures to set the correct date and time.

- ① Press the date mode button to select the desired date display.
- ② Press the date select button so that the digit you wish to set blinkings.
- ③ Press the date set button to set the selected data item.

(The time mode's flashing colon ":" indicates seconds adjustment. The seconds counter begins from zero seconds when the set button is pressed, thus allowing optimum accuracy when setting the clock.)

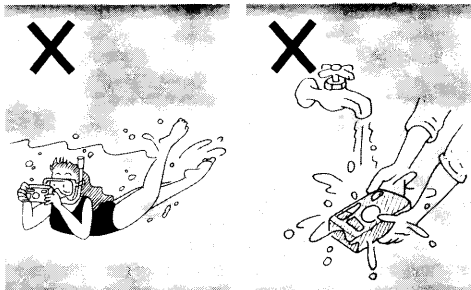
- ④ When you have completed setting the date and time, press the date select button until the numerals stop blinking.

- The data back function operates from the same battery power supply as the camera main unit. Be sure to reset the date and time after replacing the battery.



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## Weather Proof



This camera has been designed to be weather proof under normal conditions of everyday use. As a result, the camera can be used on rainy days, at the beach, or on ski slopes without worry of water leakage. The camera has not been designed, however, for use underwater, and should never be submerged in water, or washed by being placed under a faucet.

- The camera's internal parts are not meant to be water resistant. As a result, when changing battery and film, do not allow water, dirt, or sand to enter the camera.
- The camera's construction may allow water droplets to enter the lens cover, but the water is not harmful, since the camera's construction prevents it from entering the internal mechanism.
- Water should not be allowed to remain on the body or lens, since it may adversely affect your photographs. If water gets on the lens, wipe it off gently with a soft cloth or lens tissue.
- When opening the camera back or battery compartment, do not allow water or sand to contact the rubber packing. If the packing become wet or soiled, clean them carefully, taking care not to damage them. If one of the rubber packing becomes damaged, consult your nearest service dealer.
- If the camera becomes soiled with sand or salt water, wipe it gently with a soft cloth dipped in fresh water. Then remove any water droplets by wiping with a soft dry cloth.



## Camera Care

- Fingerprints and dirt on the lens and other areas can affect the accuracy of the camera. If the camera is soiled, wipe off gently clean the surfaces with a soft lens cleaning tissue moistened with lens-cleaning solution. Remove dust off by using with a blower brush.
- Use a soft cloth to clean the camera body. Never use organic solvents such as thinner or benzene.
- Wipe the camera clean after use at the seaside or in dusty areas.  
Salt air will have a corrosive effect on the camera; sand and dust will be harmful to the camera mechanism.
- The lens may cloud if the camera is suddenly brought into a warm room from cold outdoor temperatures. Although this cloud will eventually disappear, avoid as much as possible exposing the equipment to sudden temperature changes.
- This camera includes dangerous high voltage circuits. In case of malfunction, never attempt to disassemble the camera by yourself.
- When using the camera for important occasions such as trips abroad or weddings, ensure operation beforehand or take test photographs to confirm proper operation. We also suggest bringing along a spare battery.

- This camera is a precision instrument. Do not drop it or expose it to intense shock.
- When using the camera in cold areas, store it inside clothing when not in use, remove it only to take pictures. Battery performance will be temporarily reduced when temperatures drop to near 0 degrees Centigrade to the point that the camera will not operate. The function of battery exposed to low temperature will be restored when the battery is returned to normal temperature.

### When the camera does not function

A safety circuitry has been installed in this camera so as to protect the internal microcomputer. Due to the function of the safety circuitry, the camera very rarely come to function. In this case, turn off the main switch and remove the battery. Then reinsert the battery and press the shutter release button.

### <Camera Storage>

- Keep the camera away from heat moisture and dust and store it in an airy place. Do not store it in a wardrobe drawer containing moth balls or in a laboratory handling chemicals.
- Do not leave the camera and film for a long time in a hot place (on an ocean beach in summer, in a closed car under direct sunlight, etc.) as the camera, film and battery may be adversely affected.

### <Battery Precautions>

- Battery performance will be reduced temporarily in low temperatures. If you are shooting in cold weather, keep the camera warm inside your jacket and take it out only when needed. Battery performance reduced by cold temperature will return to normal under normal temperature conditions.
- Poor contact may result if battery poles are soiled with sweat or grease. Wipe both poles clean before loading the battery.
- Bring spare battery with you, if you are going on a long trip.
- Do not throw used battery into a fire and do not charge, short, disassemble or heat them because it is dangerous.
- The camera will not function if the battery is not properly loaded.

### Kamerapflege

- Fingerabdrücke und Schmutz auf dem Objektiv oder dem Sucher der Kamera können die Funktion beeinträchtigen. Entfernen Sie Verschmutzungen vorsichtig mit einem Linsenreinigungstuch. Für Staub empfiehlt sich ein Puste-Pinsel.
- Reinigen Sie das Kameragehäuse mit einem weichen Tuch.  
Benutzen Sie niemals organische Lösungsmittel wie Verdünnung oder Benzin.
- Säubern Sie die Kamera gründlich nach einem Aufenthalt in feuchter oder staubiger Umgebung, z.B. am Meer.  
Feuchte und salzige Luft kann Korrosion bewirken, Sand und Staub die Funktion mechanischer Teile stören.
- Wenn die Kamera aus der Kälte in warme Umgebung gelangt, kann das Objektiv beschlagen. Diese Erscheinung verschwindet nach kurzer Zeit von selbst, doch vermeiden Sie abrupte Temperaturwechsel möglichst.
- Die Kamera enthält elektrische Schaltungen mit hoher Spannung. Versuchen Sie wegen der damit verbundenen Gefahr nie, die Kamera selbst zu öffnen.

## Specifications

**Type:** 35mm lens shutter auto focus AE camera with built-in flash.

**Picture size:** 24x36mm

**Lens:** Carl Zeiss Tessar T\* 35mm F3.5 (4 elements in 3 groups)

**Shutter:** Programmed electronic shutter

**Exposure control:** Programmed AE

**Metering range:** Auto-flash mode and red-eye reduction auto-flash mode:

EV 9.5 (F3.5, 1/60 sec) - EV 17 (F15.5, 1/700 sec);

Flash-IN mode, Flash-OFF mode, Landscape mode:

EV 3.5 (F3.5, 1 second) - EV 17 (F15.5, 1/700 sec).

**Metering system:** External metering system with dual SPD element and automatic backlight compensation.

**Film speed:** Automatic setting (DX method), Linked in range ISO 50 - ISO 3200 (for each step), Automatically set to ISO 100 with DX films outside ISO 50-3200 range, and non-DX films.

**Focusing system:** Infrared active multi-autofocus system (with focus lock mechanism)

**Shooting distance:** About 0.35 m -  $\infty$

**Viewfinder:** Real-image viewfinder, with Super scope.

**Viewfinder display:** In viewfinder focusing frame, picture area frame, close-range picture area frame.

**Eyepiece indicators:** Focusing indicator (green LED), flash /camera shake indicator (red LED)

**Super scope:** Center set up marks

**Display panel:** Exposure counter/self-timer remaining time display; picture-taking mode marks (auto-flash mode, with red-eye reduction auto-flash mode; Flash-IN mode; Flash-OFF mode, Landscape mode); battery warning mark.

**Film loading:** Automatic loading mechanism (with automatic winding to frame "1" position).

**Film advance:** Auto-winding mechanism.

**Film rewinding:** Auto-return/auto-stop mechanism; also mid-roll rewinding possible.

**Exposure counter:** Incrementing type LCD with automatic reset.

**Self-timer:** Electronic timer function (ten seconds), with flashing LED indicator, and cancel function.

**Flash:** Built-in, flashmatic type.

Recharging time approximately 3.5 seconds (with new battery at room temperature, in accordance with our testing standards).

**Shooting range:** About 0.35 m - 3 m (ISO 100, color negative film), About 0.35 m - 6 m (ISO 400, color negative film)

**Auto dating unit (for models with data back only):** LCD display with built-in quartz clock and automatic calendar.

**Dating modes:** Year/Month/Day; Day/Hour/Minute; No-Display; Month/Day/Year; Day/Month/Year

**Battery:** One 3V Lithium battery (type CR123A or DL123A).

**Battery capacity:** In the case of 50% flash photography, about 20 rolls of 24 frame film, when a new battery is used under room temperature conditions (testing in accordance with our testing standards).

**Other:** Weather proof construction

**Dimensions and Weight:** 118 (W) x 64.5 (H) x 39.5 (D) mm, 190 g (without data back and battery).

118 (W) x 64.5 (H) x 42 (D) mm, 200 g (with data back, and without battery).

*Specifications and design are subject to change without notice.*

## Technische Daten

**Kameratyp:** Kleinbild-Autofokus-Kamera mit Zentralverschluss, Belichtungsautomatik und eingebautem Blitzgerät.

**Bildformat:** 24 mm x 36 mm

**Objektiv:** Zeiss Tessar T\* 1:3,5/35 mm (vier Linsen in drei Gliedern)

**Verschluß:** Elektronischer Programmverschluß

**Belichtungsregelung:** Programmautomatik

**Arbeitsbereich:** Blitzautomatik und Blitzautomatik mit Verringerung roter Augen: LW 9,5 (Blende 3,5 bei 1/60 s) - LW 17 (Blende 15,5 bei 1/700 s); Blitz bei jeder Aufnahme, Blitz abgeschaltet, Unendlich-Einstellung: LW 3,5 (Blende 3,5 bei 1 s) - LW 17 (Blende 15,5 bei 1/700 s)

**Belichtungsmessung:** Externes Meßsystem mit doppelter Silicium-Fotodiode und automatischer Gegenlichtkorrektur

**Filmempfindlichkeit:** Automatische Einstellung nach DX-Kode Einstellbereich ISO 50/18° - ISO 3200/36° (ganzstufig), Automatische Einstellung von ISO 100/21° bei DX-kodierten Filmen außerhalb des Einstellbereichs bzw. bei nicht DX-kodiertem Material.

**Scharfeinstellung:** Mit aktivem Infrarot-Autofokus-System (mit Schärfenspeicherung)

**Einstellbereich:** Ca. 0,35 m - ∞

**Sucher:** Realbildsucher und Super-Aufsichtssucher

- When the red-eye reduction flash mode has been selected, the red LED will light in the viewfinder when the shutter release button is depressed half way.

### **<3. Flash-IN Mode> ⚡**

In this mode, the flash operates with every photograph, regardless of the ambient lighting conditions. This mode is convenient for compensating exposure when photographing subjects beside bright windows, to avoid underexposing the subject. It can also be used at evening or night to photograph human subjects against a background of night lights. The lights and scenery in the background will still appear, while the human subject will be properly exposed.

- When the shutter release button is depressed half way, the red LED appears to indicate the flash will operate.
- In dark locations, the shutter will be set to a slow speed. Use of a tripod is recommended under such conditions to avoid camera shake.

### **<4. Flash-OFF Mode> ☹**

Select this mode when you wish to capture sunsets and indoor scenes with ambient lighting

only. In this mode, the electronic flash is turned off, regardless of lighting conditions. As a result, exposure is set in accordance with the available light on the subject, producing natural results.

- If the red LED lights when the shutter release button is depressed half way, a slow shutter speed will be selected; use of a tripod is recommended to avoid camera shake.
- In this mode, the flash will not operate even if the red LED lights.

### **<5. Landscape Mode> ∞**

Select this mode when shooting distant scenes, or photographing through a glass window. Sharper pictures will be obtained.

- If the red LED lights when the shutter release button is depressed half way, a slow shutter speed will be selected; use of a tripod is recommended to avoid camera shake.
- In this mode, the flash will not operate, even if the red LED lights.
- After each photography taken with this mode, the camera automatically returns to the default "auto-flash mode." To use the landscape mode again, press the picture-taking mode button and select the landscape mode.