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Introduction

Thank you for your purchase of this camera. To use your camera correctly, please read this manual

carefully before using it.

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Introduction

1-1 Precautions

△CAUTION

The symbol indicates the possible risk of personal injury to the product's user and/or others, and the possible occurrence of physical damages if the product is not used properly.

∆WARNING

The symbol indicates the possibility of fatal accidents and /or serious injury if the product is not used properly.

< Camera Care >

- This camera is not designed to be waterproof, and cannot be used in the rain or under water.
 If the camera should inadvertently be exposed to water, it should be taken quickly to our service center for inspection.
- 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-cleaningsolution. Remove dust off with a blow brush.
- Use a soft cloth to clean the camera body. Never use organic solvents such as thinner or benzene.

- Do not use excessive force on the lens barrel. The camera might be damaged.
- If the camera has been dropped, take it to our service center. There might be damage which is not visible.

A CAUTION

- Clean the unit well when using it at beach or in some other dusty environments. A sea breeze/ briny air may corrode metals, causingshort circuit, and may result in smoke or fire. In addition, dust causes malfunction to the internal mechanism.
- The lens may become misty when suddenly brought into a warm room from a cold environment.
 The mistwill clear in a short while. However, if such incidents occur repeatedly, water drops may be left inside the body or the lens. Water drops may cause short circuit, and may result in smoke or fire. Avoid sudden changes of temperature as much as possible.
- Do not leave the unit under the sunlight: it may cause damages and/or fire. Keep the lenscover
 on and avoid direct sunlight when storing the unit.
- The Camera is a delicate electronic device: avoid dropping or shocks that may cause smoke, fire, or damages to its structure due to short circuit of the unit.
- Make sure to test shoot and/or double check the operational functions prior to the important events, such as wedding, overseas travelling, and so on. Take some extra batteries along with you, too.

A WARNING

- If any defect is found with the unit while using it (e.g. external body of the unit becomes
 extremely hot, smoke comes out, or it smells of burning, etc.), immediately stop using it, switch
 off the power, and remove the batteries: it may cause a fire hazard or burn. (Be careful not to
 get burned when taking the batteries out.)
- Do not use the unit in a very humid environment, or places where it may get wet. Do not operate
 it with wet hands: the unit may bedamaged due to corrosion, fire, smoke overheating, short
 circuit,or electric shocks. (Special caution is required when operating in rain, snowing period,
 at the beach, and near water.)
- Do not use the unit in the environment in which inflammable gas may occur.
- Do not decompose, remodel, or reassemble the unit: it may cause electric shocks due to the high voltage.
- A high voltage circuit is built into the product; therefore, NEVER touch the internal parts of the
 unit when it is damaged due to a falland so forth; there is a risk of causing electric shocks.
 (the unit witha built-in flash)
- When taking pictures with flash, Do not use the flash-light close to people's eyes (specially
 at infant's eyes): emitting the flash-lightclose to eyes may carry a risk of visual problem.

AWARNING

- Do not look at the sun or other strong light sources directly through the camera finder: there
 is a risk of visual problem.
- Do not take pictures whilst in motion: taking pictures while moving, especially looking into the finder while moving, may result in an accident.
- Be sure to pay attention to surroundings as well, instead of only looking at the objects, while taking pictures.
- Keep the product out of the reach of children. Be sure to pay careful attention, and do not leave the unit carelessly while using it around infants and children: infants and children do not understand safety warning and precaution. Moreover, there are risks of accidents listedas follows:
 - Getting injured by dropping or knocking off the unit.
 - Getting choked by accidentally tying the strap around the neck.
 - Getting their fingers caught in as the motor turns.
 - Getting fingers caught in the film guide as the lens retracts.
- < Storage of the Camera >
- 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.

 If you are unlikely to use the camera for long period, remove the batteries to prevent damage due to battery leakage.

△ CAUTION

 Store the unit in a well ventilated place. Avoid humid or dusty environments or places with chemicals (e.g.laboratory or drawer with moth repellents): circuit break down or short circuiting may occur, resulting in smoke or fire.

< If the camera fails to operate >

The camera may fall to operate if exposed to very strong electromagnetic waves or static electricity. In such cases, remove the batteries and reinsert them again to reset the camera's circuits. Be sure to reset time and date and any recording data.

- < Precautions for Handling Batteries >
- 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.

△ CAUTION

Do not touch the battery with an electric conductive object (e.g. metallic tweezers), it will not
only wear the battery out quickerbut it is also dangerous, causing a short circuit.

△WARNING

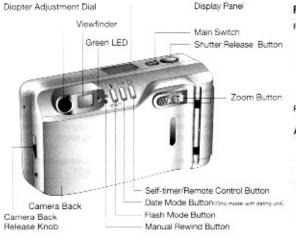
- NEVER DO what is listed below: damaging the batteries will cause personal injury, fire, or damage to surroundings.
- ① Do not use batteries other than the ones specified to this unit.
- ② Do not insert the battery with incorrect matching of the polarities (+ and -).
- 3 Never throw the battery into fire, or recharge short disassemble, or heat up the battery.
- The 3V lithium (CR123A/DL123A) battery can not be recharged.
- When disposing of the battery, stick a tape or something on the terminals for insulation purpose. Contacting with metals after disposing of the battery may cause explosion or fire.
- Keep the battery out of the reach of children. In case a child swallows a battery, consult
 a doctor immediately: a broken battery may leak its fluid and harm the stomach and
 intestines.

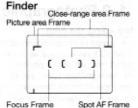
1-2 Names of Parts



- (f) Self-timer/Remote Control Mark
- ② Date*/Film Counter
 - 3 Date Mark*
- Battery Warning Mark
- Spot AF Mark
 Flash Mode Mark
 - Auto-Flash Mode \$ 400 "
 Red-eye Reduction Mode \$ 500 "
 Flash-off Mode \$ 0 "
 - Night Portrait Mode" \$ 35" 2." Fill-in Flash Mode" \$ "

····Only model with dating unit





Attaching the Strap



1-3 Photographic Concepts

Regarding the Film

Film speed is the sensitivity of film to light, which is mentioned as ISO 100 or 400, and so forth. The larger ISO value indicates the higher sensitivity, and such films can be used in poor ambient lighting conditions, while the photos of such films have coarser grain and therefore poorer image quality. For flash photography, use ISO 400 film which increases possible distance for flash photography. (See Page 12 for the details about the possible distance for photography.)

Possible Distance for Photography

Possible distance for photography is the distance between the camera and the subject. (Strictly speaking, the distance between the subject and the film plane.) Possible distance for photography of this camera is from 50cm to ∞ (infinity), but the following shooting situations may limit the shooting range.

<Close-up Photography>

When the distance from the camera to the subject is shorter than 1.7m, this is called close-up photography.

The camera can shoot as close as 50cm at wide-angle, and 80cm at telephoto. With this type of camera, there is a difference(Parallax) between what you see in the viewfinder and the actual picture when taking close-up photography. In order to avoid this, compose the subject within the close-up Photography.) arme. (See Page 18 for the details about the Close-up Photography.)



<Flash Photography>

There is a distance limit when using the flash. This distance varies depending on film ISO and zooming.

Film Speed	Wide-Angle	Telephoto
ISO100	0.5m-3.0m	0.8m-1.8m
ISO400	0.5m-6.0m	0.8m-3.6m

Basic Operations

2-1 Load the battery

 Open the battery compartment cover with coin or something.



Insert a new battery (CR123A) or DL123A) as shown, and close the cover firmly.



<Battery replacement> When the " a" mark is displ -ayed on the display panel, it is time to replace the battery. Switch off the camera power and replace the battery.



Blinking: The camera should be changed no longer operates as soon as possible.

Key Point

 Reset the date and time after loading a new battery





2-2 Load the film

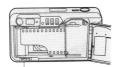
- ① Open the Camera Back by pushing down the Camera Back Release Knob.
 - Please avoid changing the film in bright light.



② Insert the film cassette slantwise with its bottom end first.



② Pull the tip of the film up to the"I◆FILM"mark and place it on the top of the spool. Be careful at this time that the film does not float up from the spool.



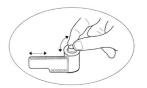
" I+FILM " mark



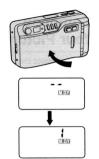


Key Point

 If the film leader is too long, please rewind the film as illustrated.



④ Close the Camera Back securely. As soon as the Camera Back is closed, the film will automatically advance and stop when the Exposure Counter shows "1".

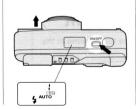




 If the counter does not show "1",the film is not advancing properly. Open the Camera Back and load the film correctly again.

2-3 Press the main switch to turn the camera power "ON"

When you press the main switch, the camera power comes "ON" and you are now ready to take pictures.

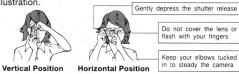


- When you press the main switch again, the lens retracts, the lens barrier closes, and the camera power goes off.
- Make it a rule to switch off the power when you do not use the camera soon. This prevents accidental shooting.

<Automatic power-off>
To conserve the battery power, if
the camera is left unused for about 2 minutes with the power-on,
the lens retracts, the lens barrier
closes, and the camera power
goes off.

2-4 Hold the Camera

Basically, hold the camera with both hands. Find the camera holding techniques that suit you best referringto the following illustration



2-5 Diopter Adjustment

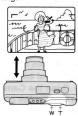
Turn the diopter adjustment dial until the focus frame in the viewfinder becomes clear



2-6 Compose Your Picture

While watching your subject through the viewfinder, compose your picture by pressing the zoom button either on the side "W" (wide angle) or "T" (telephoto).

 The shutter will not trip while the lens is zooming.



2-7 Press the Shutter Button

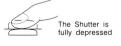
The shutter button has two positions.

① Aim the forcus frame at the subject and press shutter release button halfway.This is called "Half shutter".



Half shutter

After confirming that the green LED is illuminated, press the shutter button the rest of the way.



Lighted It is in focus. (the shutter can trip.)

It is out of focus.
/ Flash is charging. (the shutter can not trip.)



AF assist flash

<Green LED >

When the subject is dimly lighted or its contrast is low, The flash may partially emit prior to the stown closing for auto focus in low light conditions. Please do not mistake this for the flash when the shutter will actually release.





TELE



2-8 Remove the film

As soon as the last frame is exposed, the camera will automatically start to wind the film back into the cassette. While it is rewinding, the Exposure Counter counts down. On winding it back completely, it will stop and the Exposure Counter will show "0", and start blinking. After making sure the Exposure Counter is blinking at "0", open the Camera Back and take out the film.

- While the film is rewinding, other camera features does not function.
- If you obtain more exposures than stated on the film pack, the last exposure may be cut in the process of developing.

<To rewind the film part way through a roll>

If you wish to remove a film canister partway through an exposed roll, press the button in the illustration.





Manual Rewind Button

3 Photography Tips

3-1 Use Focus Lock

When you take a snap shot, in most cases the subject you want to focus might be in the center of the photograph. With Focus Lock, you can take photographs with the subjects off the center.

when you take a photograph like this.



① Aim the focus frame at the subject and press the shutter release button halfway. This is called "Focus Lock."



Move the camera to recompose the picture without lifting your finger off the halfway position, then take the picture by depressing the shutter release button all the way.





 The camera features a multi-auto focus. Even if the subject is not centered, as long as they are in the focus frame, they will be in focus.

3-2 Close-up Photography

When the distance between the subject and camera is less than 1.7m, this is 'Close-up Photography'. (You can shoot as close as 50cm at wide angle and 80cm at telephoto.) When you look at the viewfinder, you cansee the 'Close-range area frame'. Use this frame to compose your picture.

Focus Frame Close-range area Frame

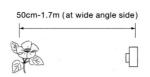


Spot AF Frame Picture area Frame

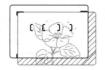
 Taking panorama photos with a distance to the subject of less than 1.7 meters is not recommended.

① Look at the viewfinder and compose the picture in the picture area frame. Then press the shutter release button half-way down to lock the focus





② Move the camera slightly left-upper in order to shift the composition which has been set ① to the Closerange area Frame. And press the shutter release button all the way.



3-3 Use Tripod

When you take a picture during an evening or night scene making use of natural light without flash, or for indoor picture making use of natural light, the shutter speed will slow down. Use a tripod in this case in order to prevent camera shake.



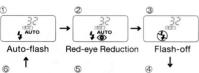
If a tripod is necessary in any explanation in this instruction manual, "Tripod" mark is printed on the manual.

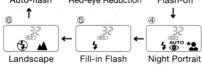
Useful Features

Take a picture using various built-in features.

4-1 Use the Flash Modes







Auto-flash Mode

4 AUTO

When the camera power is turned on, the camera is set to this mode. In dim light, the flash automatically fires to take pictures.

Red-eye Reduction Auto-flash Mode

4 AUTO

If a person or pet are photographed in dim light using a flash, the pupils of their eyes may turn out red in the picture (red-eye effect.) This mode is useful for reducing the red-eye effect.

- 1) Press " laure", and displays " 4 auto ".
- ② Press the shutter release button.



Key Point

- In this mode, the flash fires twice. After the first flash fires, the shutter trips as the second flash fires. Please do not move the camera before the second flash, and also be sure your subjects do not move.
- The conditions where the flash will go off are the same as the auto flash mode.

Flash-off Mode





If you want to take pictures without flash such as twilight scenes or indoor sites such as museums, set the camera to this mode.

- 1 Press " i and displays " 4 auto ".
- ② Press the Shutter release button.
- Shutter speed will be slower in low light conditions. Use a tripod to prevent camera shake.



Night Portrait Mode ----- ♣ 🎳

Use this mode for shooting outdoors in evening, or a night scene if you want to have both the subject and the background beautifully exposed.

- ① Press " j " to set to night portrait mode.
- 2 Press the shutter button.



Key Point

• The shutter speed for night portrait mode is 1 second, which is faster than slowest 2 seconds. This is for avoiding possible camera shake when the camera is hand held during slow shutter. To reduce camera shake when the camera is hand held, hold the camera firmly with both hands. To eliminate camera movement, use of a tripod is strongly recommended

Fill-in Flash Mode 4

This mode gives a better balanced lighting of the person as well as the background in outdoor photography, portrait pictures with shadows of the subjects, in bright sunlight or backlight, or indoor photography with bright, fluorecent light.

- ① Press " "and displays
- 2 Press the shutter release button





Landscape Mode Tripod





Use this mode when you shoot far away landscape with sharper image.

- ① Press " " and displays the landscape mode.
- 2 Press the shutter release button.
- In this mode, the flash will not fire.



• In this mode, the lens is focused at infinity regardless of the proximity of any foreground subjects.

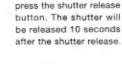


4-2 Self-timer / Remote Control Photography

Use this mode if you want to put yourself into the picture.

Self-timer Photography

- ① Press the " " 0 " is displayed on the display panel.
- Use a tripod to hold the camera securely.



② Aim at your subject, and



Self-timer/Remote Control Button



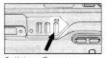
- Focus and exposure will be locked during self-timer countdown.
- · To cancel the self-timer after it has been activated, press the button again.
- · After the shutter is released in self timer mode, the camera will automatically revert to normal photography mode and turn off the self timer mode
- Note that when it is impossible for the autofocus mechanism to operate in spite of the auto-focus assisting flash function, the selftimer indicator will not blink and exposure will not take place.

Remote Control Photography

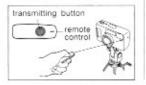
If the Remote Control is not included with your camera, you'll have to buy it separately.

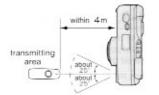
- Press the " ☐ " button." is displayed on the display panel.
- Use a tripod to hold the camera securely.
- 2 Compose the image and press the transmitting button on the remote control. The lens will focus and the self-timer indicator on the front of the camera will blink. The shutter will be released 2

seconds later.



Self-timer/Remote Control Button





- If the remote control is not operated for about 5 minutes, the camera power goes off.
- In rare cases of strong backlighting or under inverter type fluorescent lighting, the remote control function may not operate.
- In order to prevent problems with subsequent pictures, please turn off the remote control/self timer mode after you are finished with them.

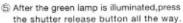
4-3 Spot AF mode

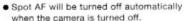
Spot AF mode is useful when you want to specifically focus on a portion of your subject. Simply center the Spot AF frame on the subject and press the shutter button.

- 1 Turn the camera off
- 2 Press the main switch until "(S)" is displayed on the display panel (about 2 seconds).



- 3 The camera turns on and the focus mode changes to Spot AF.
- (4) Simply center the subject in the Spot AF frame and press the shutter release button halfway.









4-4 Panorama Photography

Slide the Panorama Mask lever to * P *

The panorama Mask lever is on the bottom side of the camera.)



The viewfinder will change to panorama format as illustrated. Please frame your subject in the viewfinder and take your photograph.



Panorama Format

 You can not use the auto date function with panorama photography.

Key Point

 Please make a distance of 1.7 meters at least for panorama photography.
 For distances less than 1.7 meters, the film image may differ from the viewfinder image.

About Panorama Photography

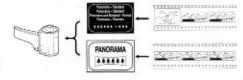
- With panorama photography, one standard frame of film has the top and bottom trimmed to leave an image 13x36mm in size which can be printed up to 89x256mm in size.
- To take better panorama photograph, use zoom out to wide angle or step back and try to include a wide field in your picture.

▶ About Panorama Prints

When processing your panorama photograhs, be sure to label your film canister according to the following table before sending it in to be processed.

Film Format	Label
Panorama and standard photography	Panorama+ Standard
Panorama photography only	PANORAMA

 Processing of panorama prints typically takes longer than standard photos. The cost may also be different.
 Please consult your processor for the details.



5 Imprinting the Date and Time (Only model with dating unit)

5-1 Setting the Date and Time

Set the Date Mode with the main switch off.

- ① Press " T and shows " Year/Month/Day".
- ② Press " \(\int_{\text{lim}} \)" and the number which you want to set blinks.





3 Press the Zoom Button to set the number.

A Repeat the operation of ② and ③ and set all numbers.



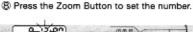


⑤ When you finish to set up to 'Day', press ⑥ Press ⁻☐ " and shows 'Day/Hour/Minute'.
* ☐ " again to finish.



Press * \(\hat{1}\) and the number which you want to set blinks.

8 0:00





- Set the number of "Min-ute" by operation of and a.
- 8 (2:35)



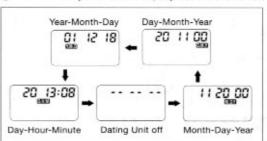
to finish the time setting.

- The blinking display will release and the LCD will return to normal after 8 seconds.
- If you obtain more exposures than stated on the film pack, the last exposure may not contain a complete image.

5-2 Changing the Order of the Date

You can print the date or time on your photographs, Set the date mode with main power switch off.

- ① Each time the Date Mode Button is pressed, the date mode changes as illustrated. Set the desired mode.
- 2 With the main power switch on, depress the shutter release button to take pictures.



- Date or Time is displayed only during Date Mode Button is pressed with main power switch on.
- Date or Time is displayed for 8 seconds when the Date Mode Button is pressed with main power switch off.

6

Troubleshooting

Symptom	Cause	Action	Page
The shutter can	The camera power is off.	Turn the camera power on.	78
not be released.	The battery warning is blinking.	Replace with fresh battery.	76
	The battery is incorrectly loaded.	Road the battery correctly.	76
	The camera is set to remote control / self timer mode.	Reset to another mode.	87
No indication in	The camera power is off.	Turn the camera power on.	78
the display panel.	The battery warning is blinking.	Replace with fresh battery.	76
panel.	The battery is incorrectly loaded.	Insert the battery correctly.	76
The Green LED is blinking.	The camera is too close to the subject.	Follow the minimum distan- ce requirements.	82
	The flash is charging.	Wait till the Green LED goes out.	80
The flash emits when the shu- tter is pressed halfway.	In low light conditions without enough ambient light to focus, normally the flash will emit for assisting AF on pressing the shutter halfway.	Push the shutter button all the way to release the shutter.	80
The flash does	The camera is set to flash-off mode.	Reset to another mode.	85
not fire.	The camera is set to landscape mode.	Reset to another mode.	86

7 Specifications

Туре		ly automatic 35mm lens shutter camera h builtin zoom lens	Focusing	/Spot	e type, 5 point Multi Auto Focus AF
Film Used	135	5 Film	Viewfinder	Real-in	nage zoom viewfinder
Picture size	24	mm x 36mm/Panorama 13mm x 36mm	Magnification	0.32~1	X80.
Lens	KYOCERA ZOOM LENS 28mm F6.0 -110mm F13.1(8 elements in 6 groups).		Field of view	over 8	0%
			Diopter Adjust	ment	Correctable range -3-+1
Shutter		grammed electronic shutter, 2-1/300 seco- s.(At Night portrait mode: 1-1/300 seconds.)	Display in viewinider Foods frame, Spot AF II		Focus frame, Spot AF frame, Picture area frame, close-range
Focusing range		ge 28mm0.5m/1.6ft ∞,	area frame, Pa		area frame, Panorama Format
	110mm······0.8m/2.6ft ∞.		Display beside		Focusing/Flash indicator
Exposure cor	itrol	Programmed automatic exposure.	Viewfinder eyepiece (green LED).		(green LED).
Exposure ra	nge	EV5 - EV16 (ISO 100)	Display panel		re counter/self-timer count down,
Metering Method External				time,date mark,Flash mode marks	
Film speed Automatic setting with DX-coded ISO 50, 100, 200, 400, 800, 1600 and 3200 film. Film speed automatically set to ISO 100 with non-DX coded film.			Flash-c Landsca	ash, Red-eye Reduction Auto-flash, off, Night Portrait, Fill-in Flash, ape), self-timer/remote control mark, F mark, battery warning mark	

lm loading	Auto loading (film automatically adv-	В
	ances to the first frame)	В
lm advance	Automatic.	

Film rewinding Auto return/auto stop and a mid-roll film can be rewound.

Exposure Counter Automatic additive type

Self-timer Electronic, with 10-sec. delay (self-timer indicator blinks while it is operating); exposure counter shows remaining time in seconds

Flash Built-in, with guide-number control

Flash range (ISO 100) At 28mm: 0.5m/1.6ft, - 3.0m/9.8ft, At110mm: 0.8m/2.6ft, - 1.8m/5.9ft, (ISO 400) At 28mm: 0.5m/1.6ft, - 6.0m/19.6ft,

At110mm: 0.8m/2.6ft. - 3.6m/11.8ft.

Recycle time about 2-10 sec.

Fil

Fil

Auto dating unit Built-in LCD display quartz (for models with dating unit only) Watch (automatic calendar)
Date imprinting ① year-month-day, ② day-hour-minute, ③ dating unit off, @ month-day-year, ⑤ day-month-year

Battery for dating unit From camera body battery.

Battery 3 V Lithium battery 1 pc. (CR123A or DL123A); about 10 rolls of 24-exposure film can be exposed with 50% flash

Dimensions & Weight 111.5(W) x 61.5(H) x 45.5(D) mm 4.4(W) x 2.4(H) x 1.8(D) in. 190 g/6.1 oz.(without battery)

Remote Control R-4

Туре	Infared remote control
Effective range	Within 4 meters of the front of the camera
Battery life	About 50000 uses Battery can be replaced at an authorized service center.
Dimensions &	64 manufactive DD manufactive Occupation (

| Dimensions & 64mmlw/x 22mmlHi x 9mm(b) / Weight | 2.5(w) x 0.9(H)x 0.4(b)lin. | 7.5g / 0.26oz. (without battery)

Specifications and design are subject to change without notice. All data are based on KYOCERA's Test method.