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PENTAX®

OPERATING MANUAL

IQZoom145Msuper

IQZoom145Msuper
QUARTZ DATE



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Congratulations on your purchase of the PENTAX IQZoom145Msuper and welcome to the world of Pentax zoom compact photography! Your compact, light weight camera is a great companion to preserve your favorite memories. Please read this manual carefully before operating the camera to take consistently superior pictures and pay special attention to the cautions and notes in this Operating Manual.

- Pictures and illustrations shown herein may differ from the camera's actual appearance.
- Illustrations in this operating manual are the DATA MODEL.

Icon indications used in this manual

Operation direction	
Automatic operation	
Attention	
Lamp lighted	
Lamp blinking	
Correct	
Incorrect	

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FOR SAFE USE OF YOUR CAMERA

Although we have carefully designed this camera for safe operation, please be sure to follow the following precautions.

⚠WARNING **This mark indicates precautions that if not followed, could result in serious injury to the operator.**

⚠CAUTION **This mark indicates precautions that, if not followed, could result in minor or medium injury to the operator or damage to the equipment.**

⚠WARNING

- The electric circuits inside the camera contain high voltage working parts. Never attempt to disassemble the camera yourself.
- Never touch internal parts of the camera if they become exposed, as there is danger of electric shock.
- Wrapping the strap around your neck is dangerous.Make sure that small children do not the strap caught their neck.
- Be sure to store batteries out of the reach of children. Seek medical assistance immediately if accidentally swallowed.

⚠CAUTION

- Use of the flash near anyone's eyes may be harmful, especially for infants.
- Remove the battery from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal.

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PRECAUTIONS FOR YOUR CAMERA

Precautions when taking pictures

- Do not allow the camera to get wet. Should the camera get wet wipe it off immediately with a dry soft cloth.
- Do not drop the camera or allow it to hit a solid object. If the camera suffers a severe shock or impact, take it to a Pentax service center for inspection.
- Be careful not to subject the camera to strong vibrations, shock or pressure. Cushion the camera during transportation.
- Condensation on the interior or the exterior of the camera may be harmful to the camera mechanism. When taking the camera from a warm temperature to a subfreezing one or vice versa, put the camera into a case or plastic bag so that any changes in temperature difference is minimized. Do not remove it from the bag until the temperature has stabilized.
- Regular size color prints may cut off what appears on the extreme edges of the film frame. Compose your picture with a margin of safety at the edges.

Precautions for storage

- Avoid leaving the camera for extended periods in places where temperature and humidity are high, such as in a car.
- Store the camera in a cool, dry place with good air circulation that is free of dirt, dust, or chemicals.

Precautions for proper care

- Use a blower and lens brush to remove dust accumulated on the lens or the viewfinder window.
- To clean the external camera surfaces - but not glass surfaces - use a dry or silicone-treated cloth.
- Never use solvents such as paint thinner, alcohol or benzene to clean the camera.

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Other precautions

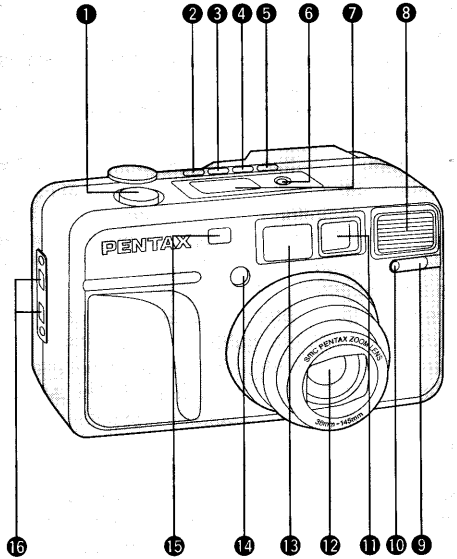
- The temperature range at which this camera functions properly is 50°C to -10°C (122°F to 14°F).
- The PENTAX warranty provided is only for the repair of defects in materials or workmanship. Damage of any kind cannot be repaired at no charge under the term of the warranty. If the difficulty is caused as a direct result of the product being used in conditions contrary to the instructions outlined in this manual, charges will be assessed or a repair quotation will be provided.

LCD (Liquid-crystal display)

- When the LCD is exposed to high temperatures over about 60°C, it may blacken, but when the temperature normalizes, it will return to normal.
- The LCD may also slow down in response to lower temperatures, but this is a normal characteristic of an LCD.
- Use one 3V lithium battery, type CR-123A or the equivalent.
- Misuse of a battery can cause hazards such as leakage, overheating, explosions, etc. The battery should be inserted with the "+" and "-" sides facing correctly.
- Never try to disassemble, short or recharge the battery. Do not dispose of the battery in fire.
- Battery performance may be temporarily hindered in low temperatures, but will recover in normal temperatures.

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NAMES OF WORKING PARTS



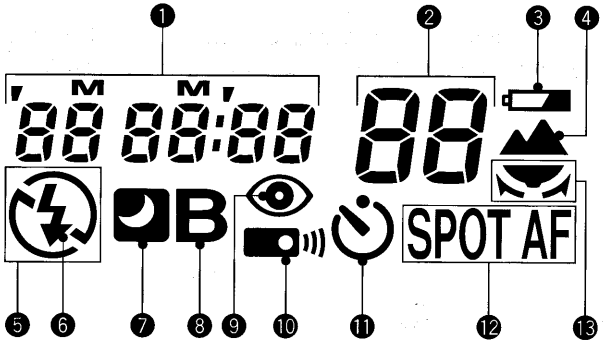


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LCD PANEL

1. Shutter release button
2. AF/Infinity-Landscape button
3. Drive button (p.27)
4. Red-eye reduction flash button (p.25)
5. Mode button (p.25)
6. Date button (p.34)
7. LCD panel
8. Built-in flash
9. Remote control receiver (p.31)
10. Self-timer lamp (p.30)
11. Viewfinder window
12. Lens
13. Autofocus window
14. Spotbeam window (p.18)
15. Light senser window
16. Strap lug (p.7)
17. Diopter adjustment dial (p.11)
18. Viewfinder eyepiece
19. Green lamp
20. Red lamp
21. Panorama switch (p.24)
22. Main switch
23. Zoom lever (p.17)
24. Back cover release lever (p.12)
25. Battery chamber cover (p.8)
26. Mid-roll rewind button (p.15)
27. Tripod socket
28. Film information window
29. Back cover

All indications will not actually appear simultaneously as shown



1. Data information / Focal length (p.34)
2. Exposure counter (p.13)
3. Battery exhaustion warning (p.9)
4. Infinity-Landscape Mode (p.20)
5. Flash off (p.28, 29)
6. Flash on (p.26, 28, 29)
7. Slow-speed-shutter (p.28)
8. Bulb (p.29)
9. Red-eye Reduction function (p.25)
10. Remote control shooting (p.31)
11. Self-timer (p.30)
12. Spot AF Mode (p.21)
13. Zoom lever (p.17, 35)

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TAKING PHOTOGRAPHS

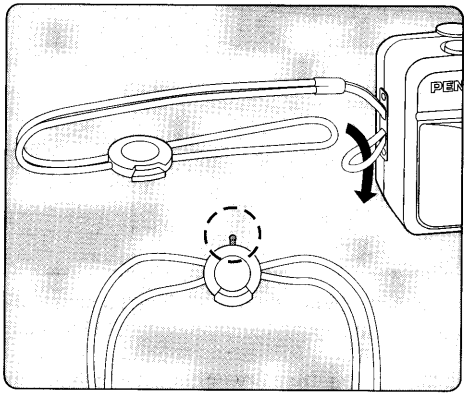
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ABOUT THE CAMERA

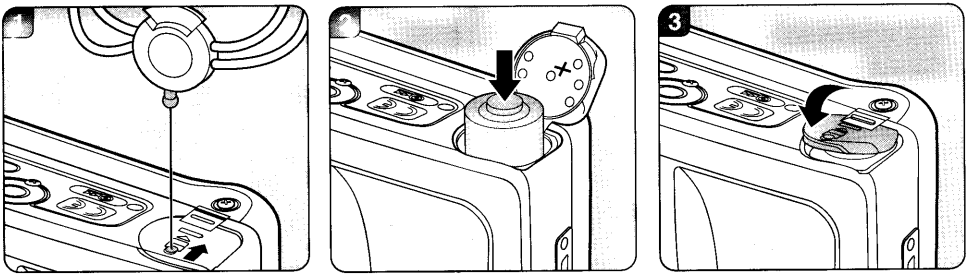


Fit the strap on the camera as illustrated.

- Use the illustrated part for opening the battery chamber cover or pushing the mid-roll rewind button.

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INSTALLING/REPLACING BATTERY



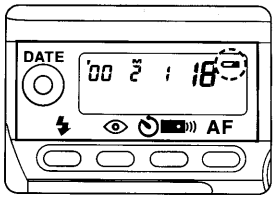
Ensure that the power is OFF before replacing the battery.

1 **Open the battery chamber cover as shown.**
2 **Insert one lithium battery (type CR-123A or the equivalent) with the plus/minus (+/-) sides matching the indications in the battery compartment.**
3 **Close the battery chamber cover. Ensure that the cover is locked with a click.**

- On the DATE MODEL, the time is initialized to 0 00 and (----) bar appears on the LCD panel when the battery chamber cover is opened. Correct the time. See page 34.

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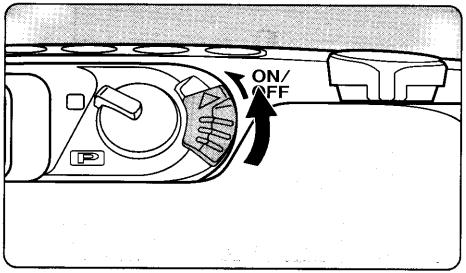
BATTERY EXHAUSTION WARNING



When the battery is nearly exhausted, the battery symbol ( ) appears on the LCD panel to warn you. Replace the battery as soon as possible. When ( ) starts blinking, no operations can be performed.

Battery life (using 24-exposure film rolls):
Approx. 13 rolls using flash 50% of the time (using the CR-123A battery and under Pentax testing conditions). Actual battery life/performance may vary drastically depending on usage of Power Zoom, Flash and external conditions such as temperature and freshness of the battery.

MAIN SWITCH



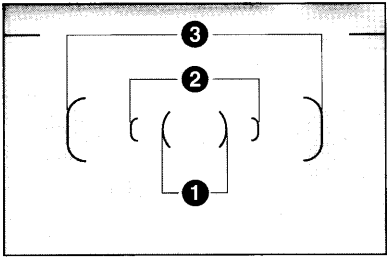
To switch ON, set the main switch to the ON position.

When the power turns ON, the lens slightly extends and the lens cover opens. The camera is now ready to shoot.

- If the camera is ON and left unused for over 3 minutes, the lens automatically retracts and the power is switched OFF to save the battery.

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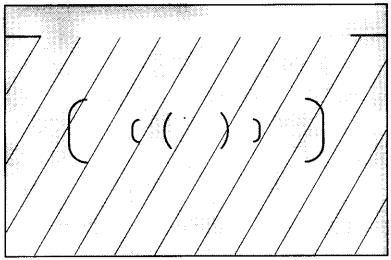
VIEWFINDER DISPLAYS



❶ Spot AF Frame
Select the Spot AF frame to focus on a particular spot in the frame.

❷ and ❸ Multi-focus Frame
For normal photography, compose the scene within this frame. When the lens is set at the 38mm setting, compose the scene within the AF frame ❷. When the lens is set at the 145mm setting, compose the scene within the AF frame ❸.

- For other lengths, the range widens as the focal length increases from 38mm to 145mm.

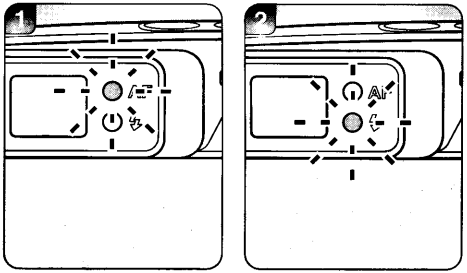


Close distance compensation frame.
When the camera-to-subject-distance is closer than 1.4m, compose the scene within this frame.

- When the camera-to-subject distance is less than 1.4m, the panorama photography is not recommended due to a substantial difference between what you see through the viewfinder verses the picture you will obtain the actual picture taking area.

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LAMP INDICATIONS

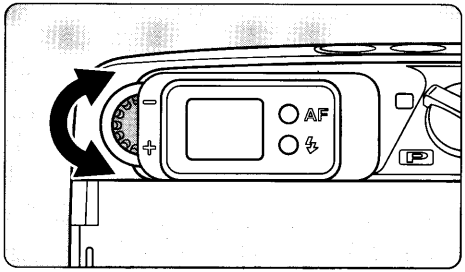


When you depress the shutter release button halfway down, the green lamp and/or red lights up or blinks as shown above.

❶ **Green lamp (Focus status AF) :**
When the subject is in focus, it will light up to indicate that you can take the picture. When the subject is not in focus, it will blink, indicating that you cannot take the picture.

❷ **Red lamp (Flash status ϟ) :**
When the flash is ready to discharge, it will light up. When the flash is being charged, it will blink.

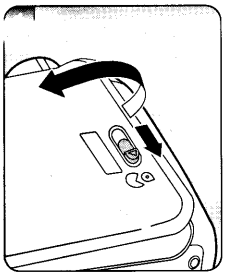
DIOPTER ADJUSTMENT

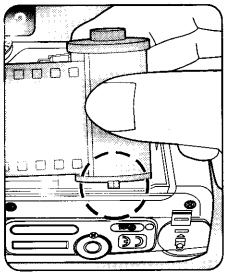


Aim the camera toward a bright subject. While looking through the viewfinder, rotate the diopter adjustment dial to the right or left until the AF frame appears in the sharpest focus.

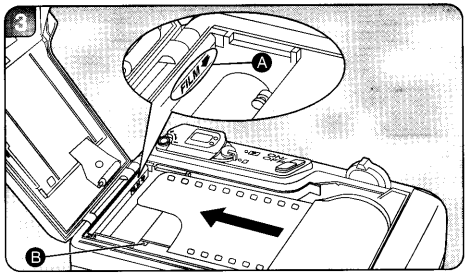
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FILM LOADING



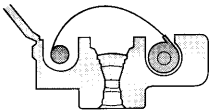


1 **Slide the back cover release lever down and pull the back cover.**
2 **Place the film cartridge in the film chamber by fitting the flat side onto the top of the rewind shaft first and then slide the top end of the film cartridge into the camera.**
3 **Pull the film leader out far enough from the cartridge to reach the take-up spool. Align the tip of the film with the film leader end mark Ⓐ and ensure the film is placed properly between the film guides.**

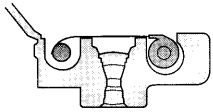


Notes:

- If there is dirt on the film detector Ⓑ, film cannot be wound properly.
- Ensure the film is taut as illustrated on the illustration. Take up any slack in the film by pushing it back into the cartridge.

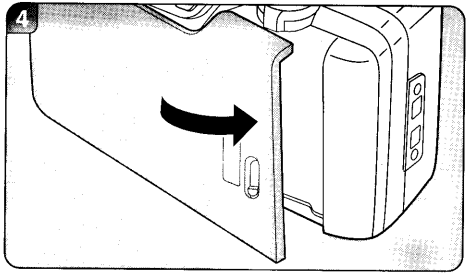


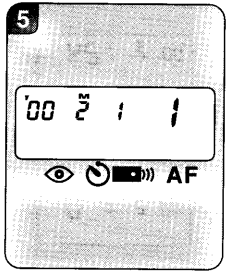
× Slack No!

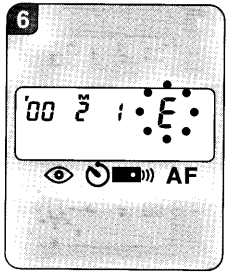


○ Flat Yes!

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4 After the back cover is closed, the film automatically advances to the first frame.

5 When "1" appears in the exposure counter on the LCD panel, the film automatically stops winding.

6 If (E) blinks on the LCD panel, the film is not properly loaded. Reload the film.

• The exposure counter indication will remain on even if the main switch is turned OFF.

Automatic film speed setting

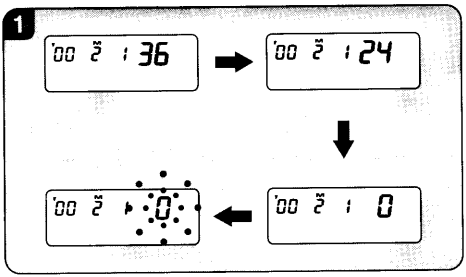
This camera is designed to use DX-coded films with ISO rating from 25 to 3200. When any of these films are loaded, the proper film speed is automatically set.

Notes:

• Non-DX coded films should not be used. If Non-DX coded film is used, the film speed is automatically set to the ISO 25.

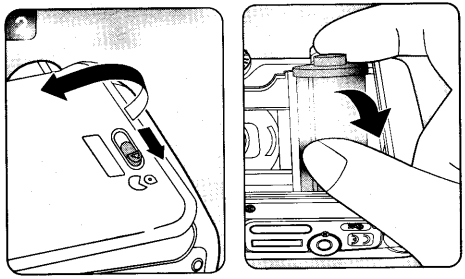
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UNLOADING FILM



1 Rewinding the film
After you have exposed the last frame of the roll, the lens retracts and the film rewinds automatically, the motor stops, and (0) blinks as shown to indicate that the film has been rewound.

- A 24-exposure roll of film takes about 20 seconds to be rewound.
- During rewinding, the exposure counter counts frame numbers in reverse.

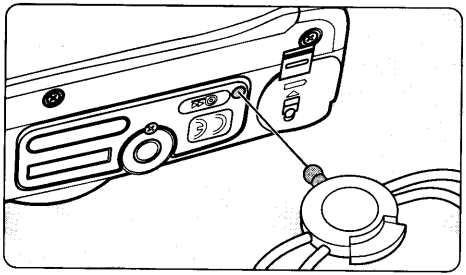


2 Unloading film
To unload the film, open the back cover, and remove the cartridge from the chamber by pulling the top of the film cartridge out first with your finger.

- Never open the back cover until the whole film roll is rewound.

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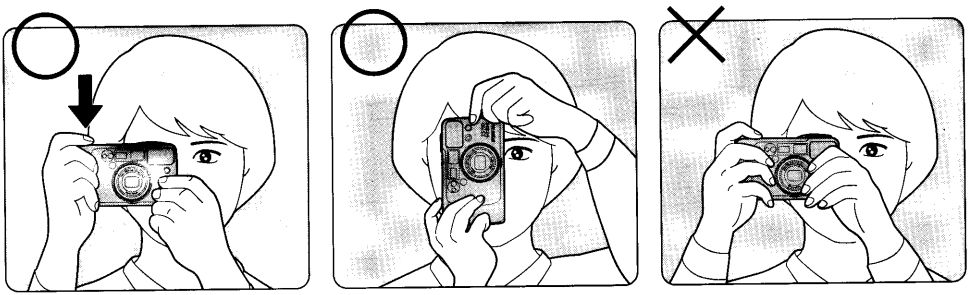
REWINDING A FILM IN MID-ROLL



If you wish to unload a film before exposing all the frames, push the mid-roll rewind button with the protrusion part of the strap clamp; the lens retracts and then film rewinding starts. When rewind is completed, the motor stops, and (▯) blinks, indicating that the back cover may be opened safely.

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HOLDING THE CAMERA



Keep the camera as still as possible, and gently depress the shutter release button. If too much force is applied, the camera is likely to shake, and the picture will be blurred. When using the flash with the camera positioned vertically, hold the camera so that the flash is above the lens.

Notes:

- Do not hold the zoom lens because it moves back and forth while in operation.
- Make sure not to obstruct the autofocus window, lens, light sensor window or the built-in flash with your fingers, hair or other object.

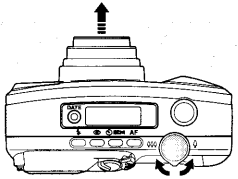
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TAKING PHOTOGRAPHS

The standard format allows a shooting range from ∞ (infinity) to 0.8m (2.60ft).



OPERATING 38-145mm ZOOM LENS

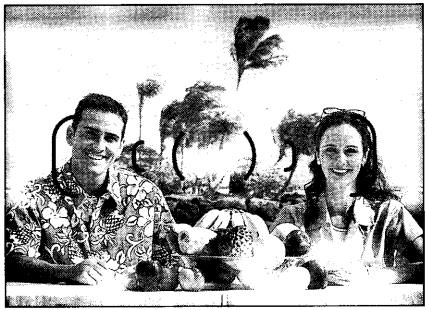


Pushing the zoom buttom on the right (↯) moves the lens towards the 145mm telephoto setting. Pushing the zoom buttom on the left (▲▲▲) moves the lens moves towards the wide-angle 38mm setting. When the lens zooms to the desired setting, release the zoom bottom and depress the shutter release button fully to take pictures.

- When you move the zoom lever or the shutter release button is depressed halfway down, the lens focal length is displayed on the LCD panel.
- Do not apply force to the zoom lens as doing so causes damage to the camera.
- The shutter cannot be released while the lens is zooming.

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1

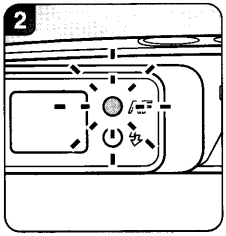


1 After zooming the lens, compose the scene, and place the autofocus frame on the subject. Release the shutter.

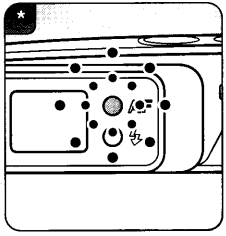
Focus aid illuminator

In low light situations and/or hard-to-autofocus subjects, a red light is automatically projected to assist the autofocus system when the shutter release button is depressed halfway down.

2



*



2 Check the lamp indication:
When the subject is in focus, the green lamp will light up.

*** The green lamp blinks if the subject is too close or if the subject is difficult to autofocus.**

- If the autofocus window is dirty, the autofocus may not function properly.

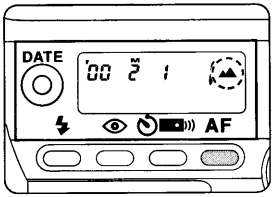
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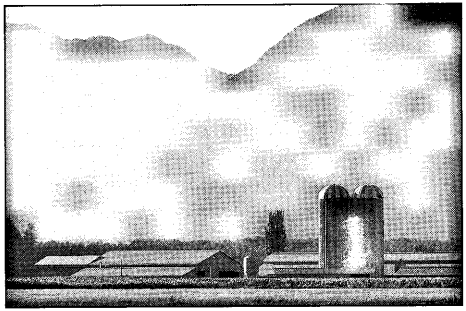
HARD-TO-AUTOFOCUS SUBJECTS

a) Extremely low-contrast subjects such as a white wall or blue sky in the autofocus frame.
b) Subjects which don't reflect much light in the autofocus frame.
c) Fast moving subjects.
d) Subjects with horizontal lines or complex or detailed patterns in the autofocus frame.
e) Multiple subjects in foreground of the autofocus frame.
f) Subjects positioned against reflected or strong backlight or with extremely bright background.

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INFINITY-LANDSCAPE MODE



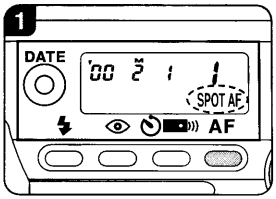


Use the Infinity-Landscape Mode to lock the focus at infinity or to take a picture of a distant scene through a window.

Press the AF/Infinity-Landscape button repeatedly until (▲) appears on the LCD panel.

- After the picture is taken, this mode is canceled.
- The flash will not discharge in the auto exposure mode even in dark light situations.

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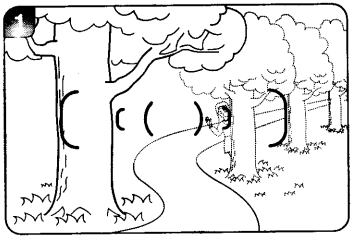
Select the Spot AF Mode to focus on a particular spot in the frame.

1 Depress the AF/Infinity-Landscape button so that the [SPOT AF] appears on the LCD panel.

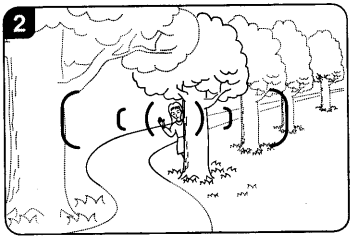


2 Focus on the subject
Focus on the subject with the Spot AF frame [( )] in the center of the viewfinder.

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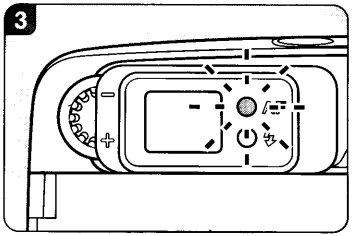


1 When taking a photograph like the one shown above, if the photograph is taken with the camera in this setting, the focus will be placed on the subject in the very front of the (( )) and will not focus on the main subject in the back. In this case, use the Spot AF Mode and focus-lock technique.



2 Focus on the subject with the Spot AF frame (( )).

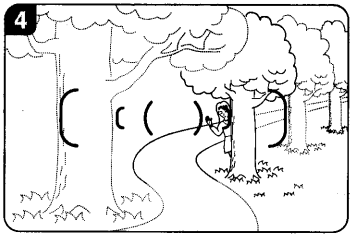
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3 Depress the shutter release button halfway down. The green lamp in the viewfinder lights up and the exposure and focus are temporarily locked.

Note:

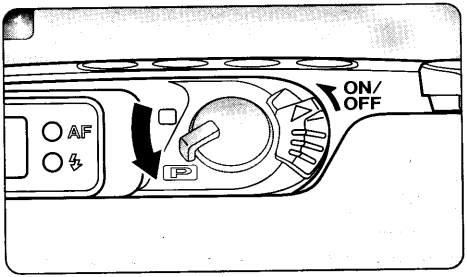
- The focus will not change as long as the green lamp is lit (Focus lock).



4 While holding the shutter release button halfway down, re-aim the camera or recompose the picture, then press the release button all the way to release the shutter.

- You can release focus lock simply by lifting your finger from the shutter release button.

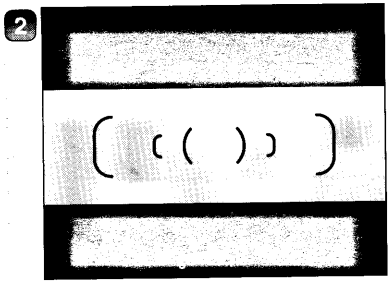
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You can switch between the panorama format and standard format picture taking mode at any time by moving the panorama switch. The panorama format picture allows horizontally positioned dynamic pictures to be taken (approx. 13x36mm on film).

1 Move the panorama switch to (P) to select the panorama format mode.

- When the picture frame is switched to panorama, the viewfinder switches to the horizontal panorama format frame.



2 Compose the scene as you would normally and release the shutter.

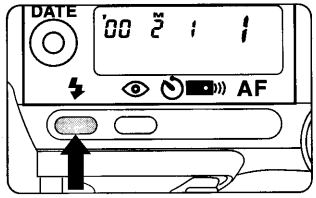
- When the camera-to-subject distance is less than 1.4m (4.6ft), use of the panorama format is not recommended.

- Panorama format processing facilities differ depending on the area and requirements. Your local film processor of camera dealers will advise you on all the options to you.

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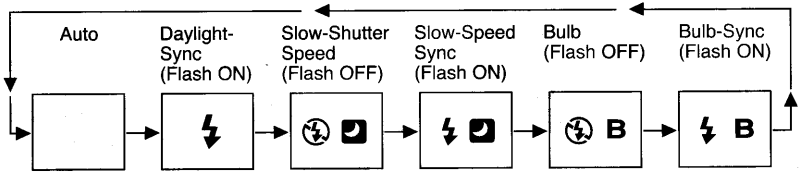
Automatic Flash Emission

The flash automatically discharges in low light or in a backlit conditions. When the shutter release button is pressed halfway down, the red lamp lights up indicating that the flash is ready. If the red lamp blinks, the built-in flash is being charged and the shutter cannot be released.



SELECT OTHER FLASH MODES

To select the various flash modes, depress the mode button (ϟ).



- For normal use, set the auto exposure mode as shown in above.
- The camera is automatically re-set to the Auto Exposure Mode when the power is turned off.

Red-Eye Reduction Flash Function

1 To reduce the red-eye phenomenon, depress the red-eye reduction flash button (◉).
2 With this mode, the flash discharges two consecutive times, reducing the appearance of the red-eye effect. To cancel this mode, depress the red-eye reduction flash button again.

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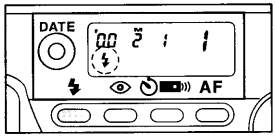
FLASH EFFECTIVE RANGE (Color negative film)

Lens ISO	38mm meters	145mm meters
25	0.8 - 1.9 (2.6 - 6.2ft)	* *
50	0.8 - 2.7 (2.6 - 8.8ft)	1.08 - 1.2 (3.5 - 3.9ft)
100	0.8 - 3.8 (2.6 - 12ft)	1.08 - 1.8 (3.5 - 5.9ft)
200	0.8 - 5.4 (2.6 - 18ft)	1.08 - 2.5 (3.5 - 8.2ft)
400	0.8 - 7.6 (2.6 - 25ft)	1.08 - 3.6 (3.5 - 12ft)
800	0.8 - 10.8 (2.6 - 3.5ft)	1.08 - 5.0 (3.5 - 16ft)
1600	0.8 - 15.2 (2.6 - 50ft)	1.08 - 7.1 (3.5 - 23ft)
3200	1.2* - 21.6 (3.9*- 71ft)	1.08 - 10.0 (3.5 - 33ft)

* With high speed film, overexposure may occur at close range due to the films high sensitivity.

** The proper exposure will not be obtained.

Daylight-Sync Shooting



Depress the mode button (ϟ) until (ϟ) appears on the LCD panel.

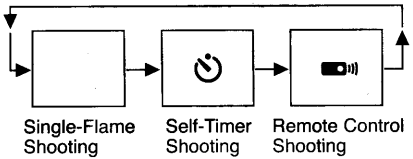
In this mode, the flash will always discharge in both dark and bright conditions. When a portrait is taken with the subject in a backlight situation, the front of the subject may be cast in shadow. In such a case, use the Daylight-Sync Shooting Mode (Flash-ON Mode) within the flash effective range to take a picture. This will ensure that a picture is well exposed without any shadow. When you wish to discharge the flash, use this mode.

Note:

- Make sure you're within the flash-effective range even when you use the built- in flash as a fill-in flash in daylight.

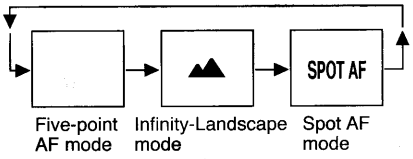
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To set various shooting modes, depress the drive button ( ).



- For normal use, set the Single-Frame Shooting Mode.

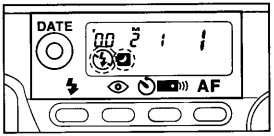
To set various focusing modes, depress the AF/Infinity-Landscape button (AF).



- For normal use, set the Five-point AF Shooting Mode

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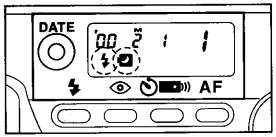
SLOW SHUTTER SPEEDS MODES



Slow Shutter Speed (Flash-OFF)

Depress the mode button ( ) until ( ) appears on the LCD panel.

In this mode, the flash does not discharge, and a picture is taken at a slow shutter speed up to approx. 2 seconds. Use this mode in places where flash photography is prohibited or for a natural existing light effect in low ambient photography.



Slow-Speed-Sync Shooting (Flash-ON)

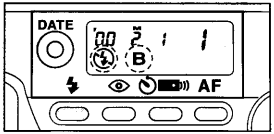
Depress the mode button ( ) until ( ) appears on the LCD panel.

It is possible to photograph subjects and background in a balanced way by using the built-in flash to properly expose the foreground subject and a slow-speed to expose the low light background.

Notes:

- When shooting in low light, the shutter speed gets slower, and camera shake is likely to blur your picture. Use of a tripod is recommended.
- In all flash modes make sure you are within the flash-effective range.

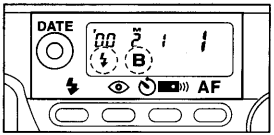
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Bulb Mode (B)

Depress the mode button (ϟ) until (⊛B) appears on the LCD panel.

This mode is useful for long exposures required for shooting fireworks and night scenes. Use of a tripod is recommended.



Bulb-Sync Mode (ϟB)

Depress the mode button (ϟ) until (ϟB) appears on the LCD panel.

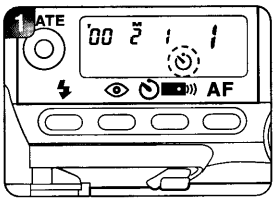
This lets you use the flash in addition to the Bulb Mode, so you can take a portrait photograph with a night scene in the background.



Bulb Mode, approx. 3 sec. (ISO 400)

- In all flash modes make sure you are within the flash-effective range.
- The shutter remains open as long as the shutter release button held down.
- Use of a tripod is recommended.

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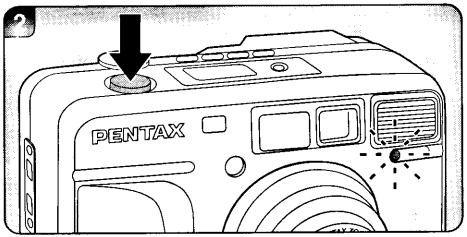


Self-Timer

Use the self-timer if you wish to get in the picture. Use of a tripod is recommended.

1 **Depress the drive button (⏲) until (⏲) appears on the LCD panel.**
2 **Assure that the subject is within the AF frame in the viewfinder. Depress the shutter release button fully.**

The shutter will be released in about 10 seconds. When the self-timer is working, the Self-Timer symbol (⏲) blinks on the LCD panel, and the Self-Timer lamp blinks 3 seconds before the shutter is released.



To cancel

To stop the self-timer operation at any time after its been activated, set the main switch to the OFF position or depress one of any buttons except the shutter release button.

- Do not stand directly in front of the camera when starting the Self-Timer, as the camera will focus on you, not the main subject. Be sure that you are behind, or next to the camera when starting the Self-Timer.
- When you want to use the flash with the self-timer, ensure that the red flash-ready lamp is lit before starting the self-timer

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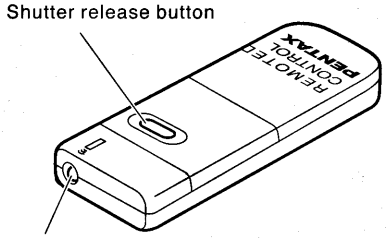
USING WIRELESS REMOTE CONTROL (OPTIONAL)

If you have purchased the optional wireless remote control, read this section.

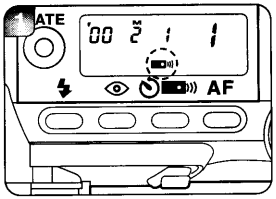
The wireless remote control allows you to trip the shutter at a distance. The shutter will be released 3 seconds after the shutter release button on the remote control is depressed.

- Use a tripod when shooting with the wireless remote control.
- When the remote control is used, the Self-Timer Shooting Mode and the Infinity-Landscape Mode cannot be used.
- Use the remote control to take pictures in the Bulb mode to avoid camera shake. While the remote control's shutter release button is held down, the shutter remains open up to a max. of 1 minutes.

Name of parts



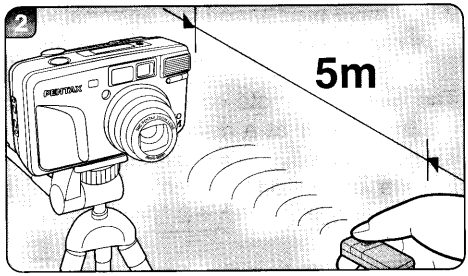
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Remote Control Shooting Mode

1 Depress the camera's drive button ( ) repeatedly until ( ) symbol appears on the LCD panel.

- If the shutter is released by the camera's release button, picture will be taken in the ordinary shooting mode.
- When the camera is set in the Remote Control Shooting Mode and left unused for 5 minutes, the lens automatically retracts and the Single-frame Mode is set.



2 Compose the scene and frame the subject with the AF frame.

Aim the remote control transmitter towards the remote control receiver on the camera, and then depress the shutter release button on the remote control.

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- The self-timer lamp blinks rapidly for 3 seconds and then the shutter is released.
- Focus cannot be locked when the remote control is in use. The subject framed in the AF frame will be in focus when the remote control's shutter release button is depressed.

Operating Distance of the Wireless Remote Control from the camera's front: within approx. 5m (16ft) straight in front of the camera

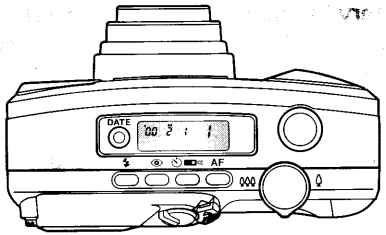
- The remote control may not work in a backlight situation. In this case, use the camera's shutter release button in the Self-Timer Mode to take pictures.
- The remote control does not work while the flash is being charged.

Battery life on the Remote Control

About 30,000 commands can be issued using the Remote Control with a battery installed. If the battery is exhausted, please have it replaced at your local Pentax Service center (there is a charge for this service).

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DATE MODE



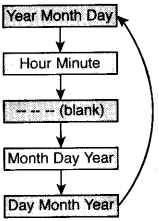
If you purchased the DATE model, read this section.

The dating unit automatically switches the DATE position between the standard and panorama according to the format mode selected.

- The DATE model records dates up to the year 2030 on pictures.
- Year 2000 will be imprinted [00] on pictures.

Switching the Mode

Press the DATE button with your finger, the mode on the LCD panel switches as shown.



Notes:

- The data on the LCD panel will be imprinted on the film.
- "----" indicates no data will be imprinted.
- "M" on the LCD panel indicates "Month".



* The date in the picture above is simulated.

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Correcting the date
Switch the power on.

1. **Pressing the DATE button for 3 seconds: the "Year" digits and ( ) will blink.**
2. **Each time the DATE button is depressed, the blinking digits changes in the following manner:**
   Year - Month - Day - Hours - Minutes
   Release the button when the desired digits appear.
3. **Move the zoom lever on the right or left side when you wish to change the blinking digits. The digits increase by one each time the zoom lever moves to the right and the digits decreases by one each time the left zoom lever moves to the left. Holding the zoom lever for about one second will change the data continuously.**
4. **After the data has been adjusted, depress the DATE button repeatedly until blinking stops.**

- The blinking "minutes" allows precise fine-tuning of the internal clock to the beginning of a specified minute. When "minutes digits" are blinking, depress the DATE button in sync with a time signal.
- If you release the shutter while the blinking data is being corrected, the data will not be imprinted.
- If there is a white or yellow object in the corner of the picture where the data is imprinted, the data may be difficult to read. When composing your photographs, try to avoid brightly-colored subjects in that corner.

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What appears troublesome may be easily remedied. Here are some problems that may occur and their remedies.

Symptoms	Causes and Remedies
1. The shutter cannot be released.	• Is the main switch turned OFF? If so, turn it ON. See page 9. • Is the battery exhausted? Insert new battery. See page 8. • Is (▯) blinking on the LCD panel? The film has been used up. Insert a new roll. See page 12. • Is (ε) blinking on the LCD panel? The film has not been loaded properly. Reload the film. See page 13.
2. My printed pictures don't look very clear.	• Did you position the autofocus frame on your subject? See page 18. • Did you obstruct the autofocus window with your fingers, hair or other object. See page 16. • Is the autofocus window dirty? Wipe it off. See page 18.
3. Zoom lens retracted automatically (the power is turned off automatically)	• The power is automatically switched OFF if the camera is left unused for over 3 minutes. See page 9. • When the camera is ON and left unused for more than 5 minutes in the Remote Control shooting mode, the camera automatically switches itself OFF to save battery power. Turn the power ON again. See page 32.

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Symptoms	Causes and Remedies
4. The Remote Control does not operate.	• The operable distance of the Remote Control is approx. 5m from the front. See page 33. • The Remote Control may not operate in a backlit situation. See page 33. • The flash is being charged. Wait until it fully charges. See page 33. • Is the battery for the remote control exhausted? See page 33.
5. The flash discharges, though it is not dark.	• The flash discharges automatically in a backlit situation. See page 25. • Daylight sync mode has been set. See page 26.
6. The (HE) or (LE) mark is displayed on the LCD panel.	• If either mark disappears when the zoom lever is moved, the camera is ready for use. The camera may be defective if either mark appears often.

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SPECIFICATIONS

Type	35mm fully automatic lens-shutter with built-in zoom lens and auto flash
Film	Auto film speed setting with 35mm perforated DX - coded film with ISO rating from 25 - 3200 (1EV step). Non - DX coded films are automatically set to ISO25
Format:	24x36mm (Approx. 13x36 in panorama format)
Film loading:	Auto film loading. Closing the back cover will automatically wind the film to first exposure.
Film winding:	Auto film winding (single - frame)
Film rewinding:	Auto film rewinding at the end of roll. Auto stop upon completion of rewinding. Rewinding time: approx. 20sec. with 24 - exposure film. Rewinding in mid - roll provided.
Frame number:	Automatic readout of successive frame numbers in ascending order when shooting, and descending order when rewinding.
Lens:	Pentax power zoom 38 - 145mm f/4.8 - 12.5 8 elements in 6 groups, Angle of view: 59 - 17°
Focusing system:	Pentax phase-matching passive five-point autofocus system. Autofocusing range: 0.8m (2.60ft) - infinity, Maximum magnification: approx. 0.14X. Focus lock is provided. Infinity-landscape mode (focus is fixed to infinity), Focus aid illuminator is automatically emitted in low light/ or hard-to-autofocus subject.
Zooming:	Electronic zoom
Shutter:	Programmed AE electronic shutter with speed approx.1/400 - 2 sec. Bulb: 1/2 sec.-1min, Electromagnetic release.
Self-timer:	Electronic lamp indication. Approx.10 sec. Cancellation after activation is possible.
Viewfinder:	Standard/panorama switchable, Actual image zoom viewfinder, Viewfinder area: 83%, Magnification: 0.40X (38mm WIDE) - 1.39X (145mm TELE), Diopter adjustment: -3 to + $1m^{-1}$, Five - point AF frames for Wide - angle and Telephoto settings, Spot AF frame, Picture frame, Close distance compensation frame, Panorama format picture area, Green lamp lighting: in - focus signal Green lamp blinking: When subject is too close and/or hard - to - autofocus subject, Red lamp lighting: Flash-ready status, Red lamp blinking: Flash being charged

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Exposure control: Programmed auto-exposure control with multi (6) metering system, Range: EV10 - EV18 at 38mm WIDE, EV14 - EV20 at 145mm TELE in Auto or Daylight-Sync Mode (ISO 400), EV5 - EV18 at 38mm WIDE EV6.5 -EV20 at 145mm in Slow-Shutter-Speed Mode (ISO 400), Automatic exposure compensation in a backlit situation.

Flash: Built - in flash with red-eye reduction mode, Automatic discharge in low lighting and back-lighting situations in auto mode, Flash ON = Day - light Sync/Slow - Shutter - Speed Sync (up to 2 sec.), Flash - OFF Mode, Bulb - Sync 1/2 sec. - 1min.

Flash effective range: 0.8 (2.6ft) - 7.6m (25ft) (38mm WIDE), 1.08 (3.5ft) - 3.6m (12ft) (145mm TELE) (ISO 400film

Flash recycling time: used).

Power source: Approx. 5 sec. under Pentax testing conditions.

Battery life: One 3V lithium battery (CR - 123A or the equivalent)

Approx. 13rolls of 24exposure film when 50% of shooting uses flash (under Pentax testing conditions)

Battery exhaustion warning: ( ) appears on the LCD panel, Shutter is locked when ( ) is blinking.

Size & Weight: 113.5 (W) x 66.0 (H) x 51.0 (D) mm (4.5" x 2.6" x 2.0") 240g (8.5oz) without battery

DATE MODEL

Date mechanism: Crystal quartz controlled; LCD with digital clock, auto calendar up to 2030. Possible to imprint both standard and panoramic format frames.

Imprinting mode: "Year, Month and Day", "Day, Hour and Minutes, "----" blank, Month, Day and Year" or "Day, Month and Year".

Size & Weight: 113.5 (W) x 66.0 (H) x 51.0 (D)mm (4.5" x 2.6" x 2.0") 240g (8.5oz) without battery

REMOTE CONTROL

Remote control: Infrared wireless remote control, 3-seconds delay shutter release, Effective range: Closer than 5m when projected from the camera's front.

Power source for Remote Control: One lithium battery CR1620 (replaced by Pentax Service facility)

Size & weight for Remote Control: 22.0 (W) x53.0 (L) x 6.5 (D) mm (0.9" x 2.1" x 0.3"), 7g (0.2oz) including battery

SPECIFICATIONS ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTIFICATION OR ANY OBLIGATION ON THE PART OF THE MANUFACTURER.