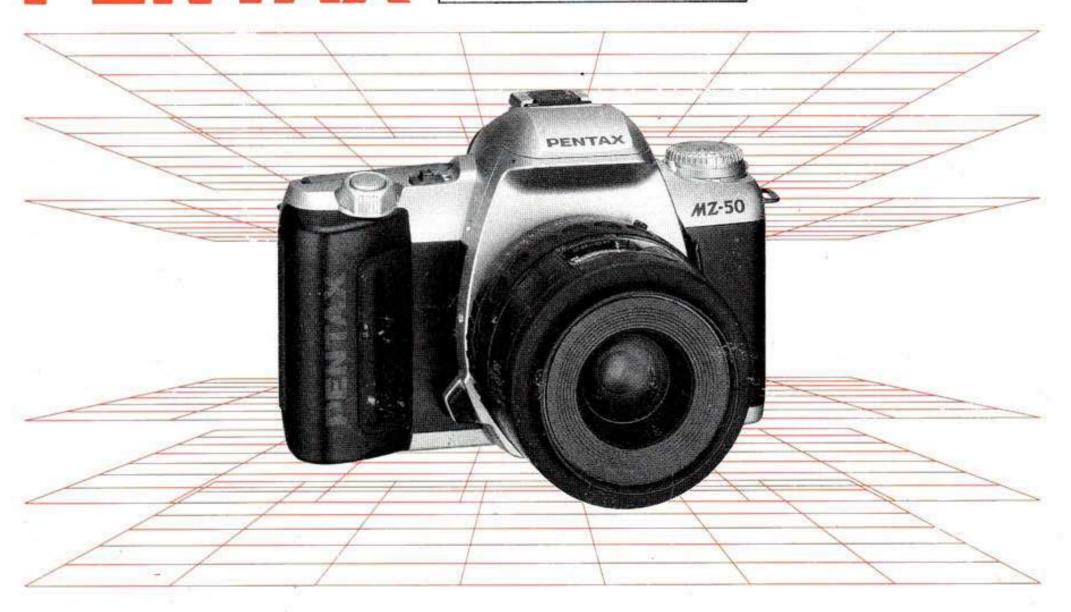
PENTAX MZ-50

OPERATING MANUAL



Congratulations on your purchase of this camera and welcome to the exciting world of Pentax autofocus photography! This compact and light weight camera is an autofocus SLR camera that offers higher levels of sophistication and performance. Incorporating a broad range of advanced technologies and highly accurate automation, this camera will perform superbly for the most exacting photographer.

Read this instruction manual carefully to get a full explanation of operations before use.

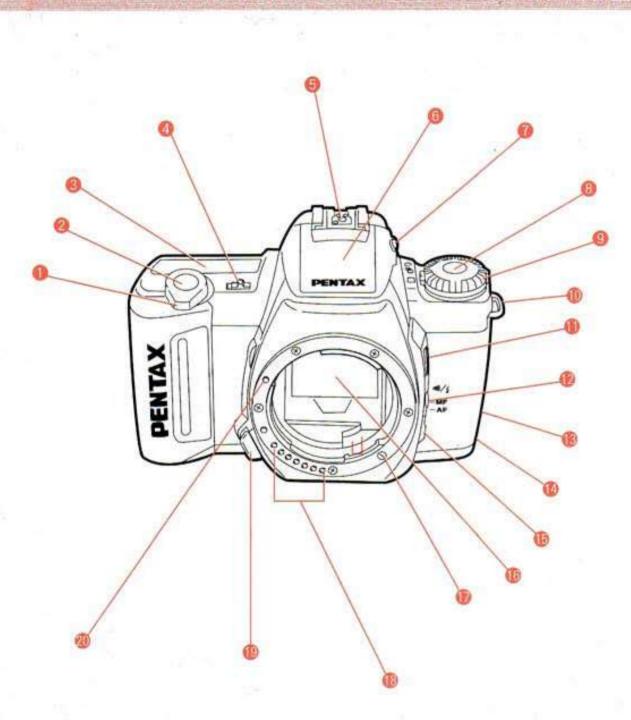


The names of the camera's working parts are listed on the front and back flaps in this operating manual. Keep the flaps unfolded for quick reference while reading this manual. Icon indicators used in this manual

Operation direction	—
Automatic operation	****
Attention	0
Lamp blinking	315
Correct	0
Incorrect	X

Lenses and accessories produced by other manufacturers are not made to our precise specifications and therefore may cause difficulties with, or actual damage to, your Pentax camera. We do not assume any responsibility or liability for difficulties resulting from the use of lenses and accessories made by other manufacturers.

NAMES OF WORKING PARTS I



- Select switch
- Shutter release button
- LCD panel (p.6)
- Main switch (p.20)
- 6 Hot shoe (p.77)
- Built-in flash (p.37)
- Flash pop-up button (p.38)
- Mode dial
- O Drive mode switch (p.47)
- Strap lug (p.13)
- Release socket (p.67)
- Multi-function button (p.42,69)
- Back cover release lever (p.22)
- Mid-roll rewind button (p.26)
- Focus mode switch (p.33,49)
- Mirror
- AF coupler
- Lens information contacts
- Lens lock button (p.19)
- @ Lens mount index (p.18)

FOR SAFE USE OF YOUR CAMERA

Although we have carefully designed this camera for safe operation, please be sure to follow precautions given on this page.



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 electronic 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 from dropping the camera or for some other reason, as there is danger of an electric shock
- Wrapping the strap around your neck is dangerous. Make sure that small children do not get the strap caught around their neck.
- Do not look directly at the sun through the camera, as viewing the sun for an extended period may damage your eyes.
- Be sure to store batteries out of the reach of children. Seek medical assistance immediately if accidentally swallowed.



CAUTION

- Do not use the flash near anyone's eyes, as it may hurt them. Be particularly careful with the flash around infants.
- Never try to disassemble, short or recharge the battery. Also, do not dispose of the battery in fire, as it may explode.
- Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not burn yourself during removal.

PRECAUTIONS FOR YOUR CAMERA

Your Pentax camera is a high-precision mechanism. Handle it with great care.

Precautions when taking pictures

- · Do not use the camera where it may come in contact with rain, water, or any other liquid, because the camera is not weather, water, or liquid resistant. Should the camera get wet from rain, splashing water, or any other liquid wipe it off immediately with a dry soft cloth.
- · Do not drop the camera or allow it to hit solid objects. If the camera suffers a 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. Use a cushion to protect the camera when carrying it in a motorcycle, car, boat, etc.
- · Condensation on the interior or exterior of the camera may be extremely harmful to the camera mechanism as it may cause rust. Furthermore, if the camera is taken from warm temperature to a subfreezing one or vice versa, the formation of icelets may cause damage. In such a case, 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 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 an extended period in places where the humidity and temperature are very high, such as in a car.
- Do not store the camera in a closet with mothballs or in an area where chemicals are handled. Store it in a place with good dry air circulation to prevent the growth of fungus.

Precautions for proper care

- Never touch the shutter curtain or mirror with your finger or any other object.
- · Use a blower and lens brush to remove dust accumulated on the lens or viewfinder.
- Never use solvents such as paint thinner, alcohol or benzene to clean the camera.
- Electrical problems may often be caused by water, dirt or dust at points of electrical contact. Also check for battery leakage, traces of dirt or grease, or corrosion due to salinity or gas. If you cannot correct the problems, have your camera inspected at a Pentax service center. Repairs of this nature are not covered under the terms of the warranty and charges may be assessed.

PRECAUTIONS FOR BATTERY USAGE

Other precautions

- The temperature range at which this camera functions properly is 50°C to -10°C (122° F to 14° F).
- A camera which has been submerged in water usually cannot be repaired. If such an accident should occur, it is advisable to contact a Pentax Service Center immediately.
- To maintain optimum performance, it is recommended that the camera be inspected everyone or two years. If the camera has not been used for an extended period, or is being prepared for an important photographic session, it is recommended that you have the camera inspected or test shoot with it.
- Repairs deemed necessary due to usage of this product in an industrial or commercial application may not be covered under the terms of the Pentax warranty.
- The PENTAX warranty provides only for the repair of defects in materials or workmanship. Damage of any kind cannot be repaired at no charge under the terms of the warranty. If the difficulty is caused as a direct result of the product being used in conditions as outlined in the "Precautions for Your Camera" section or any other operation contrary to the instructions outlined in this manual, charges will be assessed and a repair quotation will be provided.

- Use two 3V lithium batteries (CR2 type).
- Misuse of the battery can cause hazards such as leakage, overheating, explosion, etc. The battery should be inserted with the "+" and "-" sides facing correctly.
- Battery performance may be temporarily hindered in low temperatures, but will recover in normal temperatures.
- Keep a spare battery on hand for replacement convenience when shooting outdoors or while traveling.
- If the built-in flash is used continuously, the battery may become warm, but it does not mean that the battery is faulty; it is one of the battery's characteristics.
- Replace the batteries at the same time. Do not mix battery brands, type or an old battery with a new one. It may cause explosion or overheating.

PRACTICAL SHOOTING GUIDE



Focusing

Focus on the subject which is not in the center of the viewfinder.p.36 Changing the in-focus range.p.62



Flash photography

Taking a picture in low light situationsp.3	17
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Taking a picture with the desired exposure setting.
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Taking a picture in strong backlit situations with the main subject in the shadow.
p.81



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Others

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LCD PANEL INDICATION



M: Metered Manual Mode (p.64)

: Green Operation Mode(p.55)

: Portrait Program Mode (p.56)

: Landscape Program Mode (p.57)

: Close-up Program Mode (p.58)

: Action Program Mode (p.59)

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ISO : Manual-set film speed (p.73)

Ty Cooo : Shutter speed

: Battery exhaustion warning (p.17)

Av 22 : Aperture value

Exposure compensation (p.68)

: Audible PCV signal (p.69)

• Film status information (p.24,25)

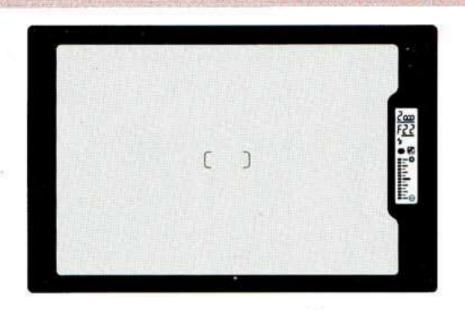
: Exposure counter (p.24)

and Exposure compensation value (p.68)

LCD (Liquid-Crystal Display)

When the LCD is exposed to high temperatures over approximately 60°C, it may blacken, but when the temperature normalizes, it should return to normal.

VIEWFINDER INDICATION



[] : Autofocus (AF) frame (p.34)

: Shutter speed

F22 : Aperture value

: Flash status information (p.37,38)

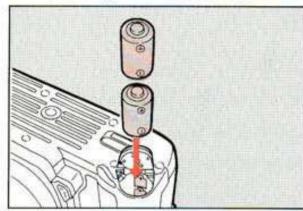
: In-Focus indicator (p.34)

: Exposure compensation (p.68)

: Bar graph (p.65,68)

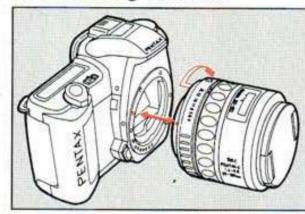
EASY TO USE (For beginners)

1. Loading the batteries



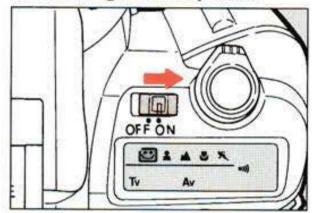
Open the battery chamber cover by using a coin. Load two batteries (**CR2** type) according to the markings (+, -) on the battery chamber cover. (See page 14.)

2. Attaching the lens



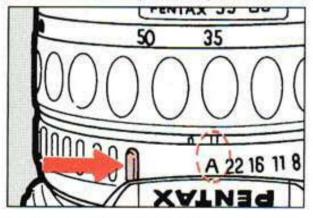
Align the red indexes on the lens and camera. Turn the lens to the right until it seats with a click. (See page 18.)

3. Turning on the power



Slide the main switch to ON. (See page 20.)

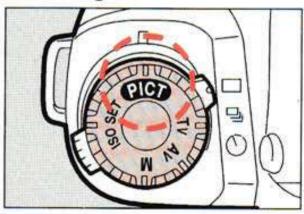
4. Positioning the aperture ring



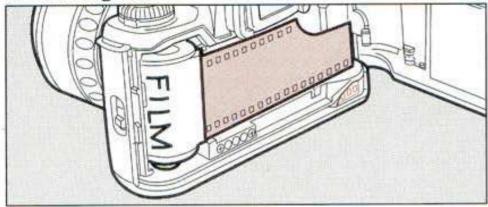
While holding down the aperture-A-lock button, turn the lens aperture ring to the [A] position. (See page 27.)

Be sure to set the lens aperture ring to the [A] position.

5. Setting the mode dial



6. Loading film



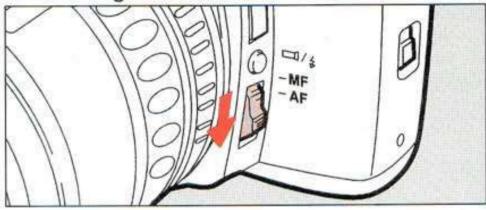
Open the back cover, insert a roll of film, align the end of the film leader with the red mark, and close the back cover. The film should advance to the first frame automatically. (See page 24.)

8. Composing the scene with the zoom ring



While looking through the viewfinder, turn the zoom ring to the right or left until you obtain the desired composition. (See page 30.)

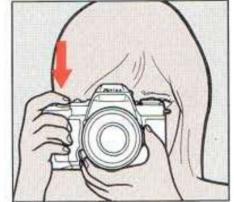
7. Selecting the Autofocus Mode



Set the focus mode switch to [AF]. (See page 33.)

9. Focus on the subject and shoot





Focus [[]] on the subject. Depress the shutter release button fully to take a photo. (See page 34.)

CAMERA FUNCTIONS AVAILABLE WITH VARIOUS LENSES

The following conditions, a correct exposure may not be obtained because the camera always set the maximum aperture even if you set your desired f/stop.

- 1. When a lens without the A position on the aperture ring is attached.
- 2. When an F or FA lens is attached with the aperture ring set other than the A position.

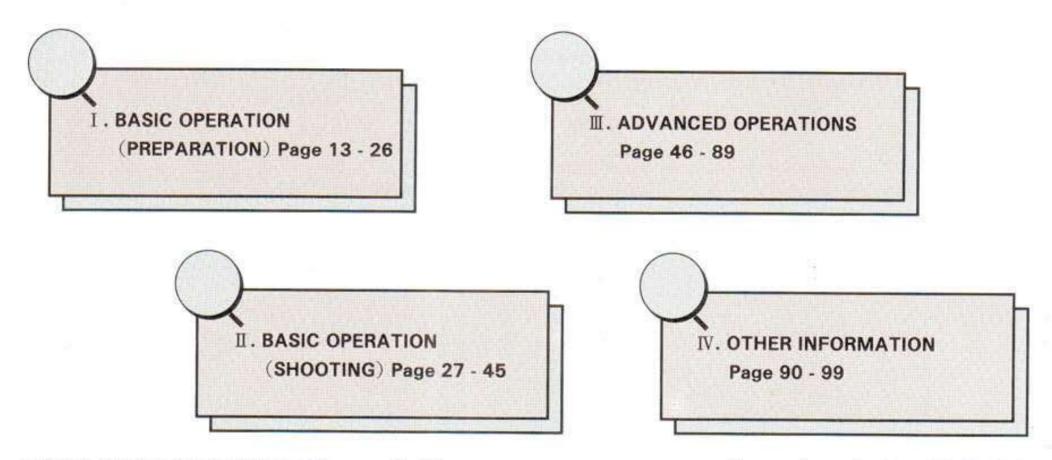
Function Lens [Mount type]	FA lens [K _{AF2}] * 1	F lens [K _{AF}] * 1	A lens [K _A]	M lens [K] * 2
Autofocus (Lens only)	0	0	×	×
(Lens with AF Adapter 1.7X)	L+	*	○ * 3	○ * 3
Manual focus (with FI) *4	○ * 5	○ * 5	○ * 5	○ * 5
(with Matte field)	0	0	0	0
Power zoom	×	×	×	×
Image size tracking	×	×	×	×
Zoom clip	×	×	×	×
Auto zoom effect	×	×	×	. ×
Picture Mode	0	0	Ö	×
Programmed AE	0	0	0	×
Aperture-Priority AE	0	10	0	△ * 2
Shutter-Priority AE	0	0	0	△*2
Manual Exposure	0	0	Õ	△∗6
Programmed TTL Auto Flash	0	0	0	×
TTL Auto Flash	Ö	Ō	0	0
Multi(2)-segment metering	0	0	0	×

Notes:

- * 1. As an F and FA Soft lens do not have the A position on the aperture ring, a correct exposure may not be obtained.
- * 2. A correct exposure may not be obtained.
- * 3. Lenses with a maximum aperture of f/2.8 or larger. (See AF Adapter operating manual.)
- * 4. Manual focusing using the focus indicator (FI) () in the viewfinder.
- * 5. Lenses with a maximum aperture of f / 5.6 or larger.
- * 6. The bar graph in the viewfinder does not light up.
- The A, F, and FA lenses are the bayonet mount lenses.
- The A, F, and FA lenses have "A" (auto) position on existing K-mount lenses.
- · The screw mount lens CANNOT be used to this camera because correct exposures will not be obtained.

HOW TO USE THIS OPERATING MANUAL

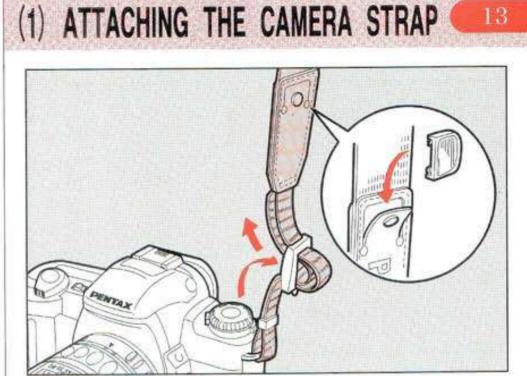
This manual is organized into the following sections, allowing you to optimize the use of the camera:



 If you want to begin taking pictures with this new camera as soon as possible, read section I and II, "BASIC OPERATION (PREPARATION)" and "BASIC OPERATION (SHOOTING)."

These sections introduce only the basic functions of this camera. More detailed information can be found in section III and section IV.

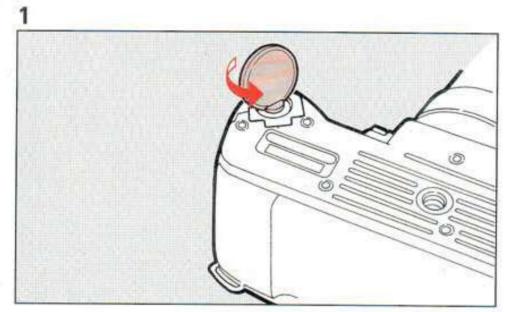
I. BASIC OPERATION (PREPARATION)



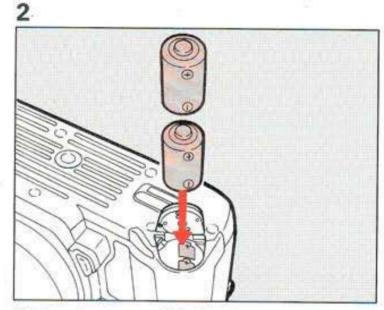
Fit the strap on the camera as illustrated.

 There is a pocket on the strap so you can store the finder cap, release socket cover, hot shoe cover or any other small accessory as illustrated.

(2) LOADING THE BATTERIES

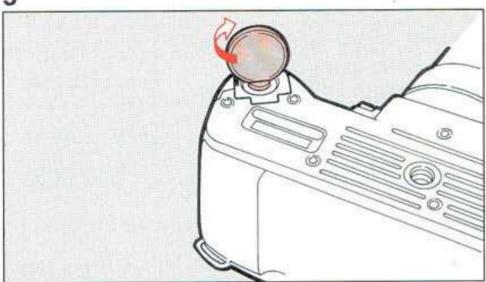


 Open the battery chamber cover by using a coin, etc. as shown in the illustration.



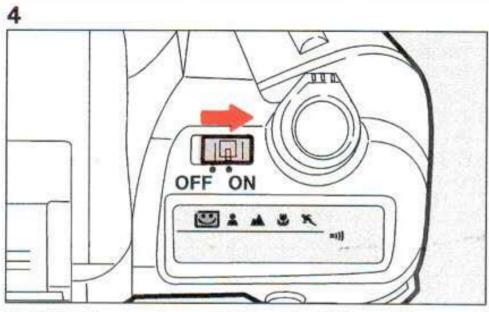
2. Load two 3V lithium batteries (CR2) or equivalent as shown in the illustration.





3. Turn the battery chamber cover screw in the direction of the arrow to lock it securely.

- When the batteries are replaced, all camera settings remain unchanged except the audible PCV signal switching, red-eye reduction flash function and automatic flash function of the built-in flash.
- The optional "AA-Battery Pack F_G" is also available for this camera instead of using the lithium batteries.
- Replace the battery at the same time. Do not mix battery brands, type or an old battery with a new one.



- Slide the main switch to the ON position and check that the LCD panel shows the information as shown above.
- The LCD display as shown above is displayed when the mode dial is set at [without a lens attached.

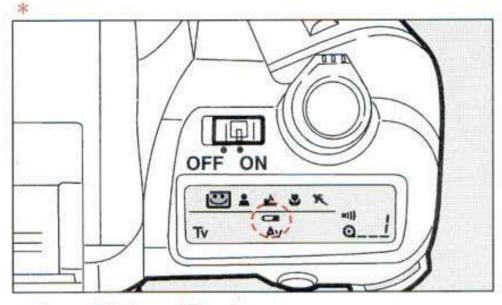
Battery Life (using 24-exposure film rolls at 20°C / 68°F)

General existing light photography	about 100 rolls
Flash photography (using flash 50% of the times)	about 25 rolls
Flash photography (using flash 100% of the times)	about 12 rolls
Bulb exposure time	about 8 hours

Battery Life (using 24-exposure film rolls at -10°C / 14°F)

General existing light photography	about 30 rolls
Flash photography (using flash 50% of the times)	about 15 rolls
Flash photography (using flash 100% of the times)	about 7 rolls
Bulb exposure time	about 2 hours

CR2 batteries were used under Pentax testing conditions. Actual battery life and performance may vary drastically depending on usage of Autofocus, Flash and external conditions such as temperature and freshness of the battery.



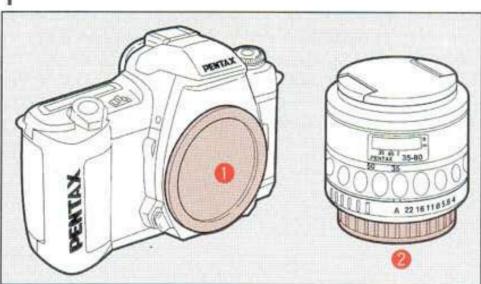
* Low Battery Warning

When the batteries are nearly exhausted, the battery symbol [appears on the LCD panel to warn you. Replace the batteries as soon as possible. See page 14 for replacing the batteries.

- When the low battery warning [starts blinking, the shutter cannot be released and all indicators in the viewfinder disappear. Replace the battery as soon as possible. See page 14 for replacing the batteries.
- Replace two batteries at the same time. Do not mix battery brands, type or an old battery with a new one.
 It may cause explosion or overheating.

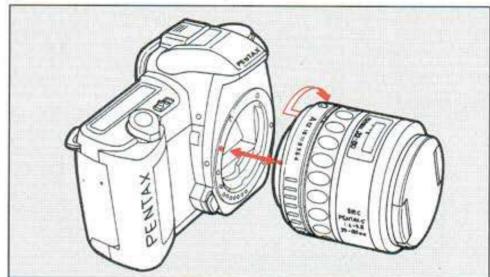
(3) ATTACHING THE LENS

1



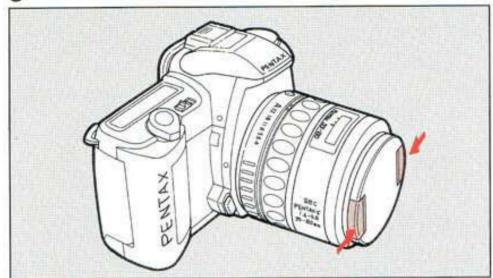
- 1. Remove the body mount cap (1) and rear lens cap (2) as shown in the illustration.
- The body mount cap is designed to protect the camera against scratches and dust at the factory. For storage, the optional accessory "Body Mount Cap K" is available.

2

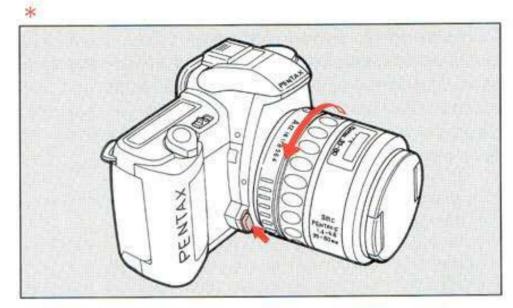


- Align the red dots on the camera and lens mount, attach the lens to the camera body, and turn it fully to the right until you hear a click.
- Ensure that the camera's main switch is in the [OFF] position before attaching a lens to prevent unexpected operation of the lens.

3



- To remove the front lens cap, squeeze the tabs on both sides in the direction of the arrow.
- We assume no responsibility nor liability for damages resulting from the use of lenses made by other manufacturers.
- The camera body and lens mount incorporate lens information contacts and an AF coupler. dirt, dust, or corrosion may cause damage to the electrical system. Clean the contacts with a soft, dry cloth.

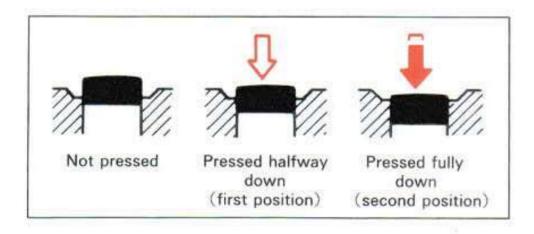


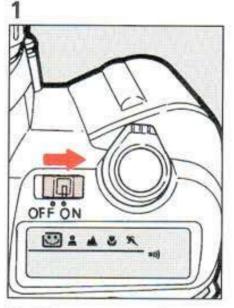
* How to remove

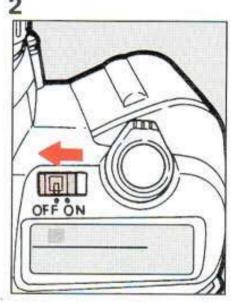
To remove the lens, turn it to the left while depressing the lens-lock-release button.

 To protect the contacts and AF coupler of the lens against damage after removal, be sure to set the lens down with the mount side facing upward. The shutter release button has two positions. Depressing it down halfway (first position) turns on the exposure meter and autofocus system. Depressing it fully (second position) releases the shutter. When taking a picture, depress the shutter release button gently to prevent camera shake.

- To prevent camera shake, depress the shutter release button gently.
- Before loading a roll of film, slowly depress the shutter release button to learn where the first position is.
- The LCD indication stays on for about 10 seconds after the button is released from the halfway position.
 Depressing the shutter release button down halfway keeps the LCD indicator on.







- The power is turned ON when the main switch is moved to the right.
- 2. The power is turned OFF when the main switch is moved to the left.
- When not in use, ensure that the main switch is set to the OFF position.

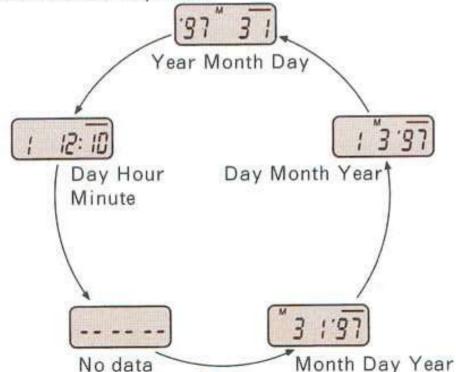
(6) USING THE DATA BACK

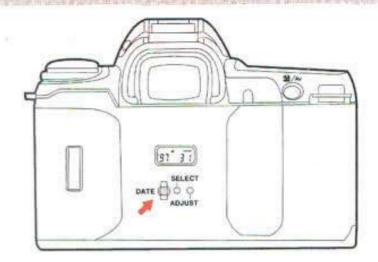
If you purchased the DATE model, read this section.

The DATE model records data information on your photographs clearly on each frame that you expose.

At each press of the DATE button as shown in the illustration, the mode on the LCD panel of the Data Back switches as indicated in the chart.

- [M] on the LCD indicates "Month".
- When the shutter is released, the bar mark [-] in the display blinks for a few seconds to indicate that the data has been imprinted.





- [-- --] indicates that no data will be imprinted.
- If there is a white or yellow object in the corner of the picture where the data is imprinting, the data may be difficult to read. When composing your photograph, try to avoid brightly-colored subject in that corner.
- To adjust the data, see page 75.
- The data back operates on a 3V lithium battery. If the data imprinted on the picture or the data displayed on the LCD panel become weak or invisible, the battery may need replacing. To replace the battery see page 74.
- See page 75 for more detail.

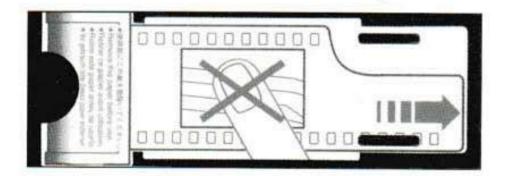
(7) FILM LOADING

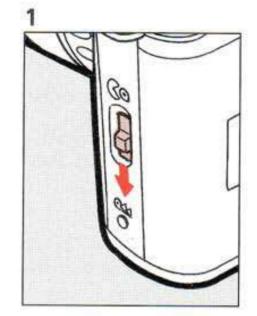
We suggest that you first operate the camera with no film loaded to become familiar with its operations.

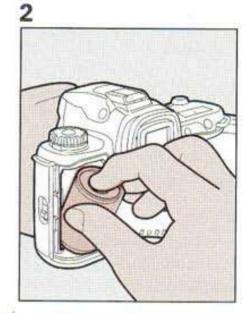
Automatic film speed setting

This camera is designed to use DX-coded films with ISO ratings from 25 to 5000.

- When DX-coded film is used, the correct film speed is automatically set for the camera. If you use a non-DX coded film, you can set the film speed manually. See page 73.
- Before loading film for the first time after purchase, open the back cover and remove the protective card.
 DO NOT TOUCH THE SHUTTER CURTAINS.

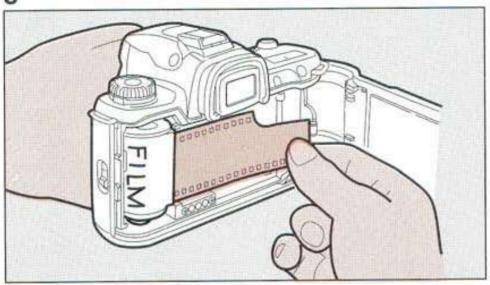






- To open the back cover, slide the back cover release lever in the direction of the arrow.
- 2. Place the film cartridge in the film chamber as shown in the illustration.
- Always load and unload film in the shade or by using your body to shade the camera.

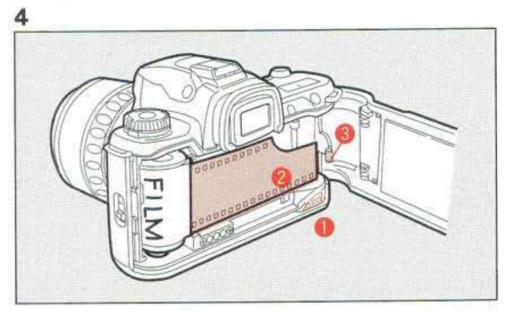
3



 As shown in the illustration, pull the film leader out only far enough to reach the take -up spool.

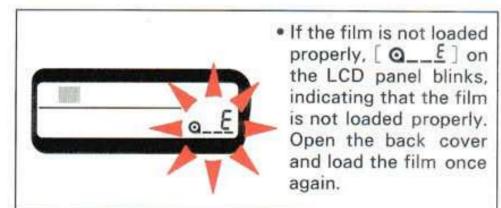
THE SHUTTER CURTAINS ARE FINE-PRECISION MATERIAL. DO NOT TOUCH THEM WITH YOUR FINGERS OR ANY OTHER OBJECT WHILE LOADING FILM.

- If you have pulled out too much film, push it back into the cartridge to reduce the slack.
- The DX information pins in the film chamber are used to read film speed. Keep them clean and free from scratches. To remove smudges, wipe them gently with a soft, dry cloth.

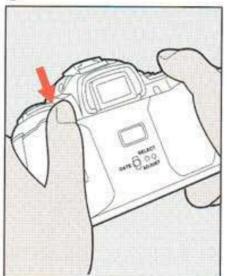


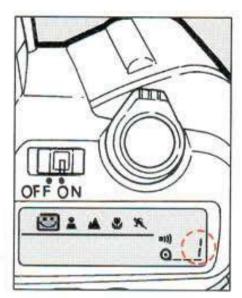
- Align the film leader with the film leader end mark (1) as shown.
- Make sure that the film leader is positioned under the film retainer (a) as shown in the illustration.
- Make sure that the film perforations properly engage on the sprocket tooth @.
- If the end of the film leader is extremely bent, straighten it or cut off the bent portion.

Film loaded with slack No! Film loaded flat Yes!



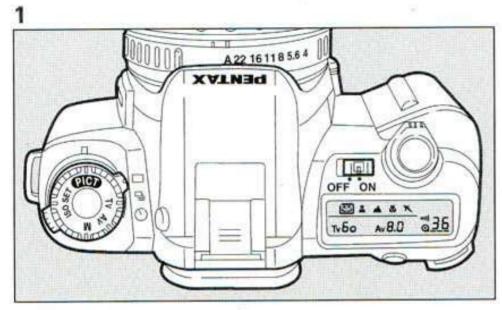




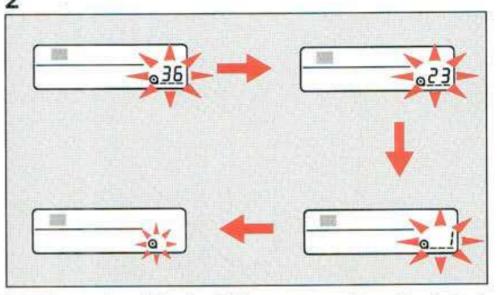


- Close the back cover and set the main switch to [ON]. The film automatically advances to the first frame.
- Check that [/] and [Q___] are displayed on the LCD panel.
- The film counter indication advances one each time the shutter is released.

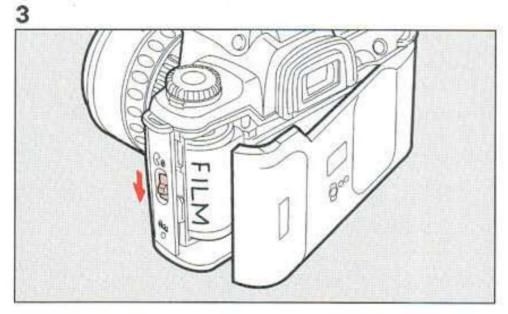
(8) UNLOADING FILM



- The film automatically rewinds at the end of the roll.
- During rewinding, [---] blinks on the LCD panel, indicating that the film is being rewound, the exposure counter counts frame numbers in reverse.
- Never open the back cover until the whole film roll is completely rewound.
- When removing the film from the camera, protect it from exposure to direct sun light.

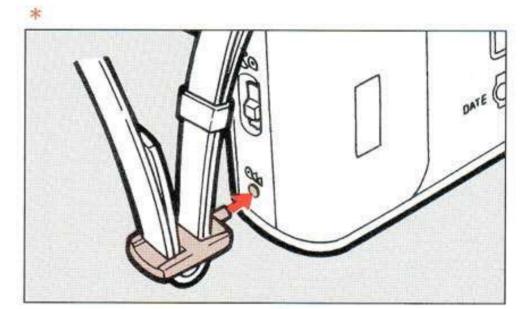


2. When the film is fully rewound, only [a] blinks on the LCD panel.



3. Open the back cover and remove the film.

- A roll of 24-exposure film takes about 13 seconds to rewind.
- Before opening the back cover, check that [a] is blinking.
- The shutter may be released a frame or more after the specified number of frames have been used as indicated by the number of frames on the film cartridge. However, those extra frames may be lost in processing. When you take important pictures, rewind the film when the film reaches the number of frames indicated on the film cartridge.



* Rewinding a film in mid-roll

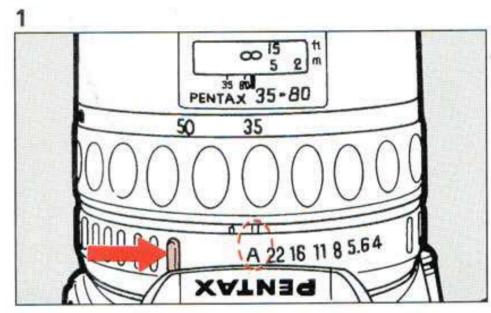
If you wish to unload the film before exposing all the frames, use this function.

Set the main switch to the ON position, and then depress the mid-roll rewind button by using the protruding part of the strap clamp.

- Do not depress the button with an object having a sharp tip.
- Before opening the back cover, check that [a] is blinking.

II. BASIC OPERATION (SHOOTING)

(1) USING THE GREEN OPERATION MODE



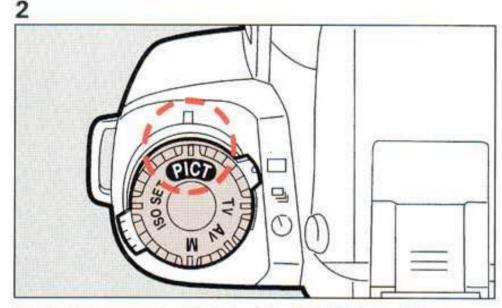
For easy picture taking, use this mode. You simply depress the shutter release button. The camera selects the best combination of aperture and shutter speed automatically.

Confirm that the lens aperture ring is set to the [A] position.

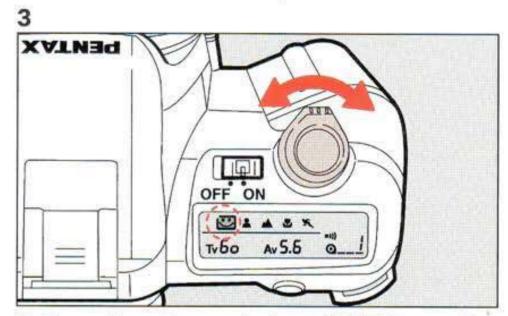
If the aperture ring is set to a position other than the A position, a correct exposure may not be obtained.

How to set

- 1. Turn the lens aperture ring to the [A] position as shown in the illustration.
- To move the lens aperture ring to the [A] position, turn the aperture ring while holding down the aperture-A lock button on the lens.



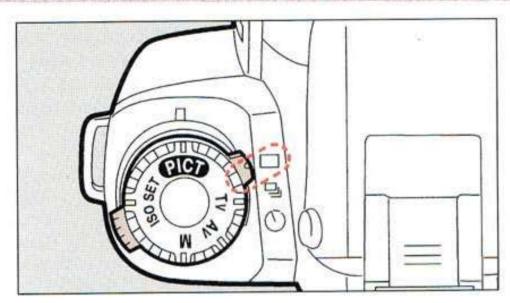
2. Set the mode dial to the [D] position.



3. Move the select switch until [□] superimposes on [:].

See page 54 for any other exposure mode.

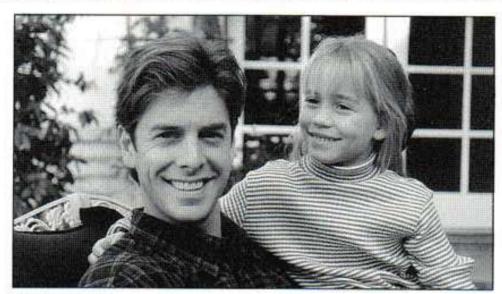
(2) SETTING THE SINGLE-FRAME DRIVE MODE



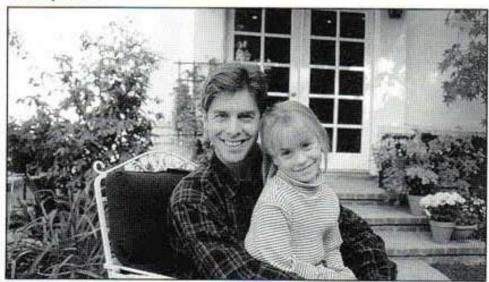
Set the drive mode switch to the $[\Box]$ position.

- One picture is taken each time the shutter release button is depressed.
- See page 46 for other available function.

(3) USING ZOOM LENSES



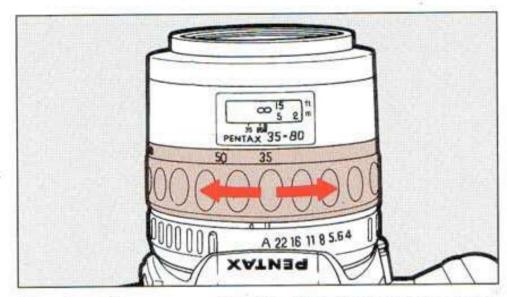
Telephoto



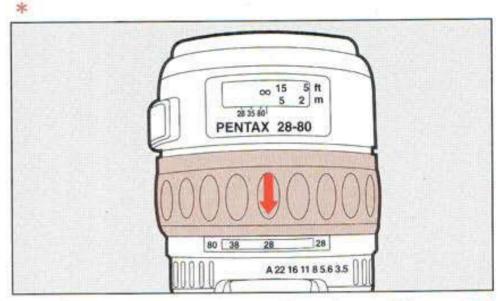
Wide angle

Using the zoom function makes the subject appear larger (telephoto) or smaller (wide angle) in the viewfinder. Turn the zoom ring to the desired position and depress the shutter release button to take a picture.

- The smaller the number shown in the zoom scale window, the wider the angle. Conversely, the larger the number, the more magnified the image appears.
- The Image Size Tracking Mode, Zoom Clip Mode, Auto Zoom Effect Mode and Power Zoom function do not operate with this camera even if an FA lens is attached.



Turning the zoom ring to the right makes the subject appear larger (telephoto) and turning it to the left makes the subject appear smaller (wide angle).

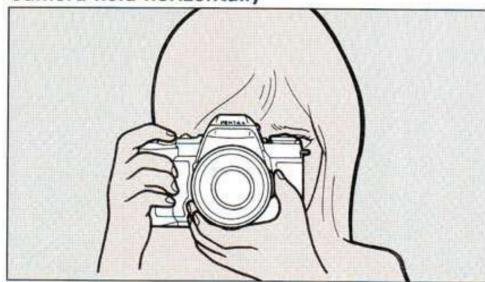


* Using the manual zoom function with an FA zoom lens attached

Pull the power zoom ring toward the camera body until the wards [POWER ZOOM] are hidden.

(4) HOLDING THE CAMERA

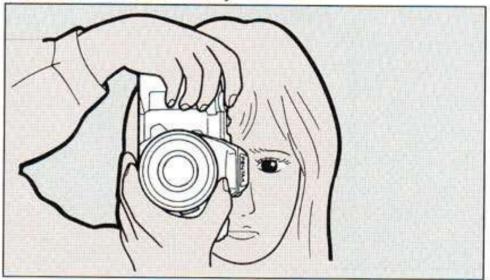
Camera held horizontally



For best results, be sure to hold the camera correctly as shown in the illustrations.

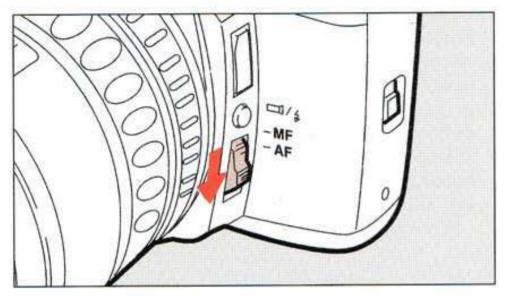
- Hold the camera firmly with your left hand supporting the camera and lens as shown in the illustrations.
- While taking a picture, hold your breath and gently depress the shutter release button. Sudden force on the shutter release button will cause camera shake, making the picture blurred.

Camera held vertically



- To reduce camera shake, support your body or the camera on a solid object - a table, tree, or a wall for instance.
- When using an ultra-telephoto lens, a tripod that is heavier than the total weight of the camera and lens is recommended to avoid camera shake.
- Although there are individual differences among photographers, in general the shutter speed for a hand held camera is the inverse of the focal length. For example, 1/50 of second when the focal length is 50mm, and 1/100 of second when it is 100mm. Using a tripod is recommended when the shutter speed is slower than this.

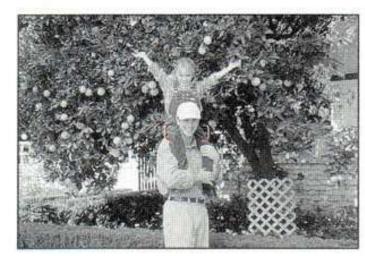
(5) SELECTING THE AUTOFOCUS MODE

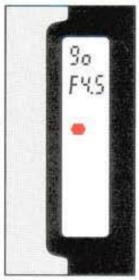


Set the focus mode switch to [AF].

- · When you depress the shutter release button halfway down, the lens automatically focuses.
- · See page 49 for manual focusing.

(6) TAKING A PICTURE





Set the focus mode switch to [AF].

- 1. Focus on the subject with the autofocus frame [()] indicated in red in the photograph. When the shutter release button is depressed halfway down, the lens automatically focuses.
- When the subject is in focus, the focus indicator [O] lights up and an audible PCV beeping signal is emitted.

- When the shutter release button is depressed halfway down, the shutter speed and aperture setting are displayed in the viewfinder and the on LCD panel.
- When [*] blinks in the viewfinder and on the LCD panel, the use of the built-in flash is recommended.
 For more details on the built-in flash, see page 37.
- The audible PCV signal can be turned OFF. See details on page 69.
- During autofocus operation, the focusing ring should not be obstructed with your fingers, hands, or any other object.

The focus indicator [O] blinks when the camera is not able to obtain proper focus for one of the following reasons.

- The subject is too close. Adjust the camera-tosubject distance.
- ② The subject is difficult to autofocus. See "HARD-TO-AUTOFOCUS" subject on page 52.

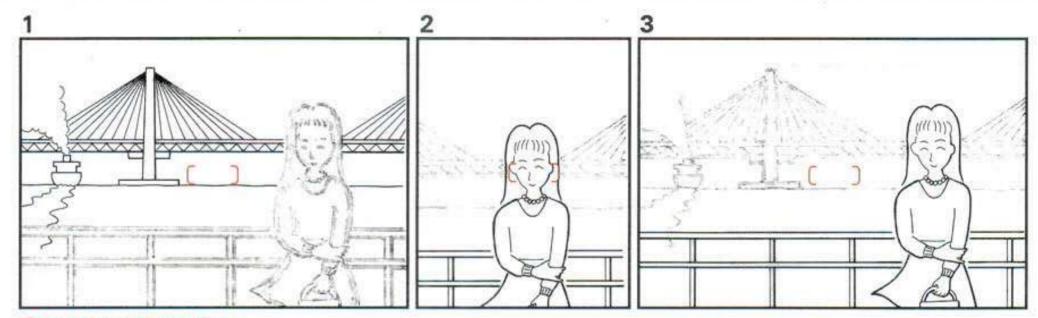
To release the shutter, gently depress the shutter release button fully.

- The shutter cannot be released if the subject is out of focus.
- Depress the shutter release button halfway down.
 While [] is on, the camera-to-subject distance is fixed (focus lock). To refocus on another subject, lift your finger off the shutter release button.

Predictive Autofocus Mode

When the camera senses subject movement during the autofocus operation, the camera will automatically switch the focus mode to the predictive autofocus mode to measure the speed of a moving subject, and predict where it will be at the moment of shutter release to maintain sharp focus on the subject.

 If the subject is moving too fast, the shutter may not release.



Focus Lock Function

Purpose

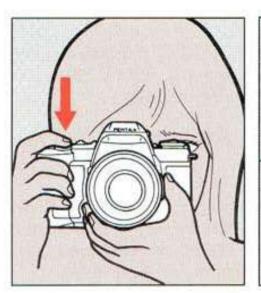
The camera focuses with the autofocus frame in the center of the viewfinder. When the main subject is off the autofocus frame, the main subject will not be focused properly. Use the focus lock technique to bring the main subject into focus.

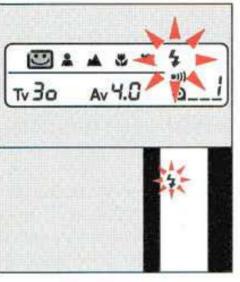
How to use

 When the composition does not allow the autofocus frame to be placed over the most important subject in the picture, the camera will focus on the background as shown in the illustration.

- To prevent this, center the autofocus frame on the main subject and keep depressing the shutter release button halfway down. The infocus indicator remains on, indicating that the focus is temporarily locked.
- While holding the shutter release button halfway down, re-aim the camera or recompose the picture, then depress the shutter release button all the way to release the shutter.
- Lifting your finger off the shutter release button clears the in-focus indicator [O] in the viewfinder and cancels the focus lock function.
- To refocus on another subject, lift your finger off the shutter release button.

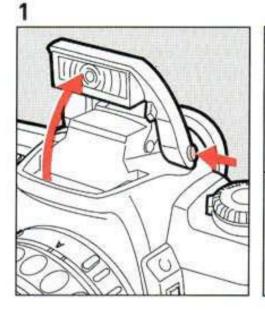
(7) BASIC OPERATION FOR THE BUILT-IN RETRACTABLE TTL FLASH (RTF)

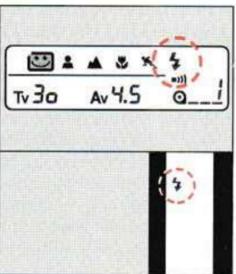




The Flash-Recommended Indicator

If the built-in flash is recommended, the flash-recommended indicator [\$] starts blinking in the view-finder and on the LCD panel when the shutter release button is depressed halfway down.



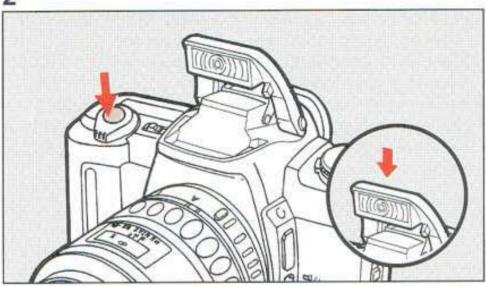


Using the built-in flash

If [4A] is displayed on the LCD panel, it indicates that the automatic flash function is set. Delete it from the LCD panel. See page 45 for more details.

- Push the flash pop-up button to activate the flash.
- The built-in flash starts charging automatically. When
 it is fully charged, [*] appears on the LCD panel.
 When the shutter release button is depressed halfway down, [*] also appears in the viewfinder.
- When the built-in flash is used, using a lens hood is NOT recommended as it may obstruct the path of the light coming from the flash, causing vignetting in the picture corners.





- Depress the shutter release button fully, and the flash unit discharges. After using the flash, retract the built-in flash by pressing it down into the camera body.
- The shutter cannot be released until the flash is fully charged.
- If the built-in flash is used continuously, the battery may become warm, but it does not mean the battery is faulty; it is one of the battery's characteristics.
- With the built-in flash poppep-up, an external flash cannot be attached to the hot shoe. If you would like to use an external flash together with the built-in flash, see the flash connections on page 77.

Flash effective range in the Picture Mode with ISO 100 (400) is used

Maximum Lens Aperture	Effective Range
f/1.4	approx. 0.8 - 3.9m (0.8- 5.6m) 2.6 - 12.8ft (2.6-18.4ft)
f/2	approx. 0.8 - 3.3m (0.8- 4.8m) 2.6 - 10.8ft (2.6-15.7ft)
f/2.8	approx. 0.7 - 2.8m (0.7- 4.0m) 2.3 - 9.2ft (2.3-13.1ft)
f/3.5,f/4.7	approx. 0.7 - 2.4m (0.7- 4.0m) 2.3 - 7.9ft (2.3-13.1ft)
f/5.6	approx. 0.7 - 2.0m (0.7- 4.0m) 2.3 - 6.6ft (2.3-13.1ft)

The effective range of the flash depends on the maximum aperture of the lens is in use.

A lens with a maximum aperture of f/1.4 is marked as 1:1.4 on its barrel.

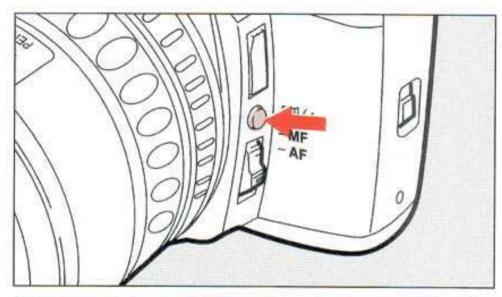
 This effective range table is only applicable when the exposure mode is set in the Picture Mode. When any other exposure mode is used, see page 71.

The minimum effective range is always 0.7m (2.6ft) even if a lens with a maximum aperture f / 2.8 or smaller is in use. When a subject is shot at a distance closer than 0.7m (2.6ft), the correct exposure cannot be obtained, and you will see vignetting in the picture corners.

Inappropriate lens warning when the built-in flash is used

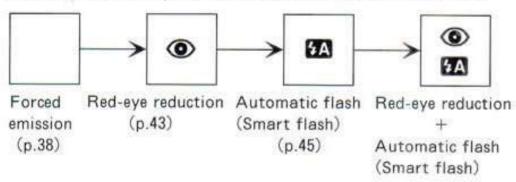
When using an inappropriate F- or FA- lens, [\$] will blink in the viewfinder and on the LCD panel when the shutter release button is depressed halfway down. For more details on COMPATIBILITY OF F AND FA LENSES WITH THE BUILT-IN FLASH, see page 72.

- Taking a picture while this warning is displayed may cause vignetting in the picture corners or semicircular vignetting at the bottom of the picture.
- When lenses other than an F or FA are used, this warning will not appear.

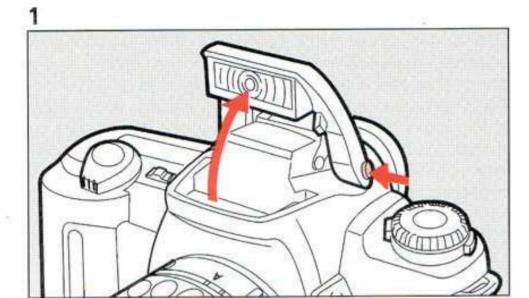


Depress the multi-function button with the built-in flash popped up

At each press of the multi-function button, the flash mode on the LCD panel switches as shown in the chart.



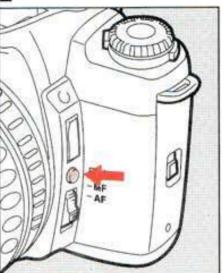
- The Automatic flash function will be set only with the Picture Mode set. If any other mode is set, the Redeye reduction or Forced emission mode will be set.
- When the built-in flash is retracted, depressing the multi-function button switches the audible PCV signal ON and OFF.

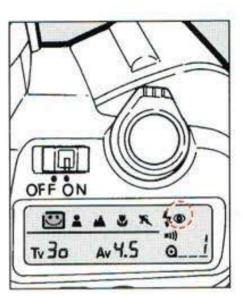


Red-eye Reduction Flash Function

This camera includes a red-eye reduction flash function, which reduces the red-eye phenomenon utilizing preflash. In this mode, the preflash is discharged just before the shutter is released which reduces the diameter of the pupil of the eye. Then the main flash is discharged while the pupils are smaller, which in turn reduces the red-eye effect.







How to set

- 1. Push the flash pop-up button to activate the flash.
- Depress the multi-function button until [appears on the LCD panel.

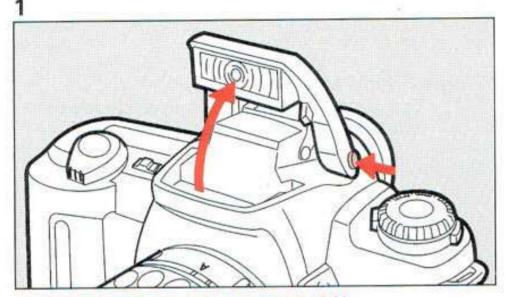
How to cancel

With the built-in flash popped-up, depress the multifunction button until [disappears from LCD panel.

- Depress the multi-function button only when the builtin flash popped-up. If multi-function button is depressed with the built-in flash retracted, the PCV Signal Mode will be changed.
- When the AF500FTZ is attached and the slave flash function is in use, the Red-eye reduction flash function cannot be used as the slave flash is discharged when the preflash of the built-in flash is discharged.
- When only a dedicated flash is in use and is discharged, the red-eye reduction display from the LCD panel is disregarded.

About Red-eye Phenomenon

Shooting portraits with flash in a dark environment often causes a subject's eyes to turn out reddish in the print. This phenomenon, commonly known as "Red-Eye", is caused by the reflection of the electronic flash in the retina of your subjects eye. It can be reduced by taking the photo in a brighter light condition or by shooting with a wider angle lens at a closer distance, or by employing the red-eye reduction flash feature. When using a Pentax dedicated flash unit off the camera, it may also help to position the flash as far away from the camera as possible.



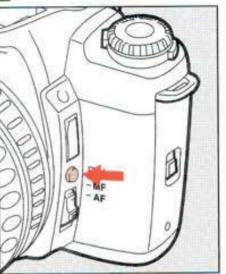
AUTOMATIC FLASH FUNCTION (SMART FLASH FUNCTION)

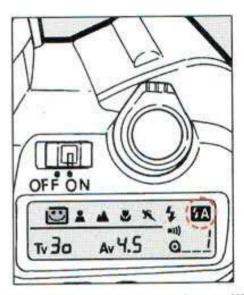
This is a convenient built-in flash mode that the flash discharges only when it is necessary even if the flash is in the popped-up position.

How to set

- 1. Push the flash pop-up button to activate the flash.
- 2. Depress the multi-function button until [3A] appears on the LCD panel.







- In the Picture Mode, the automatic flash function will only operate when the subject is in a low light or backlit condition.
- Depress the multi-function button with the built-in flash in its popped up position. If the button is depressed with the built-in flash in its retracted position, the PCV audible beep mode will be switched on off.

How to cancel

III. ADVANCED OPERATIONS

(1) SELECTING A DRIVE MODE

This camera has a total of three drive modes as shown.

Types of Drive Modes

Single-Frame Mode

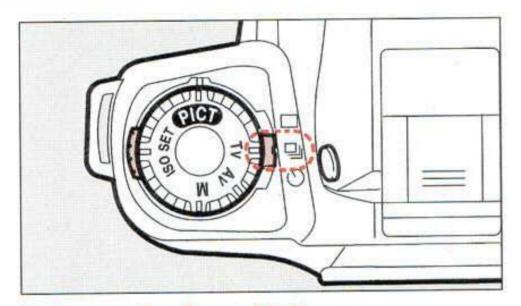
[]: One picture is taken each time the shutter release button is depressed.

Consecutive-Frame Mode

Pictures can be taken consecutively while holding down the shutter release button. See page 47.

Self-timer Mode

[O]: A picture will be taken with a 12-second-delay. See page 47.



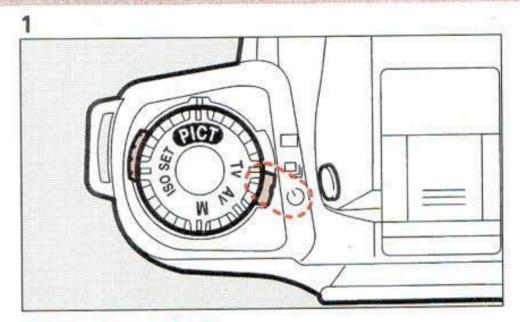
1. Consecutive-Frame Mode

Consecutive pictures can be taken by holding down the shutter release button.

How to set

Set the drive mode switch to [4].

- The camera focuses on the subject frame by frame in this mode.
- The shutter cannot be released while the built-in flash is being charged.

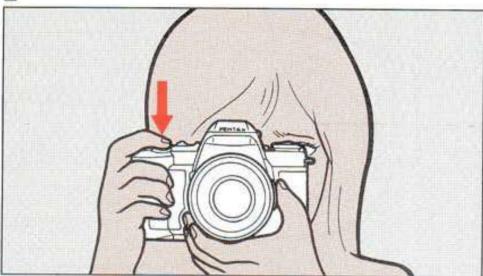


2. Self-Timer Mode

The self-timer mode delays the shutter release, and is useful for taking group shots that include the photographer. The shutter will be released about 12 seconds after the shutter release is depressed.

1. Set the drive mode switch to [3].

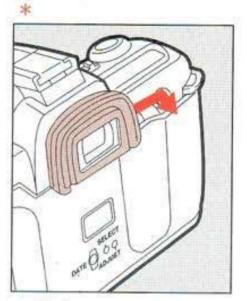


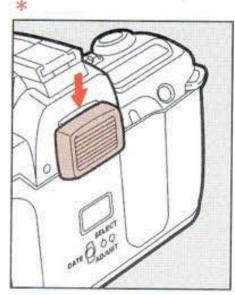


- Focus on the subject first using the autofocus frame and by depressing the shutter release button halfway down. Then depress the shutter release button fully.
- The shutter will be released about 12 seconds later.
- When the self-timer is in operation, the audible PCV signal is heard and the rate increases for the last two seconds.

How to cancel

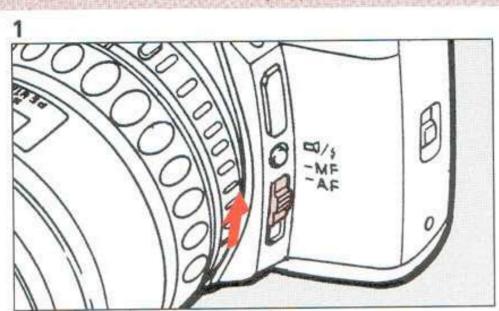
To cancel the self-timer operation after it has been activated, move the drive mode switch to a position other than [3].





- * Underexposure may occur if light enters the viewfinder during self-timer operation. If you intend to move away from the viewfinder, attach the supplied finder cap as shown in the illustration.
- When using accessories such as the finder cap, remove the Eyecup F_H. The Eyecup F_H comes from the factory fitted to the camera's viewfinder accessory grooves.

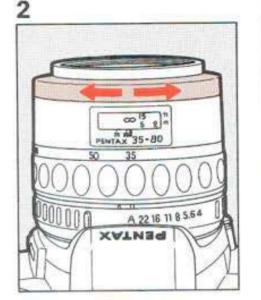
(2) MANUAL FOCUSING

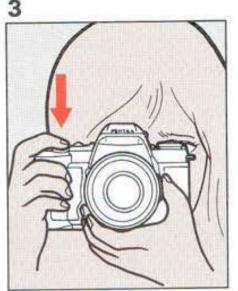


Using a manual-focus lens

When mounting a non-autofous lens (A-lens) with a maximum aperture of f/5.6 or larger (f/1.2 to f/5.6), you can use the manual focus mode to focus the lens with the aid of the in-focus indicator [O] in the viewfinder.

When the subject comes into focus, the focus indicator [O] lights up in the viewfinder and an audible PCV signal is heard. The audible PCV signal can be canceled. See page 69.





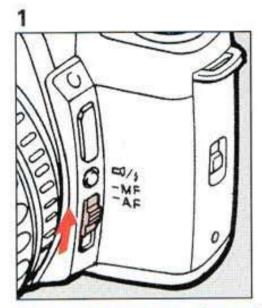
How to focus

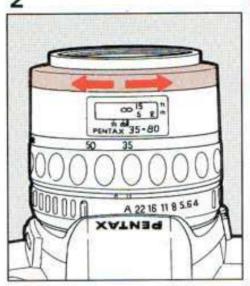
- 1. Set the focus mode switch to [MF].
- While looking through the viewfinder, turn the focusing ring to the right or left while holding the shutter release button halfway down.
- When the subject comes into focus, the infocus indicator [○] lights up in the view-finder. Depress the shutter release button fully to take the photograph.

When the autofocus mode or the in-focus indicator is not usable for focusing

When the autofocus function or the viewfinder's infocus indicator [O] cannot be used for focus confirmation for the following reasons, focus on the subject in the manual focus mode with the aid of the matte field in the viewfinder as you would with a non-AF SLR camera.

- a) The in-focus indicator [O] blinks because the subject is difficult to autofocus.
- b) The maximum aperture of the lens in use is smaller than f / 5.6.





How to focus on the subject

- 1. Set the focus mode switch to [MF].
- While looking through the viewfinder, turn the focusing ring to the right or left until the image in the viewfinder is clearest.

Using the snap-in focus function

When the subject comes to the point where the lens was prefocused, the shutter is automatically released.

How to use

- 1. Use a non-autofocus (A-lens) lens.
- 2. Set the focus mode switch to [AF].
- Focus at the point where you wish to capture the subject.
- Using the optional "Cable Switch F", keep the trigger release button depressed so that the autofocus and metering systems stay active.
- The camera releases the shutter automatically when the subject comes into focus at the point selected.

HARD-TO-AUTOFOCUS SUBJECTS

The autofocus system is highly precise, but not perfect. Depending on the brightness, contrast, shape, and size of your subject, the autofocus system may not operate. In such a case, set the focus mode switch to [MF] and use the manual focus mode to focus the lens on the subject with the aid of the matte field in the viewfinder (see page 51).

Subjects which may fool the autofocus system include:

- a) Extremely low-contrast subjects such as a white wall in the autofocus frame [[]].
- b) Subjects which don't reflect much light in the autofocus frame [[]].
- c) Subjects which are moving too fast.
- d) Multiple subjects in the foreground and background of the autofocus frame [[]].
- e) Subjects positioned against reflected light or strong backlight or with extremely bright backgrounds.

Notes on accessories

The following condition does not allow autofocusing or manual focusing with the in-focus indicator in the view-finder. Use the manual focus mode to focus on the subject with the aid of the matte field surrounding the autofocus frame.

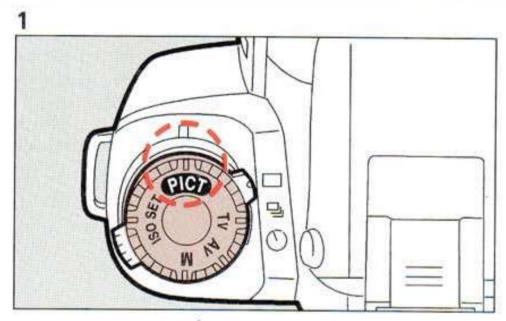
 When using special effect filters or "Magic Image Attachment" or "Stereo Adapter".

Using a Polarizing Filter

When using an ordinary polarizing filter; the half mirror incorporated into the autofocus system reduces the effectiveness of the autofocus function when used in combination with an ordinary polarizing filter. Use a CIRCULAR POLARIZING FILTER for proper autofocus operation.

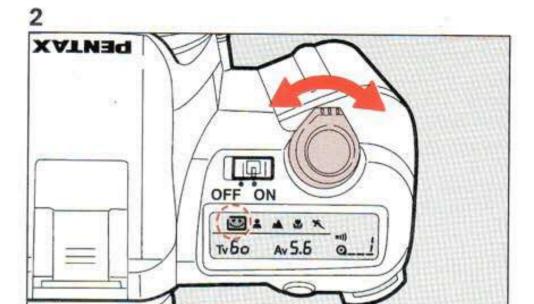


(3) USING THE PICTURE MODE

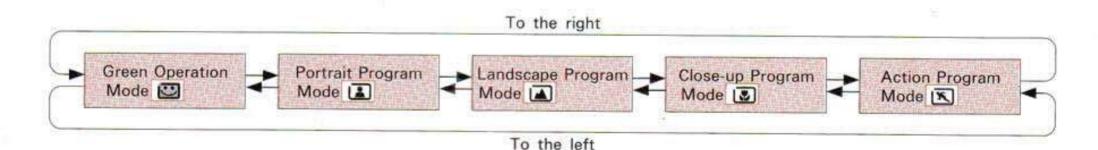


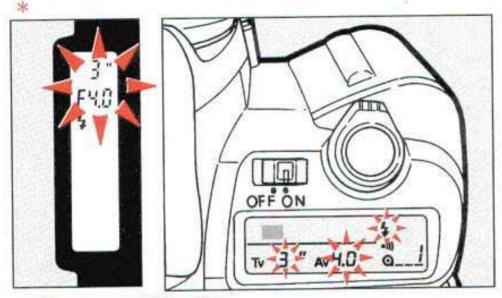
You can also select your desired Picture Mode manually. The picture mode has a total of 5 modes as follows. See details for each mode on page 55 - 59.

How to set



- To select the desired picture mode, move the select switch until [] superimposes on the picture mode displayed on the LCD panel.
- When the lens aperture ring is set to a position other than the A position, a correct exposure may not be obtained.

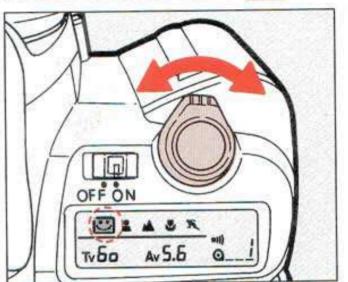




* Exposure Warning

If the subject is too bright or too dark, the shutter speed and aperture setting in the viewfinder will blink. If the subject is too bright, select a darker subject. Use a flash if the subject is too dark.

Green Operation Mode





For easy picture taking, use the Green Operation Mode. You simply depress the shutter release button. The camera selects the best combination of aperture and shutter speed setting.

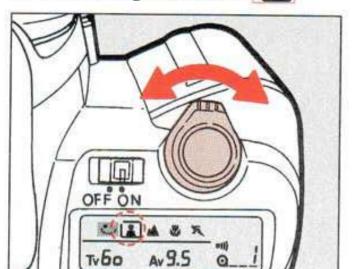
How to set

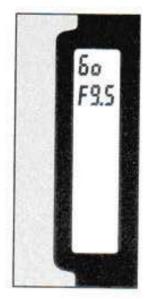
Set the mode dial to [60].

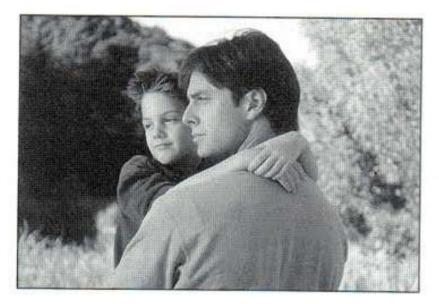
Move the select switch until [superimposes on [:].

 When the shutter release button is depressed halfway, the shutter speed and aperture setting are displayed in the viewfinder and on the LCD panel.

Portrait Program Mode







This mode is suitable for taking portrait photography.

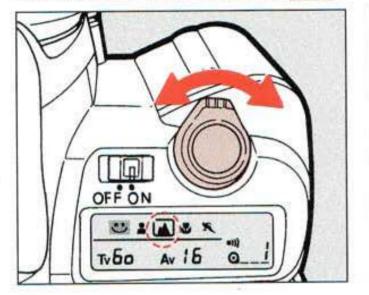
How to set

 When the shutter release button is depressed halfway down, the shutter speed and aperture setting are displayed in the viewfinder and on the LCD panel.

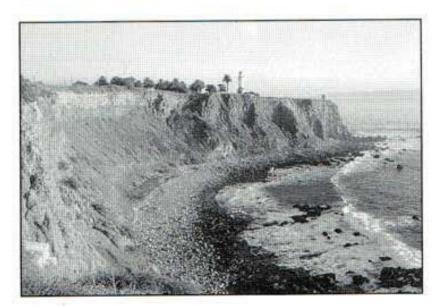
In this mode, the telephoto lens produces a portrait in crisp focus against the out-of-focus background, while the wide angle lens enables you to shoot group photography or snapshots in sharp and clear focus with the extended depth-of-field.

Landscape Program Mode









This mode is ideal for landscape photography and scenic snapshots.

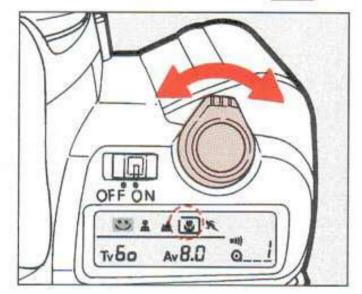
How to set

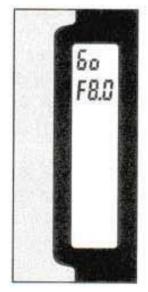
Set the mode dial to [3]. superim-poses on [.

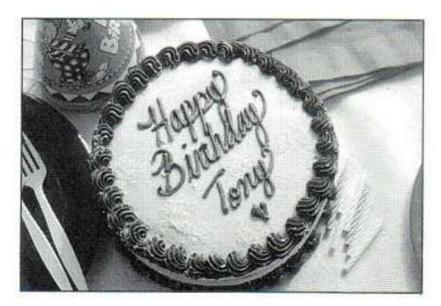
 When the shutter release button is depressed halfway down, the shutter speed and aperture setting are also displayed in the viewfinder and on the LCD panel.



Close-up Program Mode







This mode is useful for close-up photography.

This mode favors smaller apertures to maximize the depth of field, ensuring sharp focus of a close-up subject.

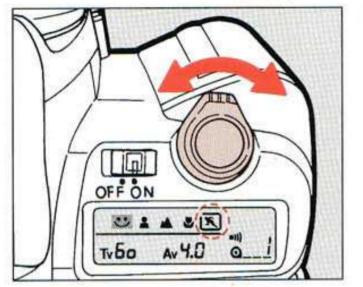
How to set

Set the mode dial to [33].

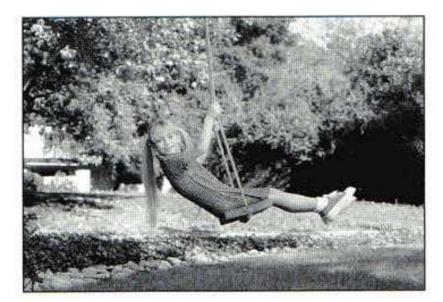
Move the select switch until [] superimposes on [].

 When the shutter release button is depressed halfway down, [[]] is displayed in the viewfinder. The shutter speed and aperture setting are also displayed in the viewfinder and on the LCD panel.

Action Program Mode 📉







This mode selects a faster shutter speed to capture a moving subject.

How to set

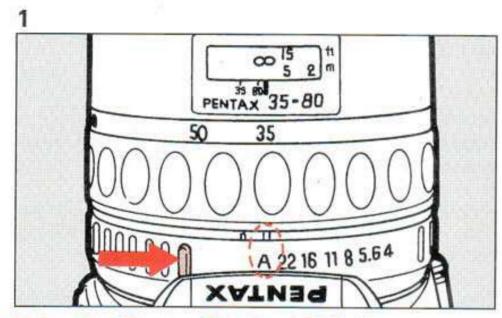
Set the mode dial to [39].

Move the select switch until [] superimposes on [].

 When the shutter release button is depressed halfway down, the shutter speed and aperture setting are displayed in the viewfinder and on the LCD panel.

This mode freezes the action and prevent blurred images. This mode is especially convenient for active photography. It is also suitable for portraits with blurred background.

(5) SELECTING AN EXPOSURE MODE

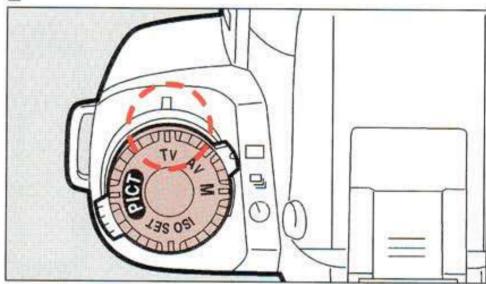


Using the Shutter-Priority AE Mode

Purpose

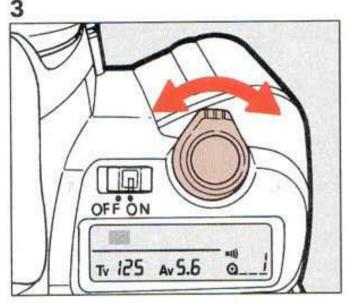
When the desired shutter speed is selected, the appropriate aperture is automatically set by the camera for a proper exposure according to the brightness of the subject. This mode is suitable for freezing the action with a fast shutter speed or capturing a flowing dynamic image with a slow shutter speed. For details on the effect of the shutter speed, see page 86.



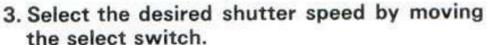


How to set

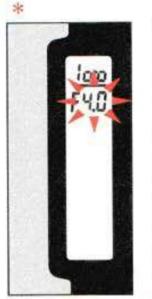
- 1. Set the lens aperture ring to the A position.
- · When the lens aperture ring is set to a position other than the A position, a correct exposure may not be obtained.
- 2. Set the mode dial to [Tv].

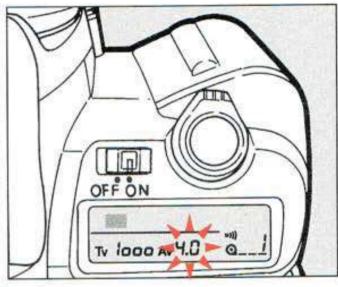






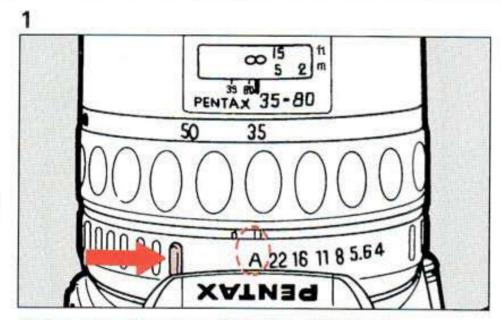
- When the shutter release button is depressed halfway down, the shutter speed and aperture indication will be displayed in the viewfinder and on the LCD panel.
- The bar underneath the shutter speed will also be displayed.





* Exposure Warning

If the subject is too bright or too dark, the aperture setting in the viewfinder blink. When the subject is too bright, choose a faster shutter speed. If it is too dark, choose a slower shutter speed. When the shutter speed indication stops blinking, you can take the picture. If both selected shutter speed and aperture blink, it means that the exposure is out of metering range, unable to obtain a correct exposure even if the shutter speed is adjusted. Select a darker subject if the subject is too bright. Use a flash if it is too dark.

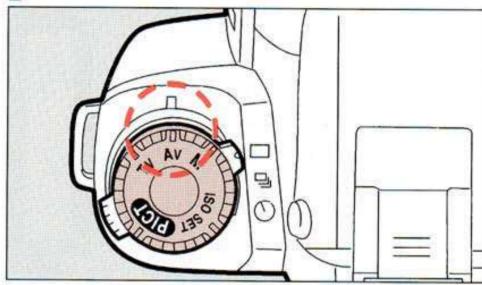


Using the Aperture-Priority AE Mode

Purpose

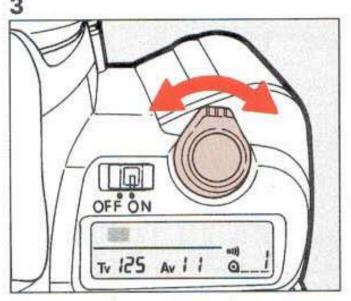
When the desired aperture is selected, an appropriate shutter speed is automatically set by the camera for a proper exposure. This mode is ideal for shooting land-scapes with increased depth of field, or a portrait against a blurred background. For details on the effect of the aperture setting, see page 87.

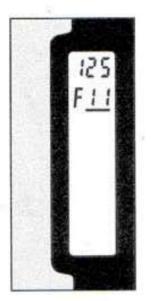


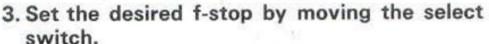


How to set

- 1. Set the lens aperture ring to the A position.
- When the lens aperture ring is set to a position other than the A position, a correct exposure may not be obtained.
- 2. Set the mode dial to [Av].

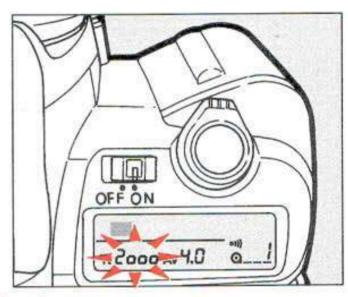






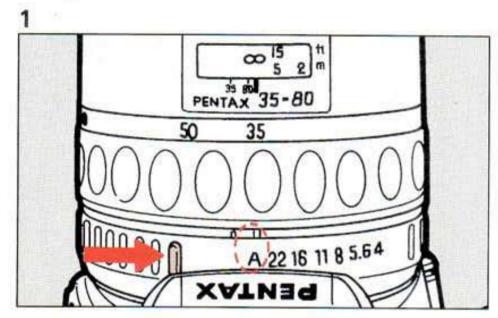
- When the shutter release button is depressed halfway down, the shutter speed and the aperture indication will be displayed in the viewfinder and on the LCD panel.
- The bar underneath the aperture indication will also be displayed.





* Exposure Warning

If the subject is too bright or too dark, the selected shutter speed will blink in the viewfinder and on the LCD panel as a warning as shown. When the subject is too bright, choose a smaller aperture, if available; when it is too dark, choose a larger aperture, if available. When the shutter speed indication stops blinking, you can take the picture. If both shutter and aperture blink, it means that the exposure is out of metering range, unable to obtain a correct exposure even if the aperture is adjusted. Select a darker subject if it is too bright, or use a flash if it is too dark.

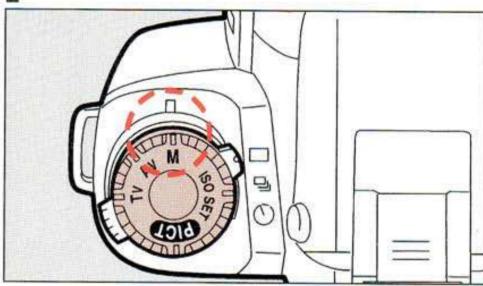


Using the Metered Manual Mode

Purpose

The manual exposure mode is a convenient exposure mode for taking pictures using the same shutter speed and aperture setting combination, or taking creatively under or overexposured photographs.

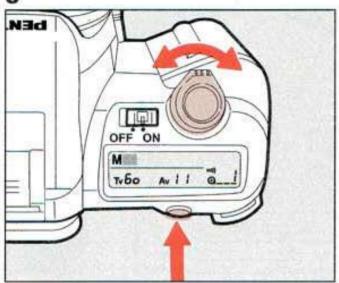




How to set

- 1. Set the lens aperture ring to the A position.
- 2. Set the mode dial to [M].
- [M] appears on the LCD panel to indicate that the Manual Exposure Mode is set.
- If a lens without the A position or an F or FA lens with the aperture set other than A position is attached, the bar graph in the view finder will blink.





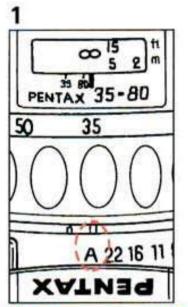


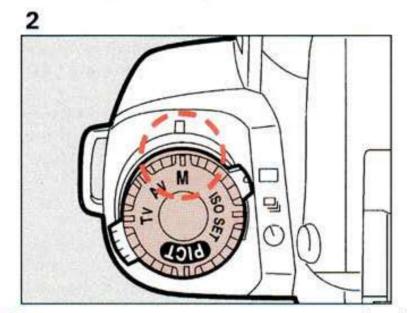
- Change the shutter speed by moving the select switch or the aperture by moving the select switch while holding down the exposure compensation button.
- To obtain the proper exposure, change the aperture setting or the shutter speed until the dot is displayed in the center of the bar graph in the veiwfinder.
- When the shutter release button is depressed halfway, the shutter speed, aperture and bar graph will be displayed in the viewfinder.
- The bar underneath the shutter speed will be displayed and the bar underneath the aperture indication will also be displayed when the exposure compensation button is depressed.

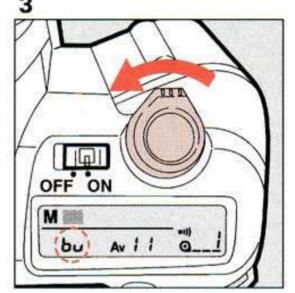
- When the dots are displayed to the [♥] side on the bar graph, it indicates overexposure and when the dots are displayed to the [♥] side, it indicates underexposure.
- Moving one dot on the bar graph indicates 0.5 step (0.5EV). However, when under or over exposure is set beyond + 3 or - 3 steps (3EV), [♠] or [♠] indicator will blink.

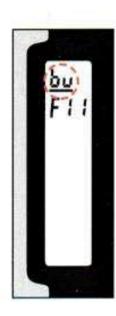
* Exposure Warning

If the subject is too bright or too dark, both shutter speed and aperture setting will blink in the viewfinder as a warning as shown. It means that the exposure is out of metering range, unable to obtain a correct exposure even if the aperture is adjusted. Select a darker subject or use a flash if it is too dark.









Bulb Exposure Mode

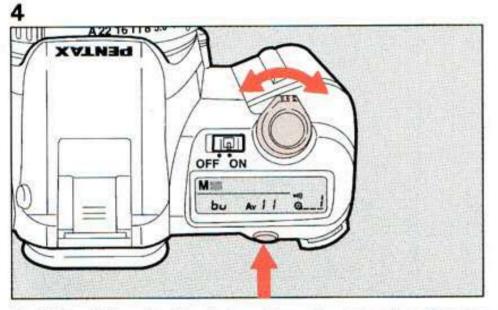
Purpose

This mode is useful for the long exposures required for shooting night scenes and fireworks. The shutter remains open as long as the shutter release button is held down.

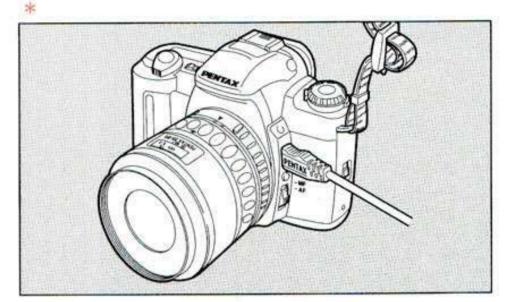
How to set

- 1. Set the lens aperture ring to the A position.
- 2. Set the mode dial to [M].
- 3. Adjust the shutter speed to slower side by moving the select switch until [bu] appears on the LCD panel.

- [M] appears on the LCD panel.
- When the shutter release button is depressed halfway, [bu] and the aperture indication appear in the viewfinder and on the LCD panel.
- The bar underneath [bu] appears in the viewfinder.

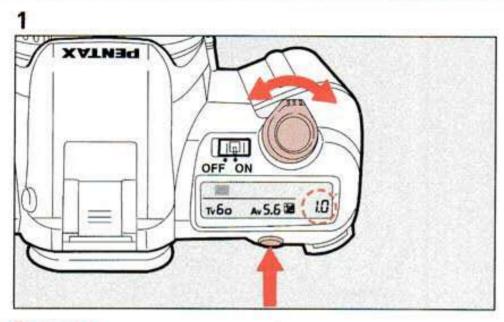


- Select the desired aperture by moving the select switch while depressing the exposure compensation button.
- Up to approx. 8 hours of time exposure are possible with a new lithium battery at room temperatures.



* When using this mode, use a steady tripod to prevent camera shake and attach the optional "Cable Switch F" after removing the Release Socket Cap F.

(5) ABOUT EXPOSURE COMPENSATION

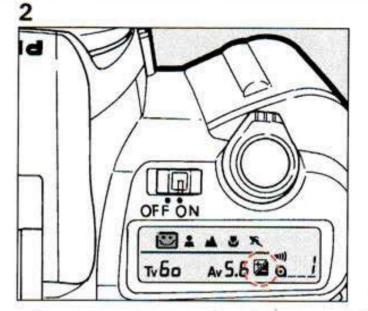


Purpose

The exposure compensation allows you to deliberately overexposure (brighten) or underexposure (darken) a subject, or compensate for difficult lighting conditions which may fool the camera's built-in exposure meter.

How to set

- While holding down the exposure compensation button, move the select switch to the desired compensation value.
- 2. The bar graph and [2] appear in the view-finder. [2] is displayed on the LCD panel.



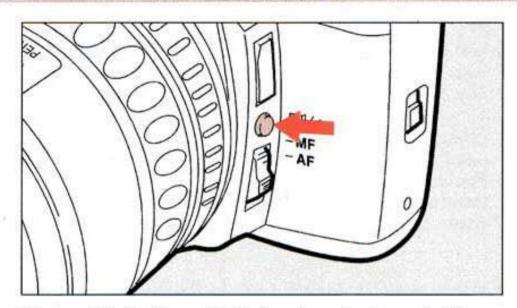


- Exposure compensation does not work in the Metered Manual Mode and Bulb Exposure Mode.
- The exposure compensation range is -3EV to +3EV in 0.5EV stops.
- Moving one dot on the bar graph indicates 0.5EV step.
 However, when under or over exposure is set beyond
 +3 or 3 steps (3EV), the dot will blink.

How to cancel

Set the compensation value to [0]. The exposure compensation cannot be canceled even if the power is turned OFF or any other exposure mode is set.

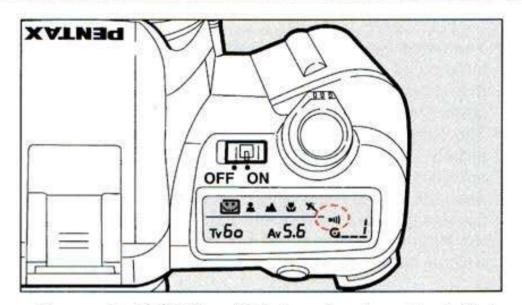
(6) TURNING OFF THE AUDIBLE PCV SIGNAL



The audible In-Focus PCV signal can be turned off.

How to cancel

Depress the multi-function button to erase [***] from the LCD panel.



- Change the PCV Signal Mode only when the built-in flash is retracted. If the PCV Signal Mode is switched with the built-in flash popped up, the flash mode will be changed.
- The audible PCV signal is not turned off when the Self-Timer is in operation.
- To turn the audible PCV signal back on, depress the multi-function button to make the [***] appear on the LCD panel.

(7) ADVANCED OPERATION FOR THE BUILT-IN FLASH (RTF)

When using the Picture Mode

- The camera automatically chooses an optimum combination of shutter speed and aperture according to the subject brightness, allowing you to take a flash photograph with ease.
- The shutter speed automatically changes to approximately 1/100 sec. or to a slower speed which does not cause camera shake. The slowest shutter speed depends on the focal length of the lens fitted to the camera. When a Pentax non-autofocus lens is used or the Action Program Mode is set, the camera uses the shutter speed of 1/100 second.

When using the Shutter-Priority AE Mode

- Shutter speeds slower than 1/100 of second can be set.
- In this mode, the aperture automatically changes according to the ambient brightness, making flash photography easy.

When using the Aperture-Priority AE Mode

• In this mode, the shutter speed automatically changes with the ambient brightness, making flash photography easy. The shutter speed changes in the range of 1/100 sec. to a slower shutter speed which does not cause camera shake. The slowest shutter speed depends on the focal length of the lens in use. When a Pentax non-autofocus lens is used or the Action Program Mode is set, the camera uses the shutter speed of 1/100 second.

Metered Manual Mode

 When using the built-in flash in the Metered Manual Mode, any combination of aperture and shutter speed slower than 1/100 can be set. In this mode, the exposure of the background can be controlled by the manual exposure while the flash properly exposes the foreground subject.

Calculating the flash effective distance according to the camera-to-subject distance.

Maximum flash distance = Guide Number ÷ Selected aperture

Minimum flash distance = Maximum flash distance ÷ 5 *

When the distance to the subject is less than 0.7m (2.3ft), the flash cannot be used. If the flash is used within that distance, it causes vignetting in the picture corners, light is distributed unevenly and the picture may be overexposed.

 The value 5 used in the formula above was obtained from the built-in flash.

The guide number (GN) depends upon the film speed used as shown below.

ISO25 → GN5.5	ISO200 → GN15.6
ISO50 → GN7.8	ISO400 → GN22
ISO100 → GN11	

If an ISO100 film is used at an aperture of f/2.8, the flash effective distance is obtained as follows:

Guide Number (11)
$$\div$$
 f/2.8 = 3.9m
3.9 \div 5 = 0.8m

Thus, the flash effective distance is from approx. 0.8m to 3.9m.

Calculating the aperture according to the camera-to-subject distance

Aperture = Guide Number ÷ Camera-to-subject distance

If the calculated aperture value is different than an indicated f-stop on the aperture ring, for instance f/3, choose the next smallest aperture ring number (f2.8 in this case).

Calculating the camera-to-subject distance in the Shutter-Priority AE Mode

The camera-to-subject distance can be calculated using the above mentioned formula. However, in the Shutter-Priority AE Mode, the-camera-to-subject distance will change depending on what aperture is set.

COMPATIBILITY OF F AND FA LENSES WITH THE BUILT-IN FLASH

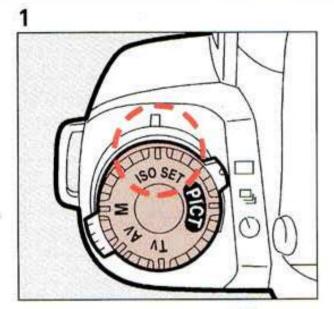
 $[\bigcirc = \text{compatible } \times = \text{incompatible because of vignetting}]$

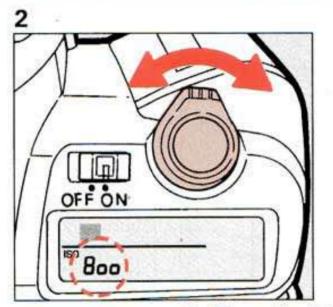
Lens name	Compatibility
F Fish-Eye Zoom 17-28mm f / 3.5-4.5	×
F.Zoom 24-50mm f/4	△ * 1
FA Zoom 28-70mm f / 4	0
FA*Zoom 28-70mm f/2.8	×
FA Zoom 28-80mm f / 3.5-4.7	0
F Zoom 28-80mm f/3.5-4.5	△ * 2
FA Zoom 28-105mm f / 4-5.6	△ * 3
FA Zoom 28-200mm f / 3.8-5.6AL	△*4
F Zoom 35-70mm f / 3.5-4.5	0
F Zoom 35-80mm f / 4-5.6	0
F Zoom 35-105mm f / 4-5.6	0
F Zoom 35-135mm f / 3.5-4.5	0
FA Zoom 70-200mm f / 4-5.6	0
F Zoom 70-210mm f / 4-5.6	0-
FA*Zoom 80-200mm f / 2.8	△ * 5
F Zoom 80-200mm f / 4.7-5.6	0
F Zoom 100-300mm f / 4.5-5.6	0

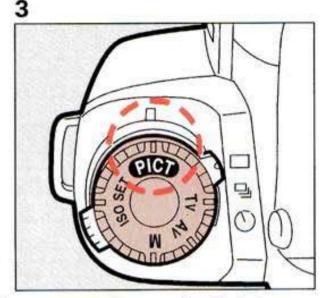
Lens name	Compatibility
FA Zoom 100-300mm f / 4.5-5.6	Ö
F or FA* Zoom 250-600mm f/5.6	×
FA20mm f / 2.8	×
FA*24mm f/2	×
F or FA 28mm f / 2.8	0
F or FA 50mm f / 1.4	0
F or FA 50mm f / 1.7	0
FA*85mm f/1.4	0
F or FA 135mm f / 2.8	0
FA*200mm f/2.8	0
FA*300mm f/2.8	×
F or FA*300mm f / 4.5	×
F or FA*600mm f/4	×
F or FA MACRO 50mm f/2.8	0
F or FA MACRO 100mm f / 2.8	0

- *1 : Focal lengths between 28-50mm lens, vignetting will not occur. But the inappropriate lens warning will appear at focal lengths between 24-35mm.
- * 2 : Vignetting will occur at focal lengths between 28-35mm.
- * 3 : Vignetting will occur at focal lengths between 28-35mm. With the focal length set at 35mm, it will occur when the camera-to-subject distance is closer than 1.5m.
- * 4 : Vignetting will occur at focal lengths between 28-70mm.
- * 5 : Vignetting will occur at focal lengths between 80-90mm.

(8) SETTING THE FILM SPEED (ISO) MANUALLY







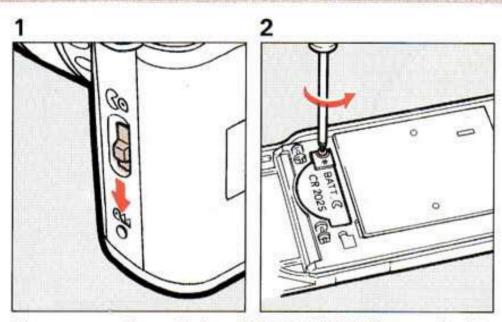
This camera automatically reads the film speed from the film's DX code. However, the film speed setting can be changed. If you use a non-DX coded film, set the film speed manually.

How to set

- Set the mode dial to [ISO SET].
- Move the select switch until the desired ISO is displayed on the LCD panel.

- After the ISO is set, set the mode dial to any other position other than [ISO SET].
- To change the ISO, turn the select switch to the left for a smaller number (lower film speed, or right for a larger number (higher film speed).
- The shutter cannot be released with the mode dial set at \[ISO SET \].
- [ISO] is displayed when the film speed is set manually.

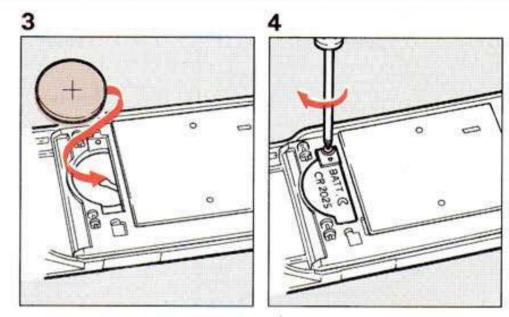
(9) INSTALLING THE BATTERY IN THE DATA BACK



If you purchased the DATE MODEL, read this section.

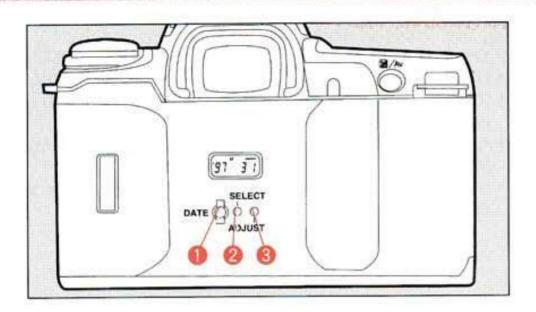
Replace the battery when the data information on a picture or the LCD panel becomes weak or invisible. The battery will last for approx. 3 years.

- Open the back cover. Ensure that a film is not loaded.
- Loosen the battery cover fixing screw with a phillips head screwdriver, and then remove the battery chamber cover.
- Replace the old battery with a new battery with the + side facing up.
- Reinstall the battery chamber cover, and tighten the battery chamber fixing screw.



- If the data indication does not appear on the LCD panel, it means that the battery has not been installed properly or the battery voltage is too low.
- After the battery is replaced, adjust the data by the following adjustment procedures described on the next page.
- The data back uses one 3V lithium battery, type CR2025.

(10) ADJUSTING THE DATA





If you purchased the DATE MODEL, read this section.

- DATE button
- SELECT button
- ADJUST button

Note:

Carefully press the button with the protrusion part of the camera's strap clamp.

Do not press the buttons with an object having have a sharp tip.

Adjusting the year / month / day

- Press the SELECT button to make the year, month or day you want to change blink.
- 2. Change the date with the ADJUST button
- 3. Press the SELECT button @ to stop the digit from blinking, after you have changed the date. The adjusted date has been entered.
- The digit increases by one each time the ADJUST button is depressed. Holding the button for about 2 to 3 seconds will change the digits continuously.

Adjusting the hour/minute

- 1. Press the SELECT button 0 to make the hour, minute or second (:) you want to change blink.
- 2. Change the data (hour or minute) with the ADJUST button 6.
- 3. To change the second (:), press the SELECT button until ":" will blink. And press the ADJUST button in sync with a time signal to set the second to zero.
- Press the SELECT button to stop the adjusted hour/minute from blinking.
- The digit increases one each time you press the ADJUST button. Holding the button for 2 to 3 seconds will change the digits continuously.

Operational precautions

- The working temperature for data printing is 0-50°C.
- Use DX-coded films with ISO rating from 25 1600.
- If high-speed film with an ISO rating of 1000 1600 is used, the imprinted characters may blur.
- If film with ISO rating of 50 or slower is used, the printed characters may be dark or dim.
- If you release the shutter while the blinking data is being corrected, the data cannot be imprinted.

(11) USING A PENTAX DEDICATED EXTERNAL FLASH

If the built-in flash is not powerful enough, a Pentax dedicated external flash should be used.

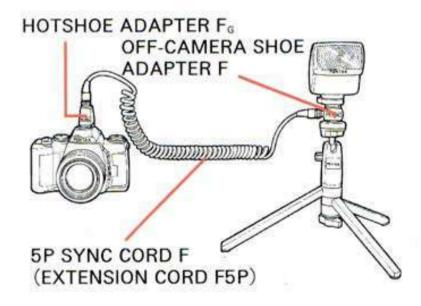
Using the TTL Auto Flash Mode

- Remove the hot shoe cover F_c and attach a Pentax dedicated flash unit.
- 2. Turn ON the flash.
- 3. Set the flash unit to the TTL Auto Mode.
- 4. Ensure that the flash is fully charged.
- Proceed as if the built-in flash were being used.
- When the flash is fully charged, the ready lamp on the flash unit lights up. When the shutter release button is depressed halfway down, [4] appears in the viewfinder indicating the flash is ready.

Using the built-in flash and the external flash simultaneously

An external flash cannot be used when the built-in flash is in its popped up position. When the built-in flash and the external flash are used simultaneously, use the following optional accessories.

- · Hot Shoe Adapter Fg
- Off-Camera Shoe Adapter F
- Extension Cord F5P



AF500FTZ and AF330FTZ

- These flash units feature a built-in infrared spotbeam to assist the autofocus system in dim light and lowcontrast conditions.
- The auto zoom function will automatically adjust the angle of discharge according to the lens focal length only when an F or FA lens is in use.
- The AF500FTZ features a wireless slave-sync flash function.
- The flash effective range appears on the LCD panel only when an A, F, or FA lens is in use.
- Multiple flash burst on a single frame is possible with the AF500FTZ.
- These flash units feature the contrast-control-sync flash. See page 79 for more details.
- In the Picture Mode, Shutter-Priority AE, or Aperture-Priority AE, the TTL Auto Flash Mode will be set automatically even if the flash is set to the Manual Mode.
- When the flash is charged and left unused for about 3 minutes, the power automatically switches off to save battery power. Depressing the shutter release button halfway down will restart charging of the flash units.

AF240FT and AF400FTZ

- These flash units feature a built-in infrared spotbeam to assist the autofocus system in dim light and lowcontrast conditions.
- In the Picture Mode, Shutter-Priority AE, or Aperture-Priority AE, the TTL Auto Flash Mode will be set automatically even if the flash unit is set to Manual Mode.
- When the flash unit is charged and left unused for about 5 minutes, the power will automatically switch off to save battery power. Depressing the shutter release button halfway down will restart charging of the flash unit.

AF200T, AF220T, AF280T, and AF400T

• If the TTL Auto Mode is selected, these flash units can be used for daylight-sync shooting, because the shutter speed is adjusted according to the ambient brightness. The slower shutter speed varies according to the lens focal length. The shutter speed varies within the shutter speed range of 1/100 second to a slower speed which does not cause camera shake. However, when a non-autofocus lens (A-lens) is in use, the shutter speed is set to 1/100 second. The aperture value will also be fixed but will vary depending on what ISO film is loaded. • When using the Three-Level Auto (red, green, and yellow settings) Mode, the aperture value is fixed as shown in the table. When the flash is fully charged, the shutter speed varies within the shutter speed range of 1/100 of second to a slower speed which does not cause camera shake. The slowest shutter speed varies according to the lens focal length. When a non-autofocus (A-lens) lens or the Action Program Mode is in use, the shutter speed will be set to 1/100 of second.

	AF200T	AF280T	AF400T
Red	f/2.8	f/4	f/4
Green	f/5.6	f/8	f/8
Yellow	-		f/11

with ISO 100

Notes on Pentax dedicated flash units

When the built-in flash is used in combination with a Pentax dedicated flash unit, if the trailing-shutter-curtain-sync flash mode is set for the dedicated flash unit, the built- in flash also operates in the trailing-shutter-curtain-sync flash mode. Ensure that both flash units are fully charged before releasing the shutter.

Contrast-Control-Sync Flash Photography

Using the AF330FTZ or AF500FTZ in combination with the built-in flash allows twin flash photography (contrast-control-synch flash photography). This is based on the difference between the amount of light discharged from two units.

- Put the AF500FTZ or AF330FTZ in the Contrast-Control-Sync Flash Mode. See the flash connection on page 77.
- Ensure that both flash units are fully charged and then shoot.
- The ratio of the amount of flash light is 1 (built-in flash): 2 (dedicated flash unit).
- Do not combine an accessory with a different number of contacts such as a "Hot Shoe Grip" as a malfunction may occur.
- In the Contrast-Control-Sync Flash Mode, the top flash sync speed is 1 / 60 of second.

Multi-burst flash with the Pentax dedicated flash

When discharging more than 2 Pentax dedicated flashes, make sure that they are of the same type, combine the Type B with Type C or Type D with Type E. (refer to the overview of Flash Function on page 80. The Built-in flash can be operated with any type of Pentax TTL dedicated flash unit.

Overview of Flash Function

CAMERA FUNCTION	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E
After the flash is charged, the camera automatically switches to the flash-sync speed.	0	0	0	0	0
Automatic aperture setting in the Picture Mode or Shutter-Priority AE Mode	0	0	0	O*1	O*1
Flash confirmation in the viewfinder		0	0		×
TTL auto flash	0	0	Ö	0*2	×
Slow-speed sync in the Shutter-Priority AE Mode or Metered Manual Mode	0	0	0	0	○*3
AF spotbeam	×	0	0	×	×
Trailing-shutter-curtain sync flash (* 4)	*5	O	0	×	×
Contrast-control flash mode (* 4)	×	0	0	- ×	×

TYPE A: Built-in flash

TYPE B: AF500FTZ(*6), AF330FTZ

TYPE C: AF400FTZ, AF240FT

TYPE D: AF400T, AF280T, AF220T, AF200T,

AF080C, AF140C, AF200SA

TYPE E : AF200S, AF160, AF140,

Notes:

* 1. When using a Type D flash (except AF200S_A and AF220T) in the MS (Manual Sync) or M (Manual) Mode or when using a Type E flash, set the camera's exposure mode to the Aperture-Priority AE Mode, Metered Manual or Bulb. The Picture Mode and Aperture-Priority AE Modes cannot be used because the actual required aperture value may change.

- * 2. Only the AF200S, flash does not operate.
- * 3. Only the Metered Manual Mode can be used.
- * 4. The shutter speed is 1/60 of second or slower.
- * 5. Trailing-shutter-curtain sync flash combined with TYPE B or TYPE C flash.
- * 6. Multi-burst and slave-sync flash are possible.

Using other type of a flash

Use of non-Pentax flash units may damage the camera. For the best results, use a Pentax dedicated flash unit.

(12) DAYLIGHT-SYNC SHOOTING



Without Daylight-Sync



With Daylight-Sync

Purpose

In daylight conditions, when a portrait picture is taken with a person's face cast in shadow, discharging the flash will eliminate the shadow.

Daylight-sync photography is obtained in the same manner as the normal flash photography, so you simply depress the shutter release button.

- If the background is too bright, it may be overexposed.
- When taking a daylight-sync photograph in the Picture Mode, the flash may not discharge even if the flash is in the popped-up position. Before shooting, confirm that [A] is not displayed on the LCD panel.

(13) SLOW-SPEED-SYNC SHOOTING



Purpose

It is possible to balance the exposure of a foreground subject against a dimly-lit background by using the flash to properly expose the foreground subject and a slow-shutter-speed to expose the low light background.

How to set

With the Metered Manual Mode set

- Depress the flash pop-up button to activate the built-in flash.
- 2. Set the camera's exposure mode to the Metered Manual Mode.
- Select an appropriate shutter speed(slower than 1/100 of second) and aperture combination for a correct exposure.
- 4. Release the shutter.

How to set

With the Shutter-Priority AE Mode set

- 1. Set the camera's exposure mode to the Shutter-Priority AE Mode.
- 2. Set the desired shutter speed.
- If the aperture in the viewfinder and the LCD panel blink, a correct exposure will not be obtained for the background. Adjust the shutter speed until the blinking stops.
- 3. Depress the flash-pop up button to activate the built-in flash.
- 4. Release the shutter.
- In the slow-speed-sync shooting, use of a tripod is recommended to prevent camera shake.

(14) ACCESSORIES (OPTION)

A number of dedicated accessories are available for this camera.

Cable Switch F

A shutter release cord designed for use with the MZ-50/ZX-50, MZ-10/ZX-10, MZ-5/ZX-5, Z-70/PZ-70, Z-1/PZ-1, Z-20/PZ-20, Z-10/PZ-10.

Magnifier FB

A viewfinder accessory for magnifying the central area of the viewfinder.

AF500FTZ

A TTL Auto Zoom flash with a built-in AF spotbeam and large guide number of 50 in meters (ISO 100). It features the slave-sync flash function, multiple flash burst, contrast-control-sync flash, leading/trailing-curtain-sync flash mode.

AF330FTZ

A TTL Auto Zoom flash with a built-in AF spotbeam and guide number of 33 in meters (ISO 100). It features contrast-control-sync flash, leading/trailing-curtain-sync flash mode.

AF220T

A TTL Auto flash with the guide number of 22 in meters (ISO 100). It features the bounce-flash.

Hot Shoe Adapter Fg and Extension Cord F5P and Off-Camera-Shoe Adapter

The adapters and cord which allow the AF220T, AF240FT, AF330FTZ, AF400FTZ and AF500FTZ to be used off the camera, while maintaining full electronic coupling to the camera.

Macro Flash AF140C

A TTL macro flash unit with a guide number of 14 in meters (ISO 100).

Refconverter A

Right angle finder which attaches to the grooves on both sides of the viewfinder. The viewfinder magnification is able to switch from 1X to 2X.

Filters

Skylight, Cloudy, UV, Y2, O2, R2, and Circular Polarizing Filter are available. Each filter is available in sizes of 49mm, 52mm, 67mm and 77mm.

AA Battery Pack Fg

The battery pack which takes four AA batteries can attach at the bottom of the camera, instead of using the lithium batteries.

If the MZ-50 is being used while connected to Cable Switch F and/or Extension Cord F5P in an area where a high electromagnetic field is discharged, the battery warning indicator () may appear and start blinking. If this condition arises, the shutter cannot be released.

Notes on accessories

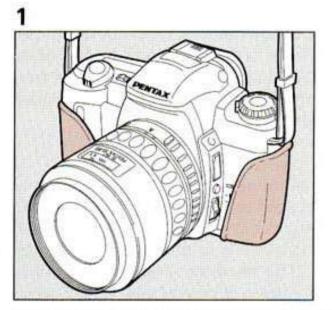
- The following conditions, a correct exposure may not be obtained because the camera always set the maximum aperture even if you set your desired f/stop.
- When a lens without the A position on the aperture ring is attached.
- When an F or FA lens with the aperture set to a position other than the A position is used.
- Above mentioned inconvenience will occur when an F
 FA 85mm Soft lens or FA 28mm Soft lens is attached because these lenses do not have the A position on the lens aperture ring.

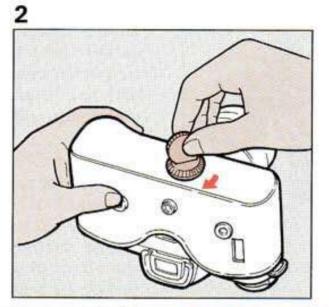
When the following accessories are combined with this camera, a correct exposure may not be obtained.

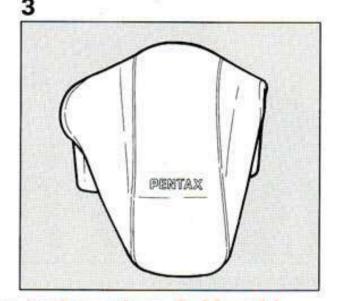
Accessories for close-up photography
Auto extension tube set K
Auto extension tube K 50mm
Auto extension tube 100mm
Helicoid extension tube K
Auto bellows-A
49mm and 52mm Reverse Adapter K
Extension tube K
Microscope adapter K

Mount adapters
Adapter K for 645 lens
67 lens adapter K

(15) CAMERA CASE







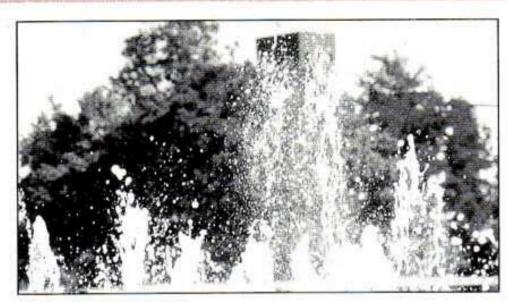
The soft case is available as an option and consists of a front and a back case.

- Open the front case and place the camera body in the back case.
- Fasten the back case to the camera body by tightening the fitting screw in the tripod socket.
- 3. Attach the front case.
- Choose one of the front cases in accordance with the table to the right.
- The back case F_G is the same back case indicated with the Soft case S_rM and L.

Front case comes in three sizes, S, M and L

Case	Applicable F, FA-lens		
F _G S	20mm, 28mm, 50mm f/1.4, f/1.7, Fish- Eye Zoom 17-28mm, Zoom 35-80mm		
F _G M	24mm, Macro 50mm, 135mm, Zoom 28- 70mm f / 4, Zoom 28-80mm, Zoom 28- 200mm		
F _G L	85mm f / 1.4, Macro 100mm, Zoom 28- 105mm, Zoom 70-200mm, F Zoom 80- 200mm		

(16) EFFECT OF APERTURE AND SHUTTER SPEED



High shutter speed



Slow shutter speed

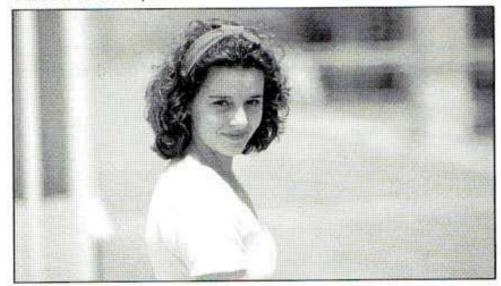
A correct exposure is established by a combination of shutter speed and aperture setting according to the subject brightness. There are many correct combinations of shutter speed and aperture for a particular subject brightness. Different shutter speed and aperture settings produce different effects.

Effect of Shutter Speed

The shutter speed determines the film exposure time, or the length of time that light is allowed to strike the film. If the subject is moving the image will be blurred when a slow shutter speed is used. It is possible to enhance the effect of motion, (The movement of a wave or waterfall) by intentionally using a slower speed. Choosing a high shutter speed will allow the image of a moving subject to be frozen. A higher shutter speed also helps prevent camera shake.



Closed-down aperture

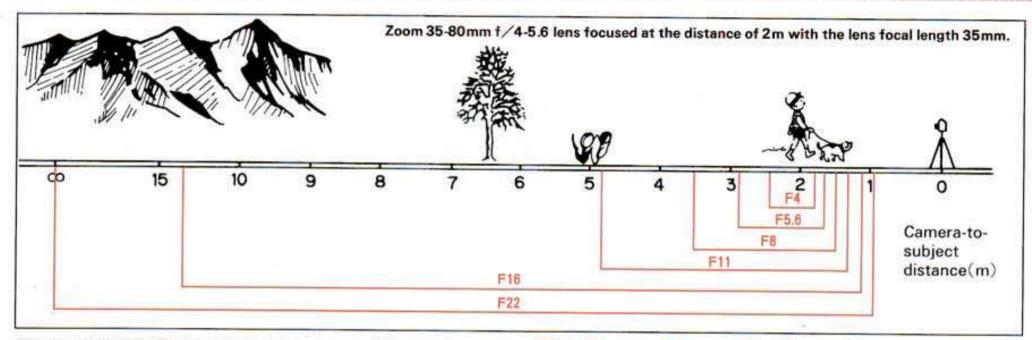


Open aperture

Effect of Aperture

The aperture increases or reduces the amount of reflected light from an object which passes through the lens, controlling how much light strikes the film. If the aperture is opened up to increase the amount of light, objects in front of and behind an in-focus subject will not be focused. That is, the range of focus (depth of field) becomes small. If the aperture is closed down to reduce the amount of light, the depth of field increases. For instance, if you shoot a person against a landscape with the aperture open, the landscape in front of and behind the person will be blurred, making the person appear to rise out of the landscape. By contrast, closing down the aperture increases the in-focus range.

(17) DEPTH OF FIELD

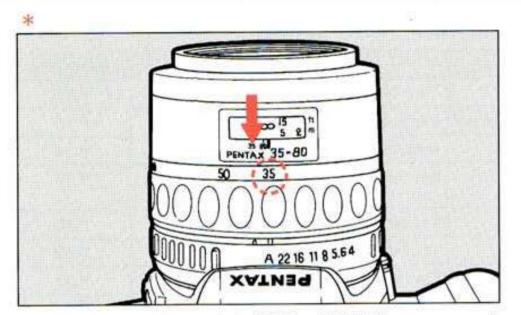


Depth of field refers to the range around the optimum focusing point of the subject in which the elements at different distances are in focus. The depth of field increases as the aperture is closed down, the focal length of the lens becomes shorter, or the subject is positioned farther away.

The Range Allowed for Focusing

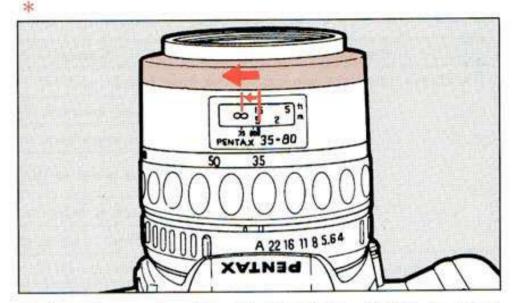
The in-focus range varies depending on the aperture in use. Zoom lenses do not have a depth-of-field scale for mechanical considerations.

(18) INFRARED INDEX



When infrared film and an "R2" or "O2" filter are used, the focal point is different from that of ordinary film exposed in visible light. The autofocus system cannot compensate for this difference automatically.

- 1. Set the focus mode switch to [MF]
- Focus on a subject manually and turn the focusing ring to the left by the distance indicated on the infrared index.



- * As shown in the illustration, if 35 is read from the zoom scale, adjust the distance scale to 35 on the infrared index (red line).
- In the autofocus mode, the focus cannot compensate for infrared pictures.
- To set the proper exposure level for infrared pictures, refer to the instructions accompanying the film. The Auto Exposure Mode does not give a correct exposure. Use the Metered Manual Mode.

IV OTHERS TROUBLESHOOTING

What appears troublesome may be easily remedied. Here are some problems that may occur and their remedies. Before contacting a Pentax service center, check the following items.

Symptoms	Causes	Remedies	Reference
The shutter does not release.	The main switch is [OFF]	Turn ON the main switch.	P.20
	The low battery warning [appears.	Replace the battery.	P.14
	The battery is improperly installed.	Install the battery properly.	P.14
	The mode dial is set at [ISO SET].	Set the mode dial to the another position.	P.73
	Self-timer mode is being set.	Cancel the self-timer mode.	P.48
	The built-in flash is being charged.	Wait until the flash is fully charged.	P.39
Indicators do not appear on the LCD panel.	The main switch is [OFF].	Turn ON the main switch.	P.20
	No battery has been installed.	Install the battery.	P.14
	The battery is improperly installed.	Install the battery properly.	P.14
	The battery is dead.	Replace the battery.	P.14
The camera does not focus.	AF frame is not placed over the subject.	Move the camera until the AF frame [[]] covers the subject.	P.34
	The subject is too close.	Increase the camera-to-subject dis- tance.	P.35
	The focus mode is set to [MF].	Set the focus mode switch to [AF].	P.33
	The subject is difficult to autofocus.	Focus manually by using the matte field.	P.51

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Symptoms	Causes	Remedies	Reference
Pictures are overexposed.	A non-A position lens is used. The subject is too close or difficult to autofocus.	Attach an A, F, or FA lens.	P.10,P27,P60 P.51
[O] blinks in the viewfinder.		Focus manually by using the matte field.	
The built-in flash does not charge.	The battery is dead.	Replace the battery.	P.14
The power zoom system does The camera does not have the power Push the power zoom ring forward unt zoom function. The camera does not have the power the power zoom ring forward unt the words [POWER ZOOM] appear.		P.31	

SPECIFICATIONS

Туре	TTL autofocus, auto-exposure 35mm SLR with built-in TTL auto flash (RTF)
Format —	- 24x36mm
Usable Film	- 35mm perforated cartridge film. DX-coded film with ISO 25-5000; non-DX coded films with ISO 6-6400
Exposure Modes	Picture Mode (Green Operation Mode, Portrait Program Mode, Landscape Program Mode, Close-up Program mode, Action Program Mode), Aperture-Priority AE Mode, Shutter-Priority AE Mode, Metered Manual Mode, Bulb Mode, TTL Flash Mode
Shutter	Electronically controlled vertical-run focal-plane shutter, Electromagnetic release, Speed range (1) Auto 1/2000-30 sec.(stepless),(2) Manual 1/2000-30 sec.(3) Bulb, Shutter lock by setting Main switch in OFF position.
Lens Mount	Pentax K _{AF} bayonet mount (K-mount with AF coupler, lens information contacts)
Compatible Lens	Pentax K _{AF2} , K _{AF} , and K _A lenses are usable. Autofocus is possible using AF Adapter with K _A -mount lenses. With the K-mount lens attached, only the maximum aperture can be used.
Autofocus System	TTL phase-matching autofocus system, AF operational brightness range: EV0 to 18(at ISO 100 with f / 1.4 lens), Focus lock available using shutter release button, Focus Mode: AF (predictive AF provided), Manual [MF]
Viewfinder	Pentamirror finder, Natural-Bright-Matte focusing screen, Field of view:92%, Magnification 0.77(with 50mm lens at ∞), Diopter: -1 diopter, Autofocus frame
Viewfinder Indication	Focus Information: In-focus (Green lamp [] is lit), front or back focus signals and unable-to-focus indicator (Green lamp blinks), Shutter speed indication, Aperture indication, Flash ready indication [] is lit, Bar graph(exposure compensation), Over or Under exposure indication in Metered Manual Mode, [] exposure compensation indication,
External LCD panel — Indication	- [M] = Metered Manual Mode, [□] = Green Operation Mode, [□] = Portrait Program Mode, [□] = Landscape Program Mode, [□] = Close-up Program Mode, [□] = Action Program Mode, Shutter speed indication, Aperture indication, [□] = Built-in flash ready indication, [□] = blinking slowly flash recommended warning, [□] = blinks rapidly Inappropriate lens warning, [□] = Red-eye reduction flash mode, [□] = Automatic flash function, ISO indication, [□] = Film status information, [□] = Battery exhaustion warning, Exposure counter, [□] = PCV signal indication, [□] = Exposure compensation, Exposure compensation value

Electronically-controlled type with delay time of 12 sec. Start by depressing of shutter release button, Self-timer Operation confirmation: By PCV beep tone. Cancelable after operation Instant-return mirror with AF secondary mirror Mirror Film advances automatically to 1st frame after back cover is closed. Film information window is provided Film Loading Auto wind rewind by built-in motor. Consecutive or Single advance mode, Approx.2 Film Wind & Rewind frames/sec.(consecutive mode), Auto rewinding starts at end of roll, Film rewind/completion of rewinding is displayed on the LCD panel. Mid-roll rewind button will rewind film in mid-roll TTL multi(2)-segment metering, Metering range from EV1 to EV17.5 at ISO100 with 50mm f/1.4 lens **Exposure Meter** Exposure Compensation: ± 3EV in 0.5EV step increments Series-control, Retractable TTL Auto Flash (RTF), Guide number:11 (ISO100/m), Illumination angle cov-Flash ers 28mm lens angle of view, Flash-sync-speed in the range from 1/100 sec. to a slower speed, Day-lightsync flash, Slow-speed-sync flash, Contrast-control-sync flash (ISO range = 25 - 400), Automatic flash function. Red-eve reduction flash function Hot shoe with X-contact with couples with Pentax dedicated auto flashes, ISO range = 25-800 Flash sync Two 3V lithium batteries (CR2 or equivalent) Power Source Battery exhaustion symbol [is lit (blinking when the shutter is locked; no indication on the right-hand **Battery Exhaustion**

 $\textbf{Dimension and Weight-} 135.0 \text{mm}(W) \\ x 90.5 \text{mm}(H) \\ x 62.5 \text{mm}(D) \\ (5.3\text{"}x 3.6\text{"}x 2.5\text{"}) \\ 345 \\ g (12.2 \text{ oz}) \\ \text{body only without batteries} \\ (4.2 \text{ oz}) \\ \text{body only without batteries} \\ \text{body only without batteries} \\ \text{body only without ba$

Date model: Crystal quartz controlled LCD with digital clock, auto calendar up to 2019. 7 segment, 6-digit LCD display

Power source 3V lithium battery (CR2025 or equivalent)

edge of the viewfinder.)

Number of prints Approx. 5000

Warning

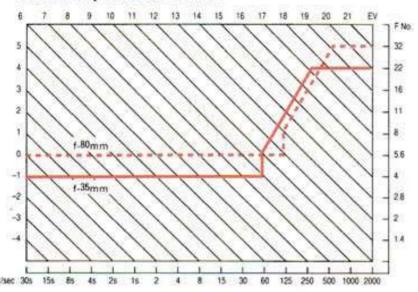
Dimension and Weight 135. 00mm (W) x 90.5mm (H) x 62.5mm (D) (5.3" x 3.6" x 2.5") 360g (12.6oz) body only without batteries

Supplied Accessories — Hot Shoe Cover Fc, Release Socket Cap F, Camera Strap Fc, Eye Cup FH, Finder Cap

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

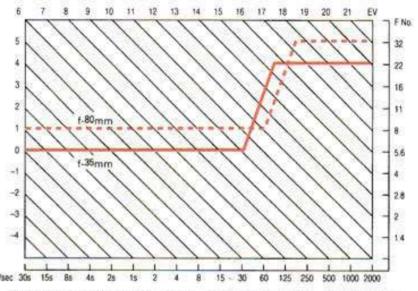
PROGRAM LINE

Green Operation Mode



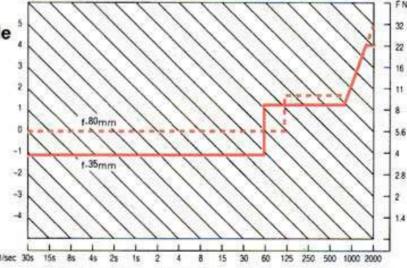
At ISO 100 with F35 - 80mm f / 4 - 5.6 lens

Landscape Program Mode



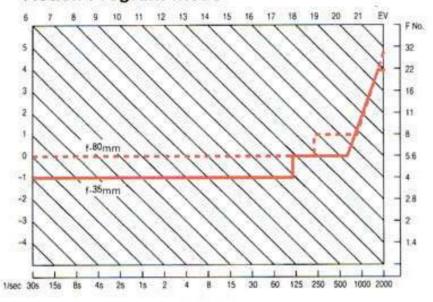
At ISO 100 with F35 - 80mm f / 4 - 5.6 lens





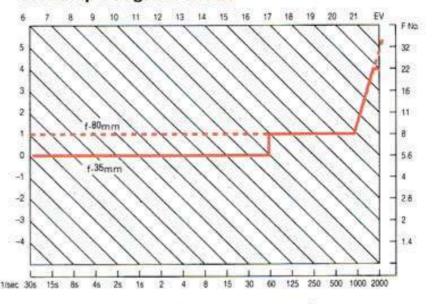
At ISO 100 with F35 - 80mm f / 4 - 5.6 lens

Action Program Mode



At ISO 100 with F35 - 80mm f / 4 - 5.6 lens

Close-up Program Mode



At ISO 100 with F35 - 80mm f / 4 - 5.6 lens

WARRANTY POLICY

All Pentax cameras purchased through authorized bona fide photographic distribution channels are guaranteed against defects of material or workmanship for a period of twelve months from date of purchase. Service will be rendered, and defective parts will be replaced without cost to you within that period, provided the equipment does not show evidence of impact, sand or liquid damage, mishandling, tampering, battery or chemical corrosion, operation contrary to operating instructions, or modification by an unauthorized repair shop. The manufacturer or its authorized representatives shall not be liable for any repair or alterations except those made with its written consent and shall not be liable for damages from delay or loss of use or from other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that the liability of the manufacturer or its representatives under all guarantees or warranties, whether expressed or implied, is strictly limited to the replacement of parts as hereinbefore provided. No refunds will be made on repairs by non-authorized Pentax service facilities.

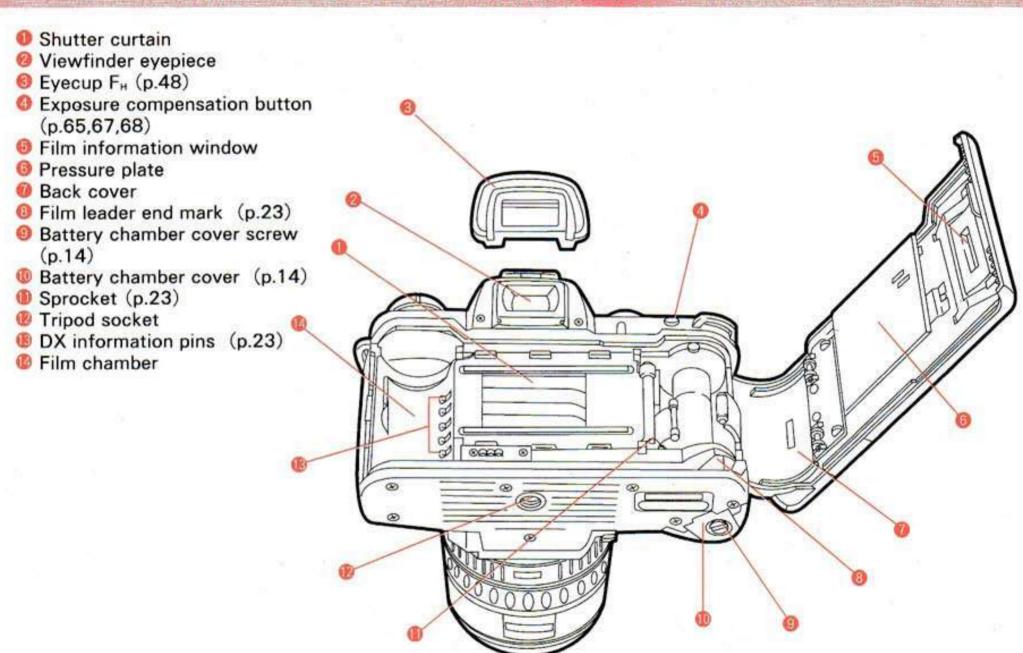
Procedure During 12-month Warranty Period

Any Pentax which proves defective during the 12month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representatives of the manufacturer in your country, send the equipment to the manufacturer, with postage prepaid. In this case, it will take a considerable length of time before the equipment can be returned to you owing to the complicated customs procedures required. If the equipment is covered by warranty, repairs will be made and parts replaced free of charge, and the equipment will be returned to you upon completion of servicing. If the equipment is not covered by warranty, regular charges of the manufacturer or of its representatives will apply. Shipping charges are to be borne by the owner. If your Pentax was purchased outside of the country where you wish to have it serviced during the warranty period, regular handling and servicing fees may be charged by the manufacturer's representatives in that country. Notwithstanding this, your Pentax returned to the manufacturer will be serviced free of charge according to this procedure and warranty policy.

In any case, however, shipping charges and customs clearance fees to be borne by the sender. To prove the date of your purchase when required, please keep the receipt or bills covering the purchase of your equipment for at least a year. Before sending your equipment for servicing, please make sure that you are sending it to the manufacturer's authorized representatives or their approved repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation for the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.

The local warranty policies available from Pentax distributors in some countries can supersede this warranty policy. Therefore, we recommend that you review the warranty card supplied with your product at the time of purchase, or contact the PENTAX distributor in your country for more information and to receive a copy of the warranty policy.

NAMES OF WORKING PARTS II





Asahi Optical Co., Ltd. 11-1, Nagata-cho 1-chome, Chiyoda-Ku, Tokyo 100, JAPAN

Pentax Europe n.v. Weiveldlaan 3-5, 1930 Zaventem, BELGIUM

Pentax GmbH Julius-Vosseler-Straße 104, D-22527 Hamburg, GERMANY

Pentax U.K. Limited Pentax House, Heron Drive, Langley, Slough SL3 8PN, U.K.

Pentax France 12-14, rue Jean Poulmarch, 95100 Argenteuil, FRANCE

Pentax Benelux B.V. (for the Netherlands) Spinveld 25, 4815 HR Breda, NETHERLANDS

(for Belgium & Luxemburg) Weiveldlaan 3-5, 1930 Zaventem, BELGIUM

Pentax (Schweiz) AG Industriestraße 2, 8305 Dietlikon, SWITZERLAND

Pentax Scandinavia AB Box 650, 75127 Uppsala, SWEDEN

Pentax Corporation 35 Inverness Drive East, Englewood, Colorado 80112, U.S.A.

Pentax Canada Inc. 3131 Universal Drive, Mississauga, Ontario L4X 2E5, CANADA

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