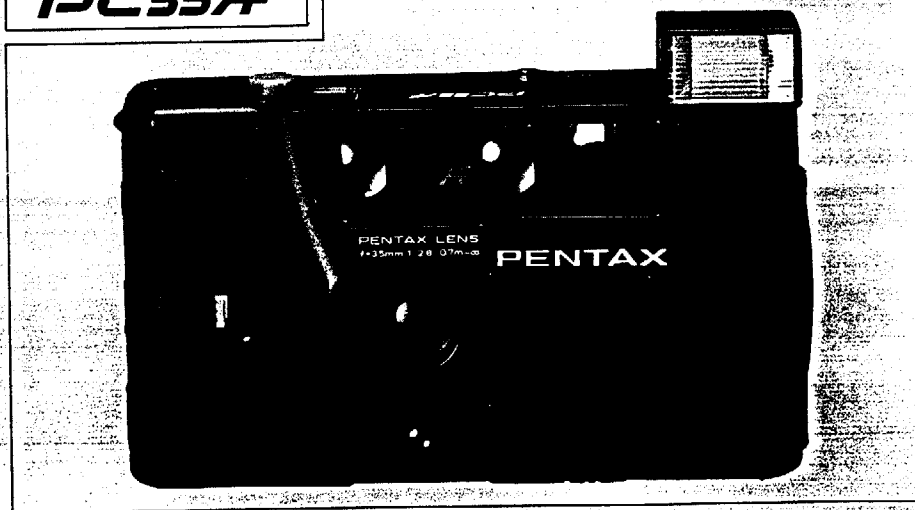


PENTAX

PC35AF



The new Pentax PC35AF is a compactly designed 35mm Auto Exposure camera with programmed shutter, incorporating completely focus-free operation; the outstanding feature of the built-in auto focus system. In addition, it features a built-in electronic flash unit for use where there is insufficient light—or to fill in dark areas and other similar situations. With the inclusion of the optional automatic film winding unit, you can capture a change of mood or expression in a moment; truly, a camera worthy of the serious and amateur photographer.

This manual has been provided in order that you will be able to enjoy the new Pentax PC35AF to gain maximum advantage from its advanced design. It is recommended that the contents be read over very carefully in order that with the camera you may produce the best pictures possible.

1 Insertion of Batteries

2 Opening/Closing Lens Protector

3 Battery Status Check

4 Film Speed Setting

5 Film Loading

6 Unloading Film

7 Shooting

- ✗ Exposure compensation
- ✗ Flash photography
- ✗ Self-timer
- ✗ Focus locking technique
- ✗ Difficult auto focusing subjects/situations
- ✗ Attaching the neck strap
- ✗ Tips in taking good photographs
- ✗ PC35 Winder

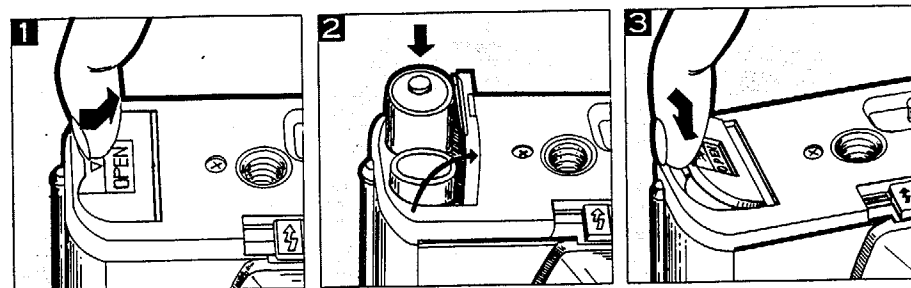
- Preventive camera maintenance
- Specifications
- Warranty policy

1 Insertion of Batteries

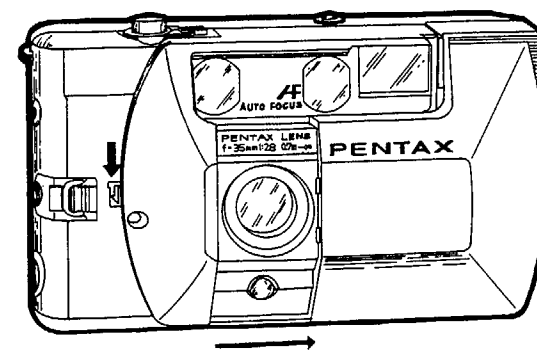
The electronic system of your Pentax PC35AF operates on two 1.5V mini batteries. (Alkaline battery AAA)
(Caution: NiCd batteries can not be used.)

1. Open the battery chamber cover located at the base of the camera by sliding it in the direction of the arrow; use fingernail in the groove to push the cover.

2. Fit two batteries into the chamber as indicated—they should be fitted as shown. Note the + and - markings provided.
3. Close the cover by pushing it back.



2 Opening/Closing Lens Protector

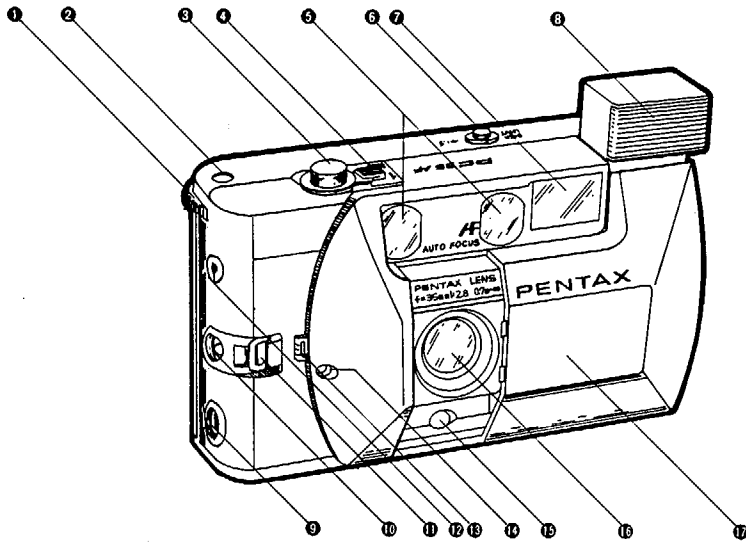


The lens protector may be opened by pushing protector release in the direction of the arrow. To close, push protector back, locking same in its original position.

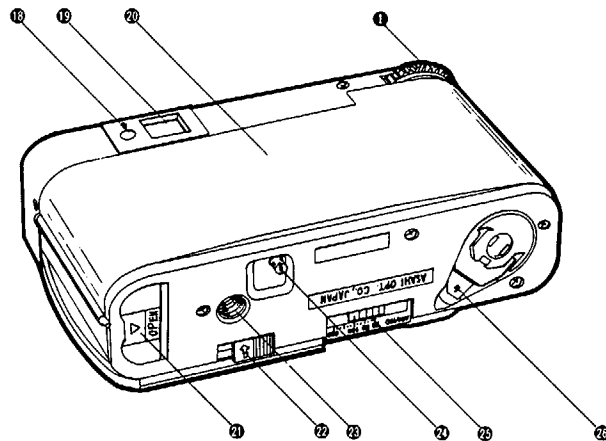
- With the protector closed, a safety device prevents accidental firing of the shutter; similarly, the flash pop-up release is also

- locked at the same time.
- While holding the camera, even a slight pushing-back of the lens protector would activate the built-in safety device, locking the shutter button. This is to avoid possible vignetting.

Description of Components



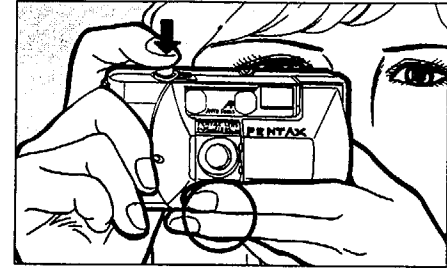
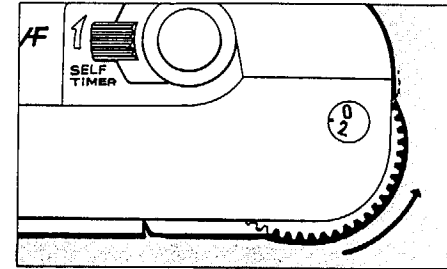
- | | |
|--------------------------------|---|
| 1 Thumb wheel | 14 Self-timer lamp |
| 2 Exposure counter | 15 Metering cell |
| 3 Shutter release button | 16 Taking lens |
| 4 Self-timer lever | 17 Lens protector |
| 5 Auto focus windows | 18 Flash ready lamp |
| 6 Exposure compensation button | 19 Viewfinder eyepiece |
| 7 Viewfinder | 20 Back cover |
| 8 Flash head | 21 Battery chamber cover |
| 9 Winder contact terminal | 22 Flash pop-up release |
| 10 Winder screw receptacle | 23 Tripod receptacle |
| 11 Neck strap hook | 24 Film rewind button |
| 12 Winder guide pin hole | 25 Film speed lever |
| 13 Lens protector release | 26 Film rewind crank/Back cover release |



3 Battery Status Check

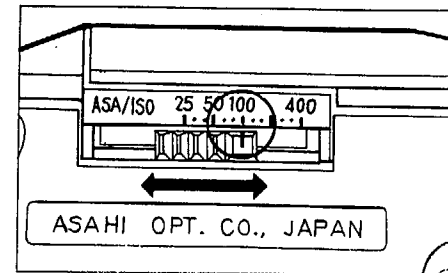
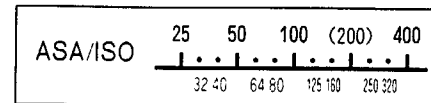
After opening the lens protector, battery status can be checked by covering the metering cell with the hand as illustrated, and partially depressing the shutter release button. The ORANGE indicator will glow continuously, accompanied by a beeping sound when normal voltage is available; the lamp may be seen in the upper section of the viewfinder. Battery status is also known by another method: in a brightly lit place, partially depress the shutter button without covering the metering cell with the hand, and if the GREEN lamp lights, there is no problem with the batteries.

- Insert both batteries properly according to the indicated + and - markings.
- When replacing batteries, by type, brand, new or old they should not be mixed, as by doing so, poor results may be the outcome.
- It is recommended that the batteries are removed from the camera if it is not used for a long time. Leaving batteries in the camera may result in acid leakage and possible damage to the camera mechanism.

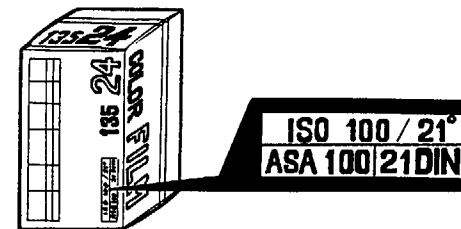


4 Film Speed Setting

Align the index (red line) of the film speed lever with the corresponding film speed (ASA/ISO) of film being used.



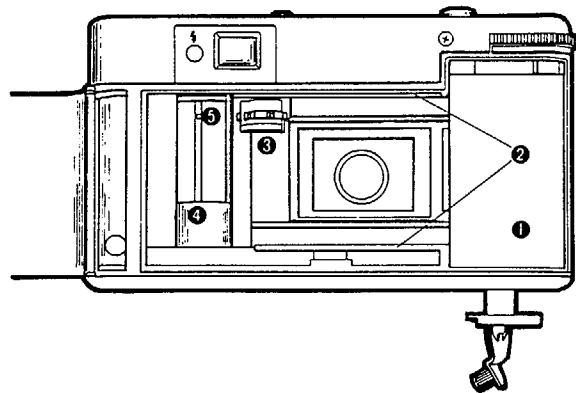
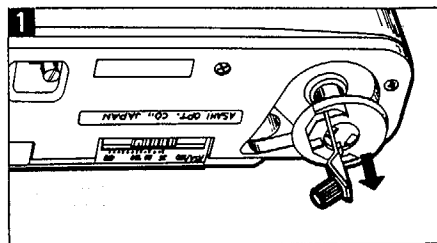
- Film speed is indicated on film package.



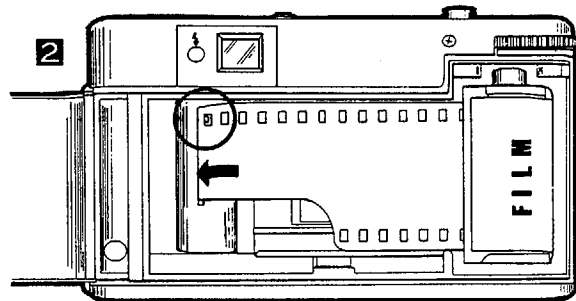
5 Film Loading

Avoid, if at all possible, loading film in direct sunlight. Keep lens protector closed when loading film.

1. To open the camera back, raise the film rewind crank as shown, and pull it; further pressure will release the camera back's locking.



- 1 Film chamber
- 2 Film guide rails
- 3 Sprocket
- 4 Slot
- 5 Slot-claw



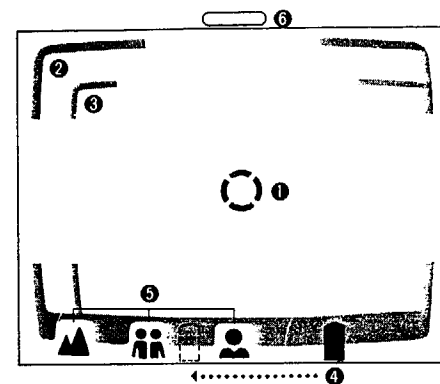
2. Place the film cartridge in the film chamber 1 as illustrated, and depress film rewind crank. Should crank be prevented from returning to its original position, turn it slightly while pushing at the same time. Draw the film leader across the back,

inserting it into one of the slots 4 located within the film take-up spool. Confirm that the film perforation is engaged by the slot-claw 5. Slightly turning the thumb wheel, confirm that film is correctly moving in alignment between the two guide rails 2

7 Shooting

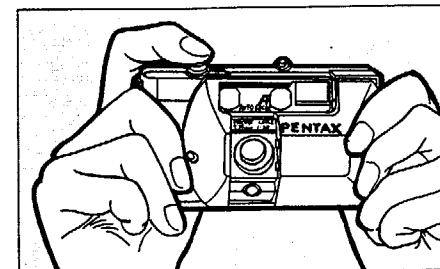
1. Center your subject within the auto focus frame in the middle of the viewfinder.
2. After winding film, partially depress the shutter button. Confirm, that the GREEN lamp is lit in the upper section of the viewfinder, which indicates a faster shutter speed—suitable for hand-held shooting.
3. Continue to depress the shutter, and the distance needle indicator moves with a hissing sound. Further depressing will complete picture exposure.

Should the lamp in the upper part of the viewfinder be unlit, proper exposure is not guaranteed.

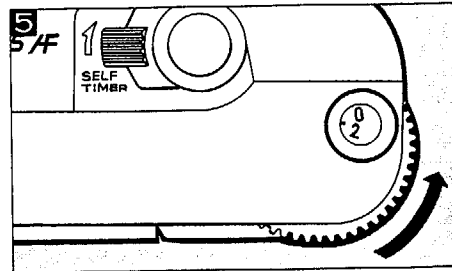
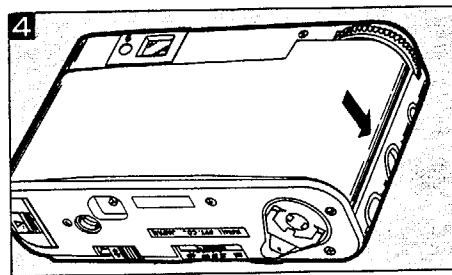
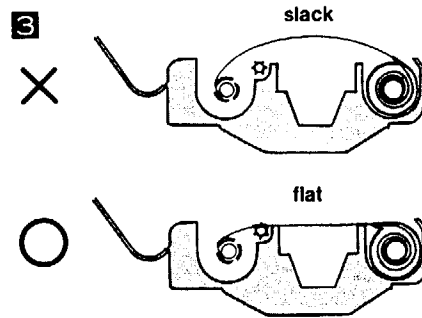


- 1 Auto focus frame
- 2 Field-of-view frame
- 3 Short distance compensation indicator
- 4 Distance needle indicator
- 5 Zone focusing marker
- 6 GREEN/ORANGE lamp

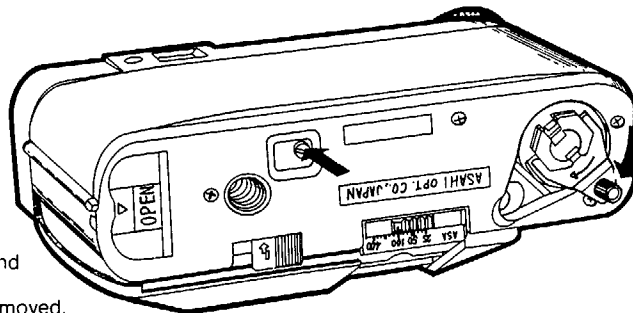
- The auto focus control of Pentax PC35AF operates for the subject within the auto focus frame.
- Partly depress the shutter button, and the needle indicator automatically moves along the zone focusing marks, according to the camera-subject distance. The zone markers indicate the camera-subject distance involved, as follows:
 - = a distance of approx. 0.8m
 - = a distance of approx. 1.5m
 - ▲ = ∞ (infinity)
- When the needle indicator wavers in the area of "●", frame the subject so that it is located within the short distance compensation indicator.
- If you hear a beep and the ORANGE lamp is lit, it is a warning that the shutter speed is too slow, causing possible camera shake, and that insufficient light is being registered. In this event, use of the flash is recommended; refer to "Flash Photography" found in the back of this operating manual.
- The auto focusing system is highly accurate and reliable for ordinary photographic requirements. However, under certain conditions, the auto focusing system may be confused. For example: When the zone focusing marker and the known subject distance indicate an obvious discrepancy to a large degree, then the subject distance cannot be accurately measured by the electronic system of Pentax PC35AF. Additional information and possible remedies can be found under "Difficult auto focusing subjects/situations" in this manual.



3. When film has engaged properly, confirm that film is flat as illustrated, otherwise, raise film rewind crank and turn it slightly in the direction of the arrow to take up any slack—then return the crank to its original position.
4. Close the back cover until it locks with a click sound.
5. Film advance must be continued by means of the advancing wheel until exposure counter registers as illustrated. Advance automatically halts when the first frame is ready for exposure. You may now begin to take photographs.



6 Unloading Film



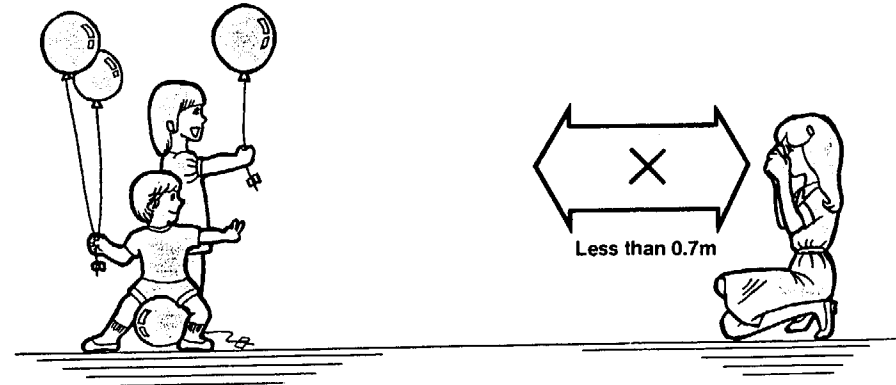
- The film should be rewound after exposing the last frame, and the cassette removed.

Unloading film in direct sunlight should be avoided if at all possible.

1. When the last frame has been exposed—felt by a slight tautness during film advance—depress film rewind button found at the camera base.

2. Raise the film rewind crank and turn in the direction of the indicated arrow. Continue to turn the crank until a sudden tension release is felt. Then, turn a few additional times until crank moves freely. Pull the film rewind crank to open the back cover. Then remove the film cassette.

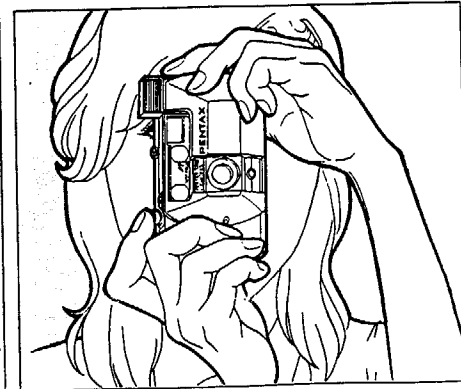
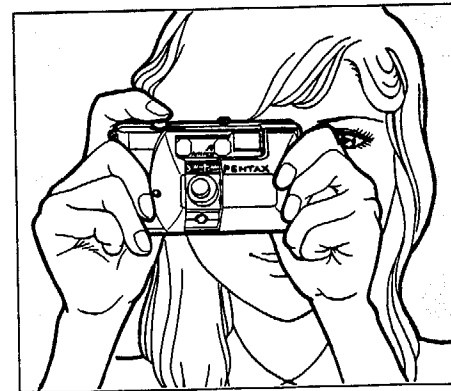
Recommended camera-subject distance with the system



- For best possible results, operate at a camera-subject distance of 0.7m to ∞ (infinity.) Focusing cannot be satisfactorily accomplished at the shorter distances of less than 0.7m.
- Do not block the auto focus windows, lens,

metering cell, flash head, etc., found at the front of the camera, with your hands (or other objects)—it will interfere with the light entering the camera, causing a false reading.

Camera holding



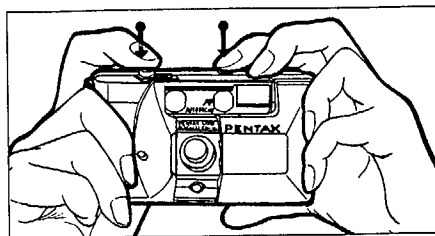
It is important to hold the camera properly in order to take blur-free photos. Practice holding and operating the camera before inserting your first roll of film.

The illustrations show the basic holding positions. No matter which position you use, be sure to grip the camera steadily with both

hands, hold the camera gently against the face in a fixed position, and relax the rest of your body in a secure posture. Brace the elbow of the arm supporting the camera against your body. Always press the shutter release button gently.

✕ Exposure compensation

Care should be taken when photographing people under back-light situations where the sun or a bright sky or a window is behind the subject, for the Pentax PC35AF auto exposure system will tend to underexpose the subject. To compensate for this type of situation, the shutter should be released while simultaneously keeping the exposure compensation button depressed: the subjects will then be exposed as close as possible to normal.



Uncompensated

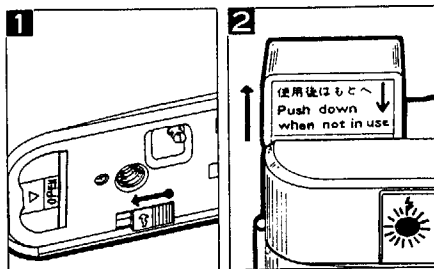


Compensated

✕ Flash photography

Partially depress shutter button, should the beep warning activate and be accompanied by the simultaneous lighting of the ORANGE lamp in the upper section of the viewfinder, this indicates a lack of sufficient light and the possibility of camera shake, due to the slow shutter speed involved. The incorporated flash unit of the camera will help to overcome this problem by compensating for the poor light. Ignoring the special warning mechanism provided, and depressing the shutter will cause camera shake due to the slow-shutter speed and/or under exposed pictures.

1. Push flash pop-up release found at the camera base — the flash will spring up into place and automatically begin to charge.
2. Prior to making exposures, allow the flash



ready lamp to stay on for several seconds for a full charge. When the flash unit is no longer required, simply depress the head into the camera body: it will lock automatically and return the camera to normal mode.

Utilize flash as a supplementary light source in taking photographs in the daylight; In photographing a person/people appearing in the shade—under trees, heavy foliage, etc., without the use of flash-assisted synchronization, the face(s) of subjects appear somewhat darker in the final photograph. Flash synchronization will help greatly in "lighting" up the dark areas of the face, and rendering a pleasing overall photographic result to the subject.

✕ Focus locking technique

When subject(s) appear outside the auto focus framing of the viewfinder, the main subjects get out of focus; to remedy the situation, the following focus lock procedure is recommended:

1. Center your subject for focusing within the auto focus frame of the viewfinder. Partially depress the shutter button, which will freeze the focus temporarily.
 2. Confirm position of the zone focusing marker indicator in the viewfinder.
 3. While shutter button is partially depressed, frame your picture and then release the shutter.
- With the shutter button partially depressed, focus control is frozen at the position of the indicator within the zone focusing marker area. Focusing will be unlocked when pressure upon the button is released.
 - After depressing the shutter button partially, if you remove your finger from the shutter button in order to stop taking a photograph, the shutter button may remain depressed. In that event, further depress the shutter button and release the shutter. The button will then return to the original position.



✕ Difficult auto focusing subjects/situations

Although the Pentax PC35AF auto focusing system is extremely accurate and reliable, certain difficult situations will create problems for the system unless compensation is provided. A common solution will be to focus upon a subject located near the actual subject being photographed, and freeze the distance. Then move/position the camera to point considered best for framing purposes.

Some typical problems which may be encountered when the following subjects/situations are within the viewfinder's auto focus frame:

1. Non-reflective objects—dark hair or a black

telephone—which possess poor reflective qualities;

2. Wire-netting, latticework, and an iron exercise-bar—all with minimal light reflecting qualities;
3. When fluorescent lamps, T.V. sets, sunlight coming through the trees, or strong backlighting conditions are found in and around the auto focus frame;
4. Glass panelling, mirrors, and/or a car body—all possessing strong reflective qualities;
5. Trains and cars and other fast-moving objects;
6. Water jets, water surfaces, smoke, flame/fire-works., and other vaguely shaped objects.

- Automated flash control range
ASA/ISO 100 film 0.7 to 4m
ASA/ISO 400 film 1.4 to 6m
- Number of cassette roll films possible
Approx. 100 flashes with a fresh set of alkaline batteries, at normal temperature and humidity.

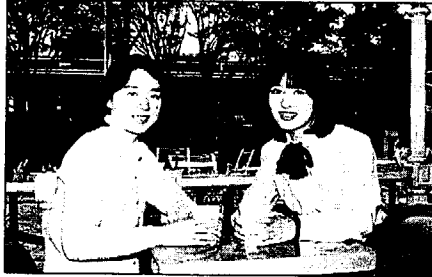
Precautions:

- In flash photography, partial depressing of shutter button will light the GREEN lamp in the viewfinder. However, use flash after confirmation of the flash ready lamp before releasing the shutter.
- Should the shutter be released before the flash ready lamp is lit, it may cause underexposed pictures (darker results).
- The flash head must be pushed back into the camera, when not required; if left as it is, the batteries will continue to drain—depleting them and shortening their life.
- In taking vertical photographs, the camera should be held with the flash head positioned upward; then, gently depress shutter release.

Flash not used



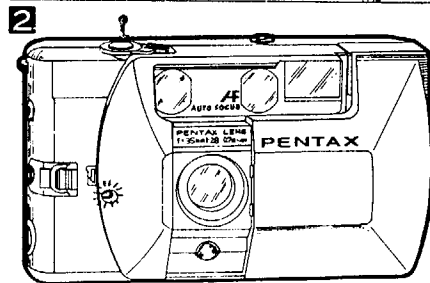
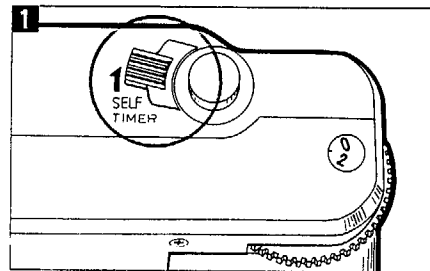
Flash used



✕ Self-timer

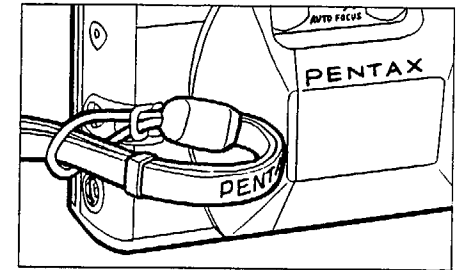
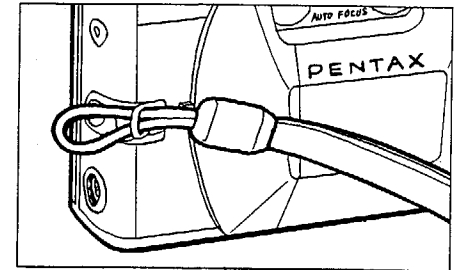
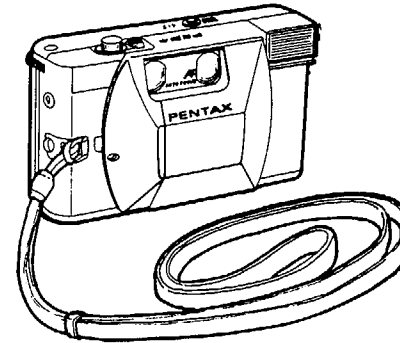
The self-timer is a useful supplementary aid in combination with a tripod, whenever the photographer wishes to include himself in the picture—a family group photo or with friends.

1. The self-timer may be set by pushing the lever in the direction indicated by the arrow. When the photograph has been taken with the self-timer, the lever should be returned to the original position.
2. Depress shutter release after the film has been wound on with the thumb wheel. The self-timer lamp (red) will light up—after about 10 seconds, the shutter will be released automatically. Approximately 3 seconds prior to the actual shutter release, the lamp will begin to flash intermittently, along with a simultaneous intermittent electronic audible beep—indicating that the shutter will be released in a few seconds. This lamp also lights up for an instant when the shutter is released during normal photography.



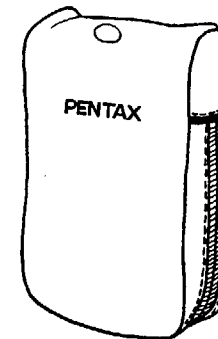
✕ Attaching the neck strap

- Put one end of the neck strap into the hook and tie it securely as illustrated. This strap has been provided to offer handy portability when carrying the camera.

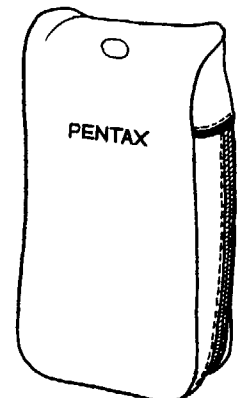


✕ Soft cases

- As optional accessories, there are two kinds of soft cases available for your PC35AF, as illustrated. The type "S" can contain only the camera, while the type "L", the camera fitted with the PC35 Winder.



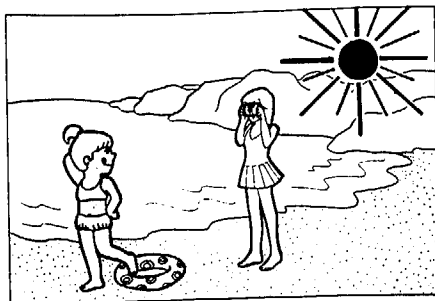
Soft Case S



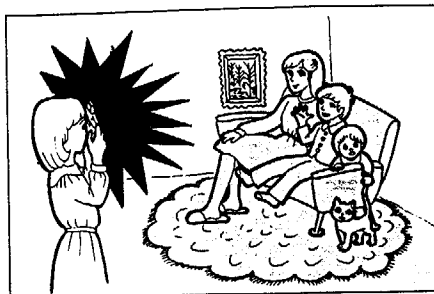
Soft Case L

X Tips in taking good photographs

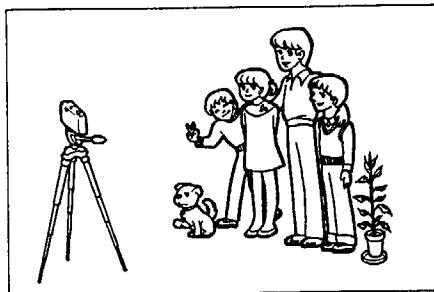
- Keep your back to the sunlight—with the subject frontlit—and, depress shutter button gently.



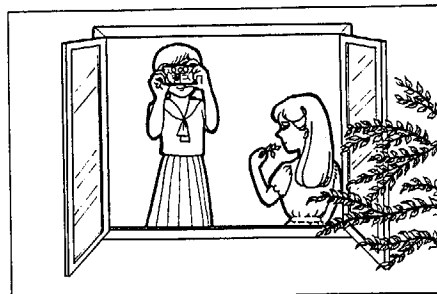
- Use the built-in flash often. Use it at parties, family get-togethers, and other activities where the lighting leaves much to be desired for picture-taking. Avoid having highly reflective background, when using flash, such as glass or metals.



- The self-timer can add much pleasure to your picture taking—use it often. The Pentax PC35AF self-timer possesses a 10-second delayed shutter release mechanism. Confirm that the film has been wound, prior to setting the self-timer.



- Make maximum use of the highly efficient exposure compensation control to obtain satisfying pictures under adverse conditions such as people against a highly reflective window, a bright sky, at the seaside in fine weather, or even against a background of snow, and many other similar situations.



SPECIFICATIONS

Type:	35mm leaf shutter camera featuring auto focus control and built-in flash unit
Film:	35mm film
Picture size:	24 × 36mm
Lens:	Pentax 35mm f/2.8; 5-element in 5-group configuration; angle of view, 63°; minimum focusing distance, 0.7m
Focusing:	Infrared Active Auto Focus System, equipped with "focus lock," and an auto focus control range from 0.7m to ∞ (infinity)
Shutter:	Programmed AE electronic shutter, with variable speeds of approx. 1/8 to 1/430 sec.
Self-timer:	Electronic; equipped with an electronic audible "beep" and an additional lamp indicator. Time delay of approximately 10 secs.; 3-sec. prior to shutter release warning, incorporated; w/shutter button activation
Viewfinder:	Albada type, bright frame finder; field of view, 85%; 0.5x magnification
Viewfinder display:	Picture frame; auto focusing frame; parallax compensation indicator for short distance; zone focusing markers; distance indicator needle; battery check display; and, camera shake warning indicator
Camera shake warning device:	Audible electronic signal with simultaneous ORANGE lamp lighting in viewfinder
Film wind:	Thumb wheel w/winding angle of 360°
Film counter:	Automatic zero reset; normal count; 0, 20, 24 and 36, color (orange) coded indications
Film rewinding:	Crank winding, and film rewinding button reset automatically
Exposure meter:	Programmed auto exposure control, utilizing CdS cell light detector; light measuring range from EV6 (approx. 1/8 sec. at f/2.8) to EV17 (approx. 1/430 sec. at f/17) with ASA/ISO 100 film
Film speed range:	ASA/ISO 25 ~ 400
Exposure metering switch:	By shutter button (Shutter button does not operate while lens protector is closed).
Power supply:	Two 1.5V mini batteries (Alkaline batteries AAA); NiCd batteries are not compatible and must not be used.
Exposure compensation:	Exposure compensation of +1.5 steps possible by depressing compensation button
Flash:	Built-in; "pop-up" flash head type with lever control—camera's electrical circuitry automatically synchronizes for flash-use mode. (Flash is not operable while lens protector is closed, and flash head will not pop-up.)
Flash ready display:	By ORANGE lamp next to viewfinder eyepiece
Guide number:	11 (ASA/ISO 100, .m)
Flash coupling range:	0.7 to 4m (w/ASA/ISO 100 film); 1.4 to 6m (ASA/ISO 400)
Recycling interval:	Approx. 8 sec. utilizing fresh set of AAA batteries
Number of flash:	Approx. 100 flashes (by the time when the flash is recycled with the interval of 30 secs.)
Size & weight:	116(w) × 66.5(h) × 45.5(d) mm; 275g (without batteries)
Accessories:	Neck-strap

A set of fresh batteries is sufficient to power the Pentax PC35AF for one year when using it in normal photography and at normal temperature. Should this camera be utilized at a lower temperature, however, battery ability accordingly lowers. In that event, take some measure to keep the batteries warm. The Pentax PC35AF mechanism is specially devised to operate in the temperature range of approx. 50° C to -10° C.

PC35 Winder

An optional accessory to enable motorized automatic film winding when it is fitted to the PC35AF. This also serves as a camera grip for easier holding. Powered by two alkaline batteries, it also offers single frame film advance.



PREVENTIVE CAMERA MAINTENANCE

1. The Pentax PC35AF is a highly developed precision instrument. Care must be taken to avoid dropping the camera or striking it against a solid object—wall, bookcase, etc. Should this happen, it is recommended that the camera be taken to one of the nearest Pentax service facilities for detailed inspection of any possible mechanical damage.
2. Dust, dirt and other foreign objects appearing on the lens, viewfinder or the auto focusing windows should be removed as soon as possible for it will interfere with the performance of your camera. It is recommended that a commercial lens blower or brush—available at camera dealers—be employed. This means is normally sufficient to accomplish simple cleaning. Smudges, such as fingerprints, should be wiped off carefully by using a soft lens tissue or cotton cloth impregnated with a mild lens cleaning liquid compound.
3. Solvents, such as thinners or alcohol, should not be used to clean the components—seepage may cause irreparable damage to the special lens sealing and adhesive compound between the glass.
4. If the camera gets wet, the camera should be wiped by using a soft, dry cloth. Following lengthy seashore use, the camera should be carefully cleaned, again, using a soft cloth—preferably, cotton, to remove the salt traces.
5. Cameras should not be subjected to high temperatures and humidity. For example: A car interior or its trunk compartment is often subjected to a high degree of heat. It is also possibly damaging to store your camera in a cabinet or closet containing certain chemicals—insecticides, such as naphthaline—for any length of time.
6. Should the camera be subjected to immersion in water (salt water or fresh water), for example, by being dropped into a lake or the ocean, the unit will malfunction; or, at worst, become irreparable. It is recommended that the camera be brought into the nearest Pentax servicing facility for a thorough inspection and possible repair/overhaul as soon as possible.

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 has not been abused, altered, or operated contrary to instruction. Because the tolerances, quality, and design compatibility of lenses other than Pentax lenses are beyond our control, damage caused by use of such lenses will not be covered by this warranty policy. 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.

Procedure during 12-month Warranty Period

Any Pentax which proves defective during the 12-month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representative 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 in Japan in importing and re-exporting photographic equipment. 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 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 are to be borne by the sender. To prove the date of your purchase when required, please keep the receipts 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 accredited repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation of the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.

This warranty policy does not apply to Pentax products purchased in the U.S.A., U.K. or Canada. The local warranty policies available from Pentax distributors in those countries supersede this warranty policy.

*Specifications are subject to change without notice.



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