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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.

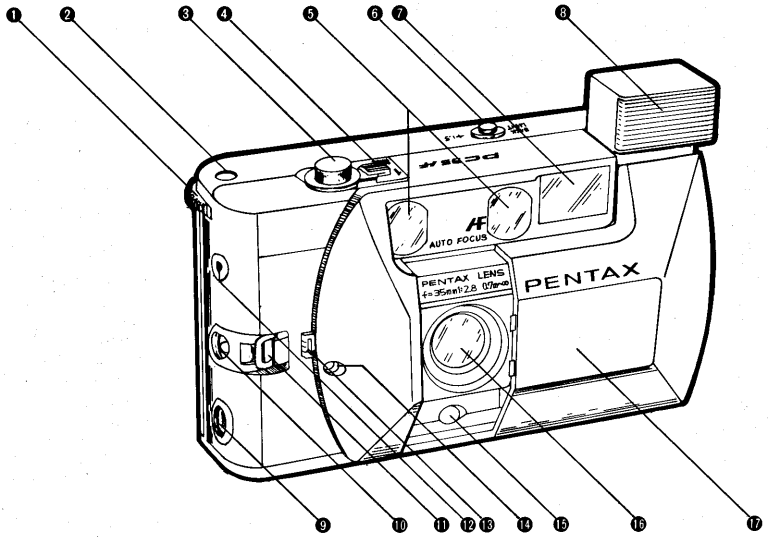
1 Insertion of Batteries
2 Opening/Closing Lens Protector
3 Battery Status Check
4 Film Speed Setting
5 Film Loading
6 Unloading Film
7 Shooting

- 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

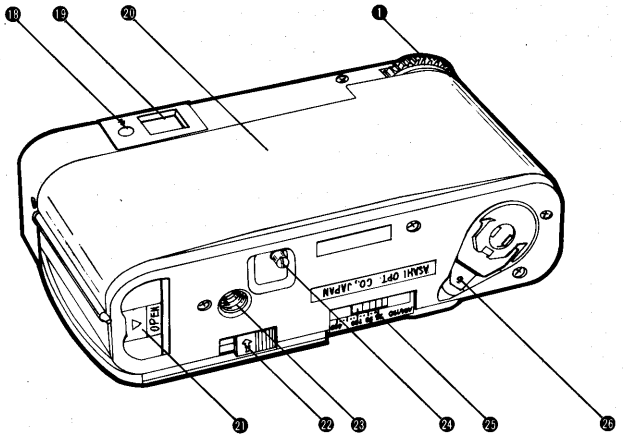
- Preventive camera maintenance
- Specifications
- Warranty policy

Description of Components

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❶ Thumb wheel
❷ Exposure counter
❸ Shutter release button
❹ Self-timer lever
❺ Auto focus windows
❻ Exposure compensation button
❼ Viewfinder
❽ Flash head
❾ Winder contact terminal
❿ Winder screw receptacle
⓫ Neck strap hook
⓬ Winder guide pin hole
⓭ Lens protector release
⓮ Self-timer lamp
⓯ Metering cell
⓰ Taking lens
⓱ Lens protector
⓲ Flash ready lamp
⓳ Viewfinder eyepiece
⓴ Back cover
㉑ Battery chamber cover
㉒ Flash pop-up release
㉓ Tripod receptacle
㉔ Film rewind button
㉕ Film speed lever
㉖ Film rewind crank/Back cover release

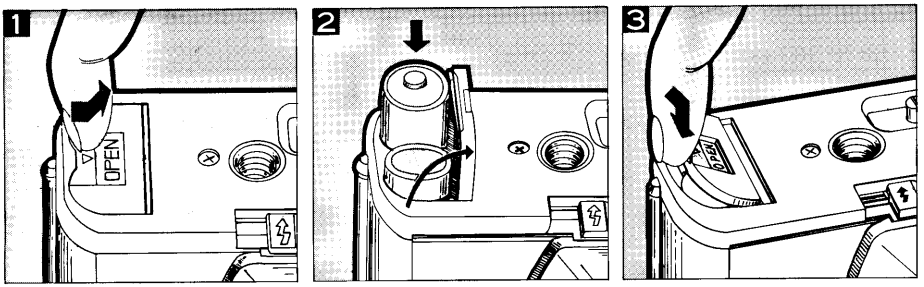


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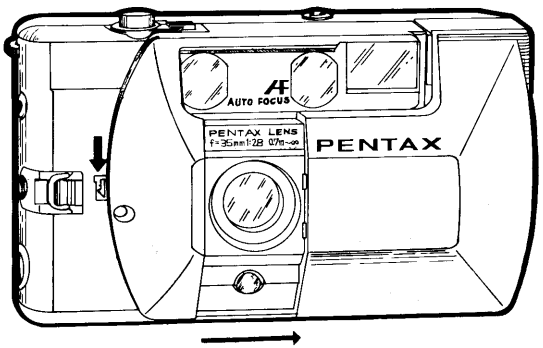
1 Insertion of Batteries

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



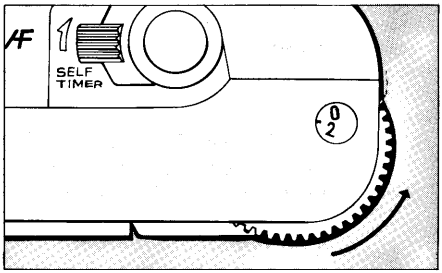
The lens protector may be opened by pushing protector release in the direction of the arrow. To close, push protector back, locking same in its original position.

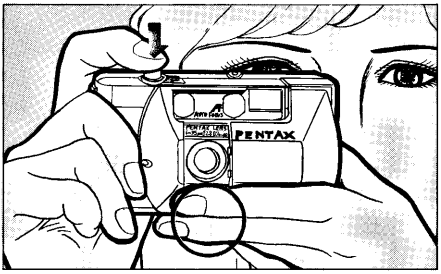
- With the protector closed, a safety device prevents accidental firing of the shutter; similarly, the flash pop-up release is also locked at the same time.
- While holding the camera, even a slight pushing-back of the lens protector would activate the built-in safety device, locking the shutter button. This is to avoid possible vignetting.

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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.

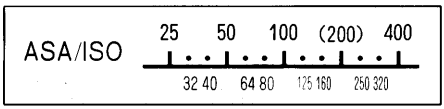


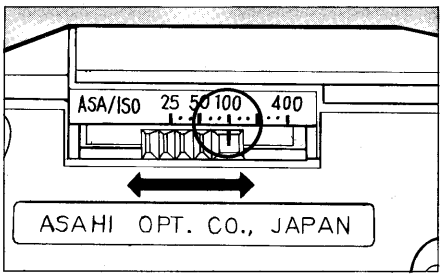


- Insert both batteries properly according to the indicated + and − markings.
- When replacing batteries, by type, brand, new or old they should not be mixed, as by doing so, poor results may be the outcome.
- It is recommended that the batteries are removed from the camera if it is not used for a long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

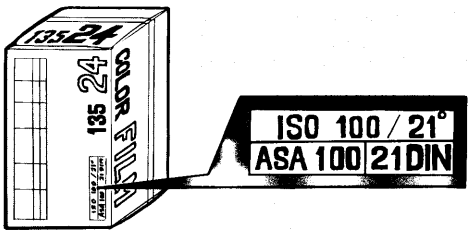
4 Film Speed Setting

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.

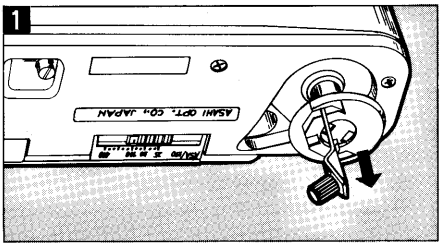


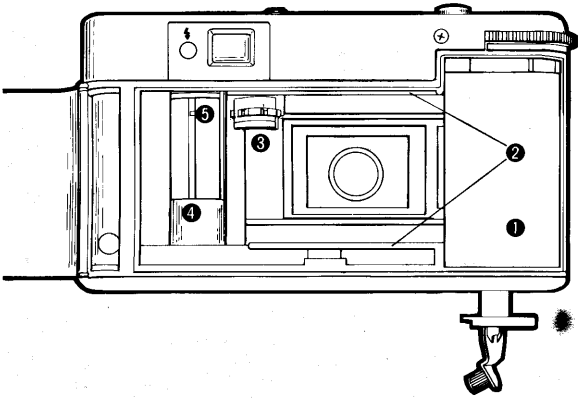
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5 Film Loading

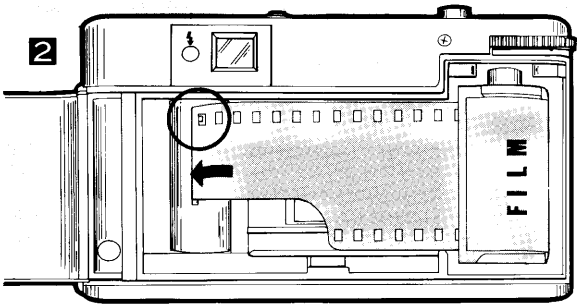
Avoid, if at all possible, loading film in direct sunlight. Keep lens protector closed when loading film.

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.





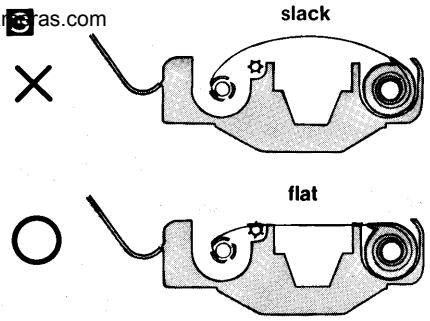
❶ Film chamber
❷ Film guide rails
❸ Sprocket
❹ Slot
❺ Slot-claw

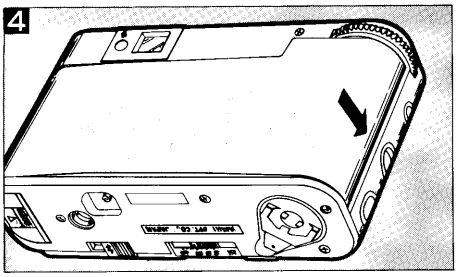


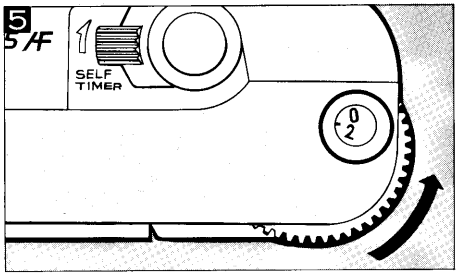
2. Place the film cartridge in the film chamber ❶ as illustrated, and depress film rewind crank. Should crank be prevented from returning to its original position, turn it slightly while pushing at the same time. Draw the film leader across the back, inserting it into one of the slots ❹ located within the film take-up spool. Confirm that the film perforation is engaged by the slot-claw ❺. Slightly turning the thumb wheel, confirm that film is correctly moving in alignment between the two guide rails ❷

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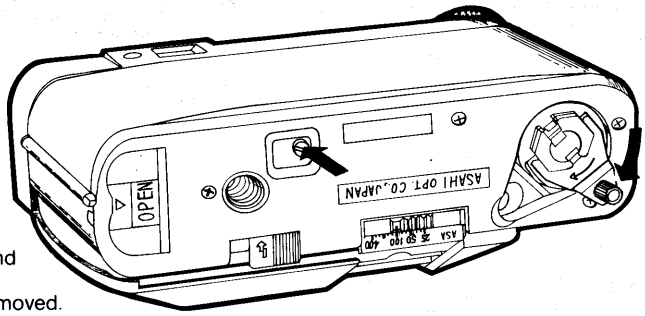
3. When film has engaged properly, confirm that film is flat as illustrated, otherwise, raise film rewind crank and turn it slightly in the direction of the arrow to take up any slack—then return the crank to its original position.
4. Close the back cover until it locks with a click sound.
5. Film advance 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.

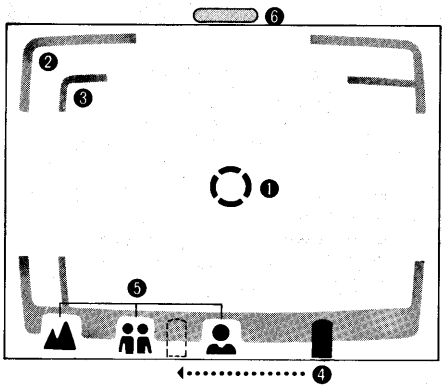
1. When the last frame has been exposed—felt by a slight tautness during film advance—depress film rewind button found at the camera base.
2. Raise the film rewind crank and turn in the direction of the indicated arrow. Continue to turn the crank until a sudden tension release is felt. Then, turn a few additional times until crank moves freely. Pull the film rewind crank to open the back cover. Then remove the film cassette.

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7 Shooting

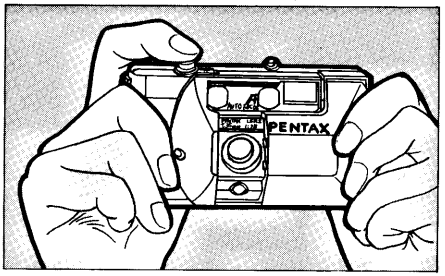
1. Center your subject within the auto focus frame in the middle of the viewfinder.
2. After winding film, partially depress the shutter button. Confirm, that the GREEN lamp is lit in the upper section of the viewfinder, which indicates a faster shutter speed—suitable for hand-held shooting.
3. Continue 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

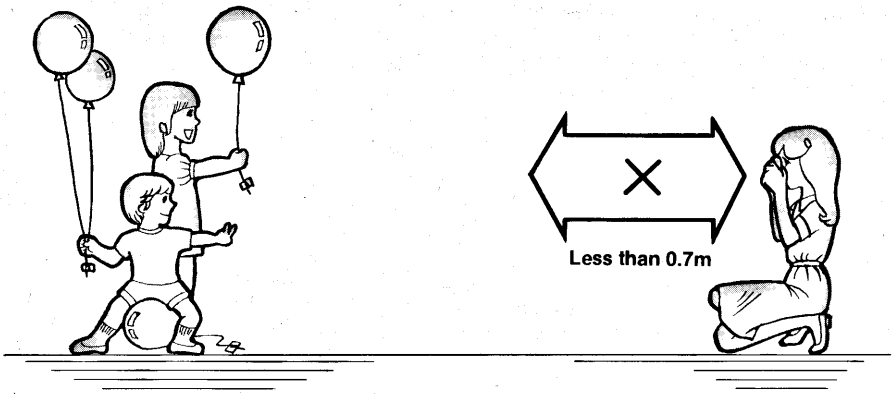
- The auto focus control of Pentax PC35AF operates for the subject within the auto focus frame.
- Partly depress the shutter button, and the needle indicator automatically moves along the zone focusing marks, according to the camera-subject distance. The zone markers indicate the camera-subject distance 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.





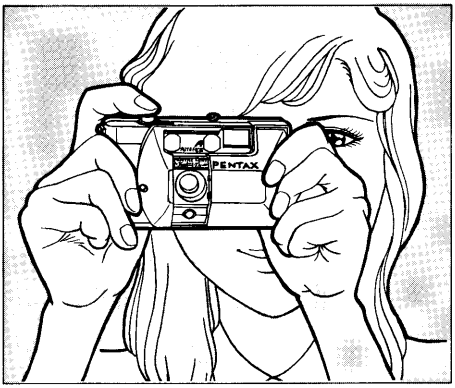
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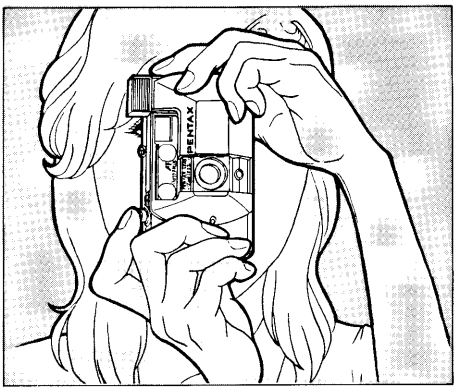
Recommended camera-subject distance with the system



- 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



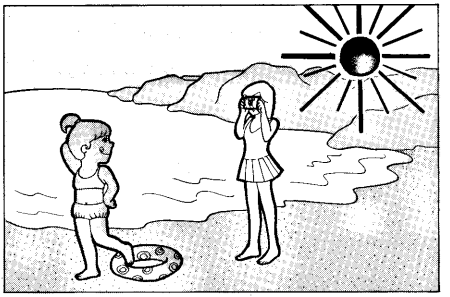


It is important to hold the camera properly in order to take blur-free photos. Practice holding and operating the camera before inserting your first roll of film.
The illustrations show the basic holding positions. No matter which position you use, be sure to grip the camera steadily with both hands, 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.

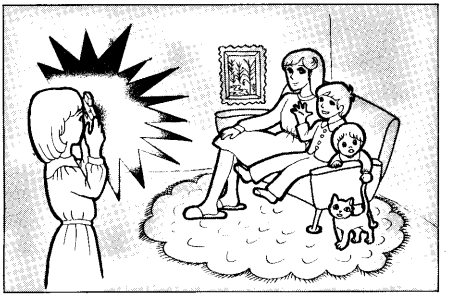
✖ Tips in taking good photographs

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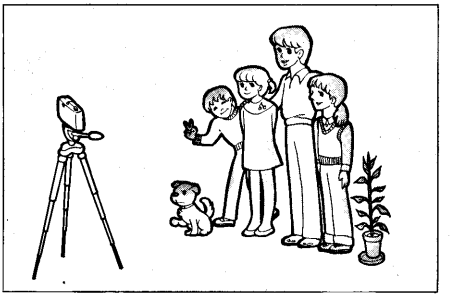
- Keep your back to the sunlight—with the subject frontlit—and, depress shutter button gently.



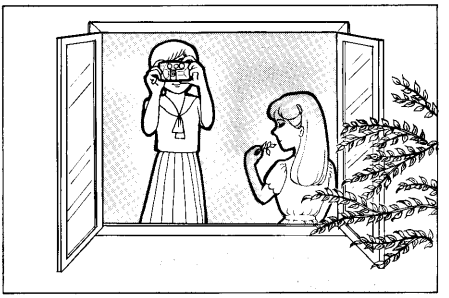
- Use the built-in flash often. Use it at parties, family get-togethers, and other activities where the lighting leaves much to be desired for picture-taking. Avoid having highly reflective background, when using flash, such as glass or metals.



- 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.



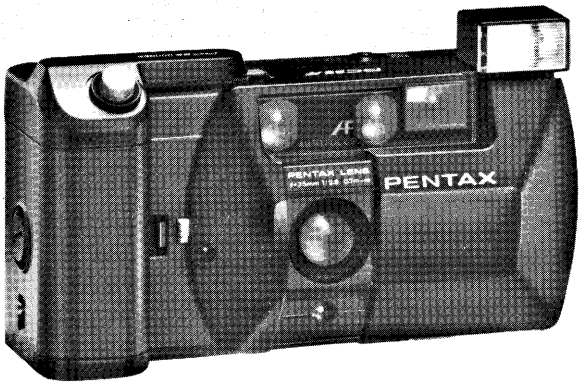
- Make maximum use of the highly efficient exposure compensation control to obtain satisfying pictures under adverse conditions such as people against a highly reflective window, a bright sky, at the seaside in fine weather, or even against a background of snow, and many other similar situations.



✖ PC35 Winder

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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.

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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) 2.29 ft.

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.)

sync @ 1/30

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)

2.29-13.2 ft w/ISO 100

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

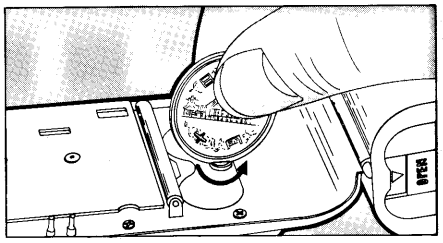
PENTAX PC35AF DATE オートロン AFデートの使い方

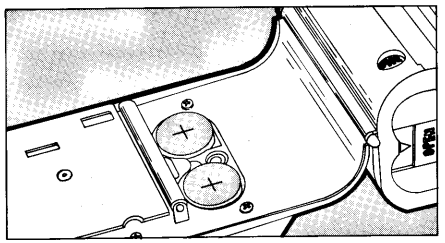
このたびはペンタックスPC35AFデート(オートロンAFデート)をお買上げいただき、誠にありがとうございます。カメラの取扱い方は、同封のオートロンAFの使用説明書をよくお読みください。

The PC35AF DATE enables you to record the year/month/date and time of the day on your photographs. Except for the data-recording device, all the features and specifications are identical to those of the PC35AF, so please read the operating manual of the PC35AF very carefully.

オートロンAFデートは、出荷時にデート用の電池を入れ、「年月日」「時ー分」モードはほぼ近い時間にセットしてあります。

電池の入れ方(電池を交換するとき)

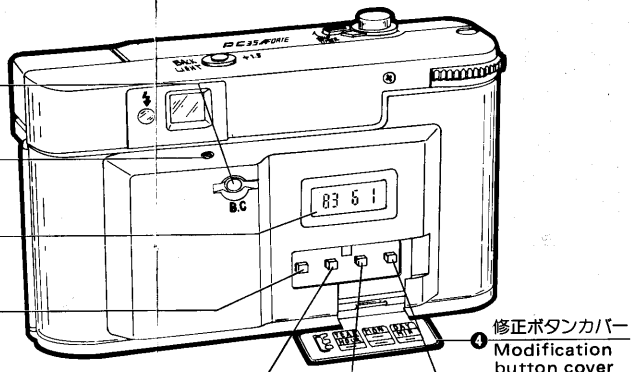




- 次の種類の電池はどちらでも使えます。
  JIS LR44型アルカリマンガン電池2個
  JIS SR44型(G13)銀電池2個

1. 裏ぶたを開け、裏ぶた内側の電池ぶたをコインなどで左に回してはずします。
2. 電池は⊕マークを上にして入れます。電池ぶたは、穴に凸部を入れ元のように閉じます。

各部の名称・使い方



- ❶のバッテリーチェックボタンを押すと❷の赤ランプが点灯します。点灯しないときは電池の⊕⊖を正しく入れ直すか、新しい電池と交換してください。
- 電池を正しく入れると、❸の外部表示(液晶)が出ます。この表示と同じ数字が撮影と同時にフィルムに写し込まれます。なお表示は"各モードの修正"に従って修正してください。
- ❹の修正ボタンカバーを爪で下方へ開きます。
- ❺のモード切換えボタンを押すと、3つのモード(年月日、時ー分、-----)が順番に表示されますから、希望のモードが出たところで止めます。
  「-----」はデータ写し込み中止モードです。

YEAR(年)	MON(月)	DAY(日)
HOUR(時)	—	MIN(分)
— —	—	— —

- ❻❼❽の各修正ボタンは、1回押すごとに表示が1つ進みます。押し続けると、約1～2秒後から表示は連続的に進みます。

「年月日」表示の修正 83 6 1

1. 「年」は、❻を押します。
   年は西暦の下2桁です。1983年=83
2. 「月」は、❼を押して合わせます。
3. 「日」は、❽を押して合わせます。

※「時ー分」モードの修正がされていないと、「年月日」モードの日替わりが正確に行なわれません。「時ー分」モードの修正もお忘れなく!

「時ー分」表示の修正 15 - 30

1. 最初に秒を合わせます。時報などに合わせて修正ボタンの❼を押すと、表示には現われませんが、秒時刻がゼロにセットされます。
2. 「分」は、❽を押します。
3. 「時」は、❻を押します。時は24時間表示になっています。

※秒表示の「ー」は点滅しているので、表示中にシャッターがきれたときだけ写し込まれます。

Inserting batteries

- The data-recording unit of PC35AF DATE is powered by two alkaline (LR44) or silver-oxide (SR44) batteries.

1. Open camera back and remove the battery compartment cover by turning cover screw counterclockwise with a coin.
2. Insert two batteries with the plus (+) marking facing out. Replace battery compartment cover by fitting tab into the notch.

Data Setting

- When the battery check button ❶ is depressed, the red lamp ❷ will glow. If not, reconfirm the correct polarity of batteries and/or replace with new batteries.
- When the batteries are inserted properly, data information will appear on the liquid crystal display (LCD) ❸. This information will be recorded on the photograph. Set desired data on the display according to respective modes.
- Flip out the modification button cover ❹ using your fingernail.
- Three modes; "Year/Month/Day", "Hour/Minute", and "- - - - -" (blank), are consecutively displayed when mode selector button ❺ is depressed.
  "- - - - -" indicates mode when no data printout is required.
- Depressing respective button ❻, ❼, or ❽ once will advance the displayed figures one at a time. For rapid advance, continue depressing the button and, within a second or two, figure will increase consecutively.

Modifying time indications 15 - 30

1. First modify the second. Depress button ❼ by the announcement of time, when the flickering second (-) indication is set to zero. (although the indication does not change).
2. Depress button ❽ to set the minute.
3. Depress button ❻ to set the hour. The 24-hour clock designation is used for the time indication.

* The hyphen (-), flickers once every second and if you release the shutter while it is appearing, it will print out on the photograph itself.

Modifying date indications 83 6 1

1. Push modification button ❻ to set year. First two digits display the year, i.e., "83" = 1983.
2. Push button ❼ to set month.
3. Push button ❽ to set day.

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取扱い上の注意

使用可能フィルム

●使用できるフィルム感度(ASA/ISO)は64～400までのフィルムです。

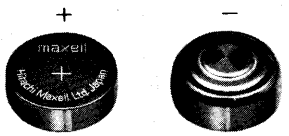
撮影するとき

●データ(年月日／時ー分)が写る部分の被写体が明るいと、データが見にくくなります。データの部分には反射や白いものが来ないようにしましょう。

●「年月日」と「時ー分」を同時に写し込むことはできません。

●撮影するときは、バッテリーチエックボタンを押してバッテリーの確認をしてから撮影してください。

●シャッターをきると赤ランプが点灯し、また外部表示にPRINT(プリント)の表示が出て、データの写し込みがおこなわれたことを確認できます。



電池について

●電池は正しく入れてください。誤った使い方は、液もれ、発熱、破裂の恐れがあります。

●交換は全部を一度に、同一メーカー・同一種類の電池を入れてください。新しい電池と古い電池を混ぜたりしないでください。

●長い間使わないときは、電池を取出しておいてください。古くなった電池は液もれして、内部を傷めることがあります。取出した電池は幼児の手の届かない所に保管してください。

●デート用に入れてある電池は、工場出荷時の電池です。電池の自然放電のため容量が少なくなっている場合があります。

液晶表示について

●高温の所へ保管したり、長時間置くことは避けてください。密閉された車の中や、暖房器の近くなどはご注意ください。

●約60℃の高温では液晶表示が黒くなることがありますが、常温に戻れば正常になります。

●低温下では、液晶の表示応答速度が遅くなることがありますが、これは液晶の性質によるもので、故障ではありません。

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仕様

データ写し込み方法——7セグメント6桁LCD(液晶)、フィルムの背面から写し込み
ワインダー連動可能

データの種類——「年月日」、「時ー分」、「-----」3モード切換え、押しボタン式、
オートカレンダー(年、大小の月、閏年は自動修正)
フィルム面上の文字高さ、約0.7㎜、文字幅0.4㎜(1数字)
「年月日」——(80～19)=1980～2019年、
月(1～12)　日(1～31)
「時ー分」——時(0～23)　分(00～59)　(クオーツ制御)
「-----」——データ写し込み中止

電源——JIS LR44アルカリマンガン電池、またはSR−44(G13)、銀電池2個

データ写し込み回数——約5000回、または約1年間

大きさ・重さ——116(幅)×66.5(高)×53(厚)㎜　290g(電池なし)

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☆記載内容の仕様などの一部が変更される場合があります。

02-8309



Batteries

- When inserting the batteries, make sure that the polarities are properly aligned. Misinsertion may cause leakage or other battery damage.
- Replace both batteries at the same time. Do not mix battery types, makers, or old and new batteries as this lowers performance and increases the possibility of leakage and subsequent damage.
- Remove batteries when not using the PC35AF DATE over a long period of time to insure against leakage and camera damage. Store batteries in a cool place, and out of the reach of children.

Precautions

Before loading film:

- Release shutter with the data back closed, and confirm that battery check lamp (red) is lit.
- Any film speed (ASA/ISO), from 64 to 400, may be used for data recording with the PC35AF DATE.

Photographing:

- If the data printing section in the picture area is too bright, the recorded data may become difficult to discern. Frame the picture area so that reflections and/or white objects may not overlap the data recording section.
- Year/mon/day and Hour/-/min data cannot be simultaneously imprinted on the same picture.
- Before shooting, be sure to check the battery condition.
- When the shutter is released, the battery check lamp will glow and the word "PRINT" will appear on the liquid crystal display, indicating that the data have been recorded.

Liquid crystal display (LCD)

- Do not leave or keep PC35AF DATE in a high temperature location over a long period of time as this may adversely affect the LCD. For example: an enclosed car exposed to the heat of the sun, or near a heating unit.
- When the LCD is exposed to a high temperature of around 60°C, it may blacken, however, when temperature lowers, it will return to normal function.
- The liquid crystal display will also tend to slow down in its response to electric signals at a low temperature. This is an inherent characteristic of liquid crystals and is not a fault.

Specification

Data recording system: An internal recording lamp records information onto the reverse side of films during photographic functions, by utilizing 6-digit liquid crystal characters. Data recording is possible even when utilizing the winder.

Data imprinting modes: Push buttons to set unit to any of three modes: "Year/Mon/Day", "Hour/Min", or "-----" (blank). The year, leap year, and months (odd or even numbered days) are automatically adjusted.
Year/Mon/Day mode: Year ("80" to "19" - 1980 to 2019; Month ("1" to "12"); Day ("1" to "31")
Hour/Min mode: Hour ("0" to "23"); Minute ("00" to "59");
Blank mode: "-----" (no data imprinted)

Power source: Two LR-44 alkaline or SR-44 (G13) silver-oxide batteries.

Number of recordings: Approx. 5,000 recordings; normally, a year's operation

Size & weight: 116 (w) x 66.5 (h) x 53 (d)mm; 290g (without batteries)

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Specifications are subject to change without notice.

9/83 Printed in Japan