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PENTAX®

67II

OPERATING MANUAL



Welcome to the Fantastic World of Pentax Medium Format Photography

This medium format 67II camera gives an image area four times larger than that of the 35mm SLR camera, assuring the photographer of fine-grained, superior quality image definition on enlargements.

The Aperture-Priority AE Mode and the metering mode of the multi (6) segment, Center-weighted and the spot metering modes are available when the AE Pentaprism Finder 67II is attached.

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

The operating manual explains the camera with an optional AE Pentaprism 67II attached.

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.

Icon indicators used in this manual







Operation direction	
Automatic operation	
Attention	
Lamp blinking	
Correct	
Incorrect	

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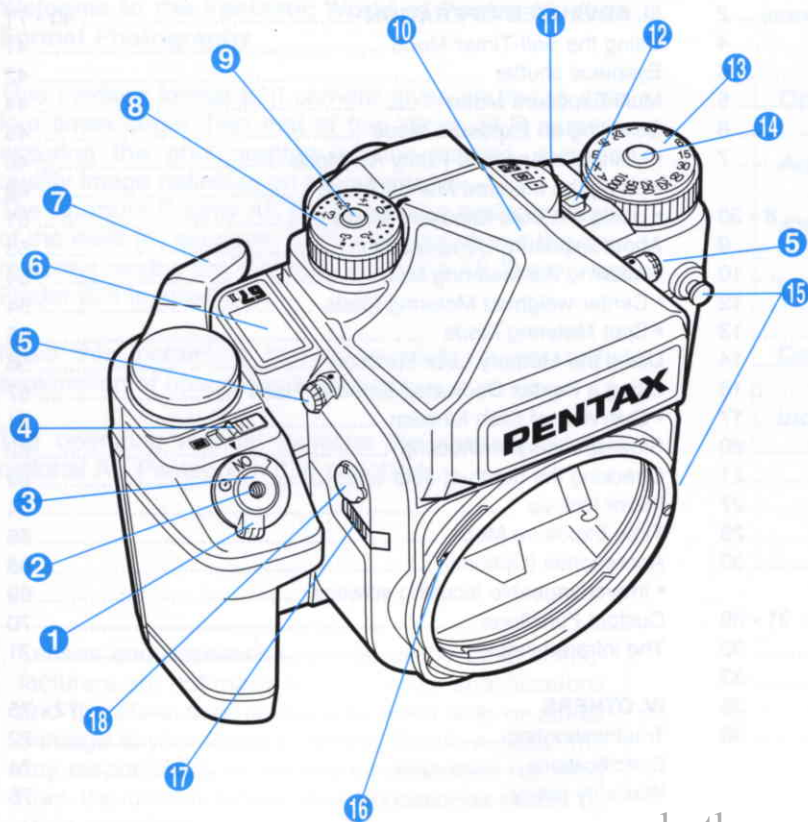
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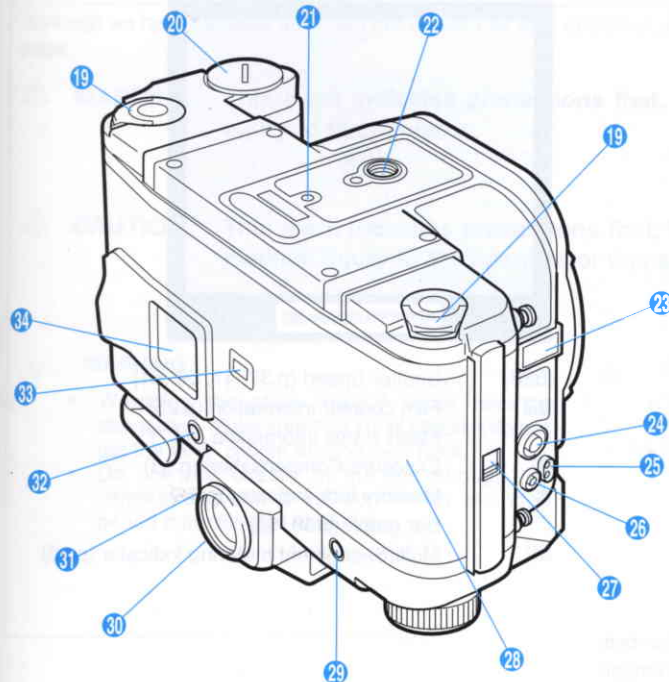
NAMES OF WORKING PARTS I



- 1 Main switch (p.12,41)
- 2 Cable release socket (p.52)
- 3 Shutter release button (p.16)
- 4 Multi-exposure lever (p.44)
- 5 Viewfinder unlock button (p.19)
- 6 LCD panel (p.4)
- 7 Wind lever (p.24,44)
- 8 Exposure compensation dial (p.53)
- 9 Exposure compensation dial release button (p.53)
- 10 AE Pentaprism Finder 67 II (p.17)
- 11 Metering mode switch (p.33,54,55)
- 12 Film speed set lever (p.20)
- 13 Shutter speed dial (p.32,48,51)
- 14 Shutter speed dial lock button (p.32,46,48,49)
- 15 Strap lug (p.9)
- 16 Lens mount index (p.14)
- 17 Time exposure set lever (p.66)
- 18 Mirror lock-up lever (p.64)

NAMES OF WORKING PARTS II

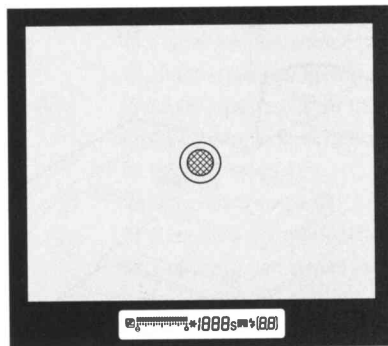
3











- 19 Film spool retainer (p.22)
- 20 Battery chamber cover (p.10)
- 21 Accessory guide hole
- 22 Tripod socket
- 23 Lens release lever (p.15)
- 24 5Psync terminal (p.57)
- 25 Dedicated flash contacts
- 26 X-sync terminal (p.58)
- 27 Back cover release lever (p.21)
- 28 Back cover
- 29 Film speed set button (p.20)
- 30 Diopter adjustment dial (p.29)
- 31 Eyepiece shutter lever (p.42)
- 32 Memory lock button (p.56)
- 33 Film type indicator (p.21)
- 34 Memo holder (p.25)

LCD PANEL INDICATION

VIEWFINDER INDICATION



- 88** : Frame counter (p.25)
- 8888** : Film speed information (p.20)
- ISO** : Film speed set information (p.20)
-  : Battery exhaustion warning (p.13)
- FILM** : Film loading confirmation (p.25)
-  : Film advance indication (p.39)
-  : Flash status information (p.57)

- 1888s** : Shutter Speed (p.37, 47, 50 ,51)
- [88]** : Film counter information (p.25)
-  : Flash status information (p.57)
-  : Exposure Compensation (p.53)
-  : Memory lock indicator (p.56)
-  : Bar graph (p.50, 53)
-  : Multi(6)-segment metering indicator (p.33)

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.

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



WARNING

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



CAUTION

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



WARNING

- 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.



CAUTION

- Never try to disassemble, short or recharge 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 to 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.

Precautions for storage

- Avoid leaving the camera for extended periods 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.

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 every one 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 CR123A lithium batteries.
- 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.
- Replace the batteries at the same time. Do not mix battery brands, types, or old batteries with new ones, as this may cause explosion or overheating.

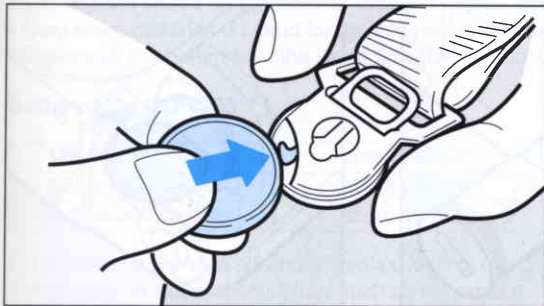
I. BASIC OPERATION (PREPARATION)

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ATTACHING THE CAMERA STRAP

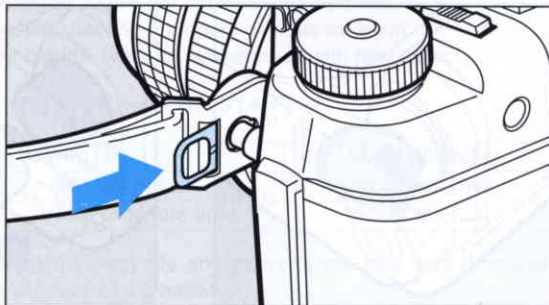
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1



1. Slide the illustrated part of the clasp in the direction of arrow by using a coin or similar object.

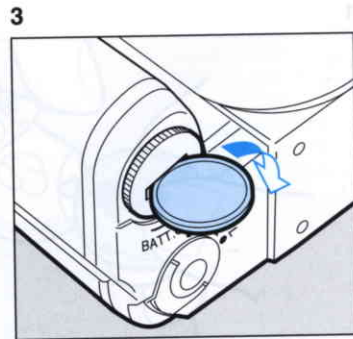
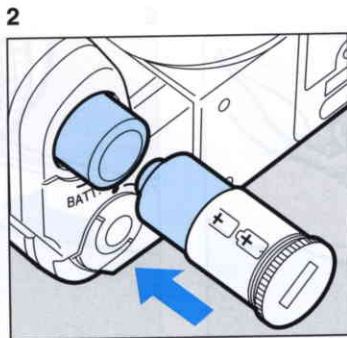
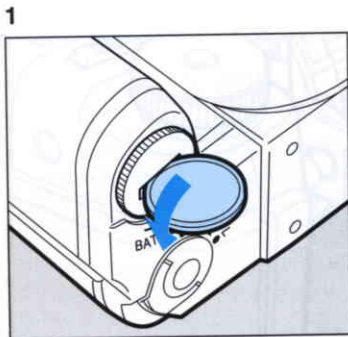
2



2. Put the clasp onto the strap lug with its black surface side facing out, and return the lock plate to the original position. It will securely attach to the strap lug.

- Adjust the length of the strap with the buckle.
- To remove the strap, slide the lock plate with a coin or similar object (as in step 1, above)
- After fitting the strap and adjusting the length, pull the strap hard to confirm if the strap has securely attached to the camera.

LOADING THE BATTERIES



1. Remove the battery chamber cover by using a coin or similar object as shown in the illustration.
2. Load two 3V lithium batteries (CR123A or the equivalent) as shown in the illustration.
3. Turn the battery chamber cover in the direction of the arrow to lock it securely.

- This camera requires battery power for operation. Always use two CR123A lithium batteries.
- The ISO film speed and number of exposed frames are unchanged even if the batteries are replaced.
- Keep spare batteries on hand for replacement convenience when shooting out doors or while traveling.
- Replace all the batteries at the same time. Do not mix battery brands, types or old batteries with new ones.

Battery Life (20°C/68°F)

120 film:	about 500 rolls
220 film:	about 250 rolls
Bulb exposure time:	about 13 hours

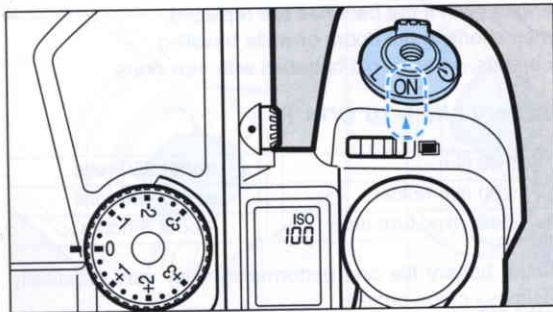
Battery Life (-10°C/14°F)

120 film:	about 250 rolls
220 film holder:	about 120 rolls
Bulb exposure time:	about 6 hours

- The batteries were used under Pentax testing conditions. Actual battery life and performance may vary drastically depending on external conditions such as temperature and freshness of the battery.
- Battery performance may be temporarily hindered in low temperatures, but should recover in normal temperatures.

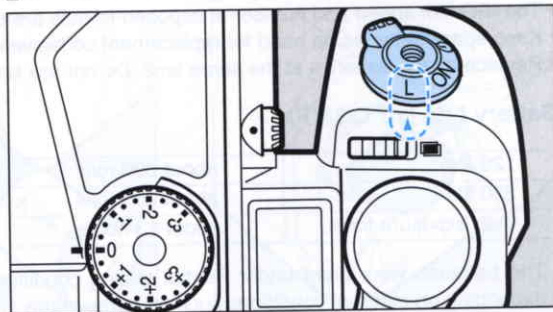
TURNING THE POWER ON

1



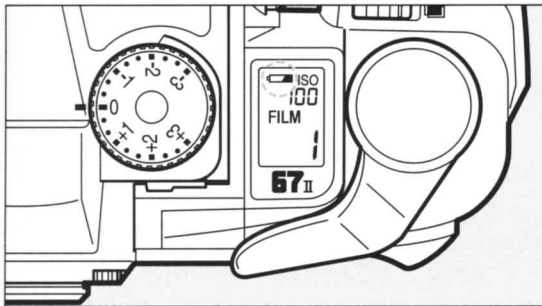
1. Set the main switch to [ON].

2





2. The power is turned off when the main switch is set to [L].

- When the camera is not in use, make sure that the main switch is set to L to prevent battery drain if the shutter release button is accidentally depressed.



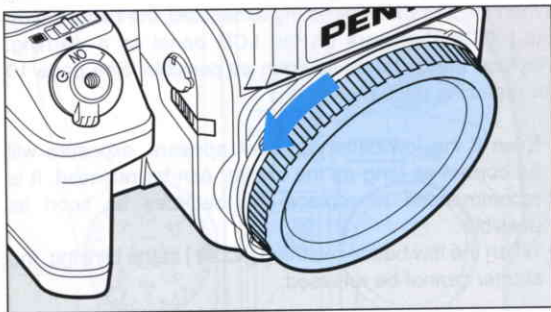
* Low Battery Warning

When the batteries are nearly exhausted, the battery symbol [] appears on the LCD panel as a warning. Replace the batteries as soon as possible. See page 10 for replacing the batteries.

- Even if the low-battery symbol appears, exposure will be correct as long as the shutter can be released. It is recommended to replace the batteries as soon as possible.
- When the low battery warning [] starts blinking, the shutter cannot be released.

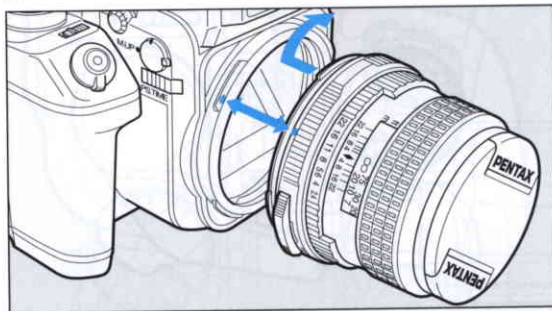
ATTACHING THE LENS

1



1. Remove the body mount cap by turning it in the direction of the arrow.

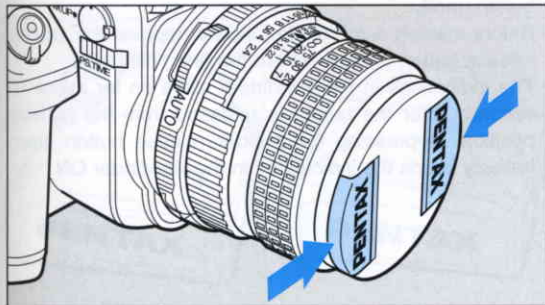
2



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.

- For outer bayonet lenses, please refer to the operating manual, 67 INTERCHANGEABLE LENSES.

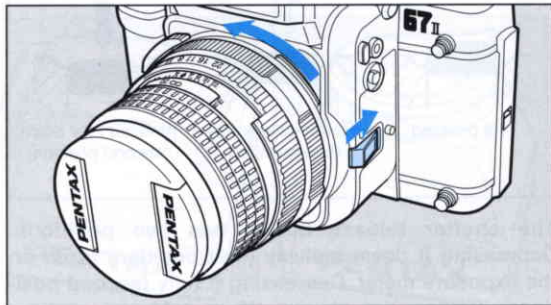
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3. To remove the front lens cap, squeeze the tabs on both sides in the direction of the arrow.

- We assume no responsibility nor liability for damages resulting from the use of lenses made by other manufacturers.

*

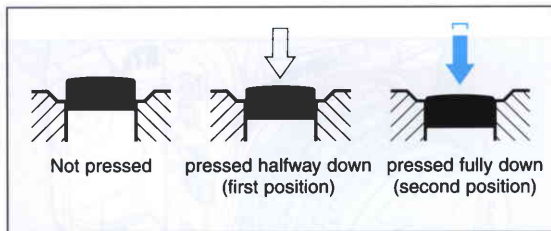


* How to remove

To remove the lens, turn it to the left while depressing the lens release lever.

- To protect the lens against damage after removal, be sure to set the lens down with the mount side facing upward.

DEPRESSING THE SHUTTER RELEASE BUTTON

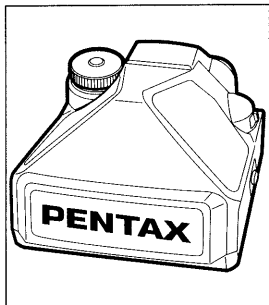


The shutter release button has two positions. Depressing it down halfway (first position) turns on the exposure meter. Depressing it fully (second position) releases the shutter. When taking a picture, depress the shutter release button gently to prevent camera shake.

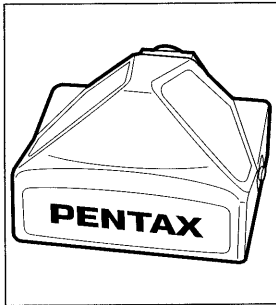
- To prevent camera shake, depress the shutter release button gently.
- Before loading a roll of film, slowly depress the shutter release button to learn where the first position is.
- The indications in the viewfinder stays on for about 10 seconds after the button is released from the halfway position.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

ABOUT INTERCHANGEABLE VIEWFINDER

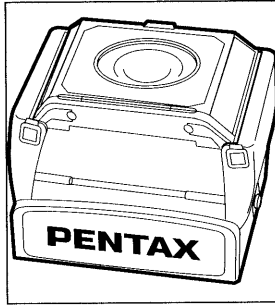
Four types of optional interchangeable viewfinders are available.



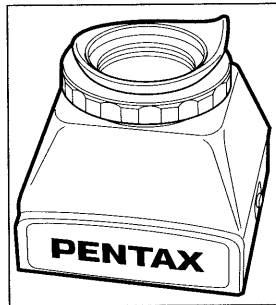
AE Pentaprism Finder 67 II



Pentaprism Finder 67 II



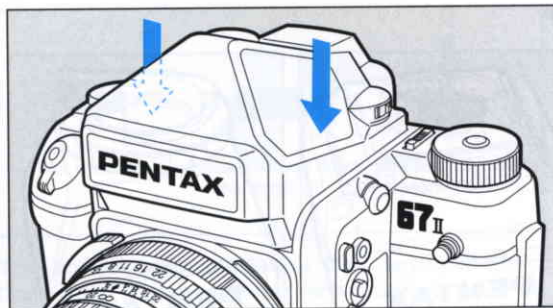
Folding Focusing Hood 67 II



Rigid Magnifying Hood 67 II

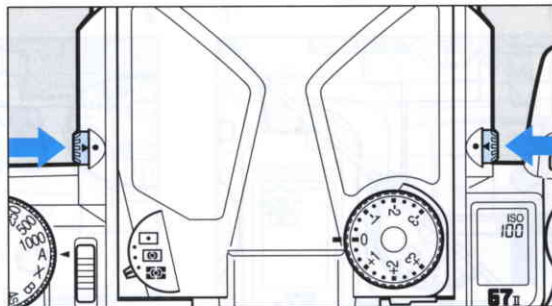
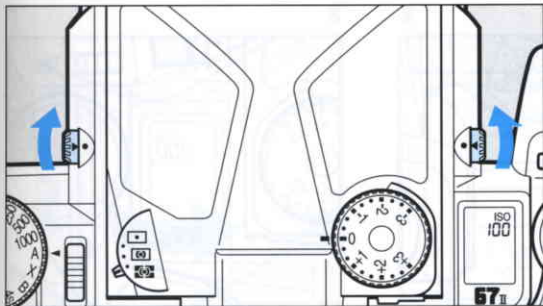
BASIC OPERATION (PREPARATION)

- When the AE Pentaprism Finder 67 II is attached to the 67 II camera, the Aperture-Priority AE Mode and the Metered Manual Mode are usable.
- The Pentaprism Finder, Folding Focusing Hood or Rigid Magnifying Hood used for the 67 camera can also be attached to the 67 II camera.
- The TTL Pentaprism Finder used for the 67 camera cannot be used to the 67 II camera.

**Attaching the viewfinder**

Place the viewfinder on the upper part of the camera as illustrated and press it down until it clicks two times.

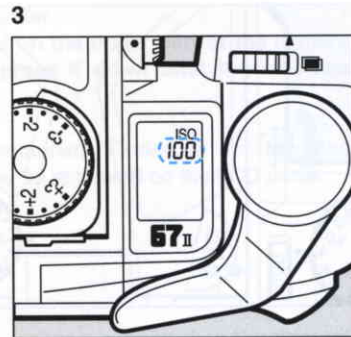
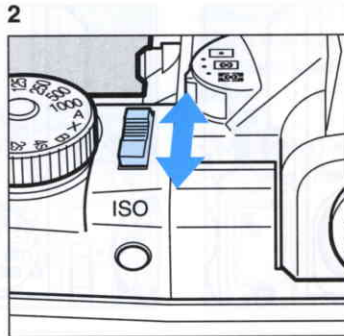
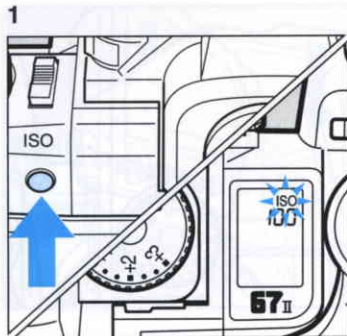
- When the AE Pentaprism Finder is not attached properly, [Perr] may be appeared on the LCD panel.



Detaching the viewfinder

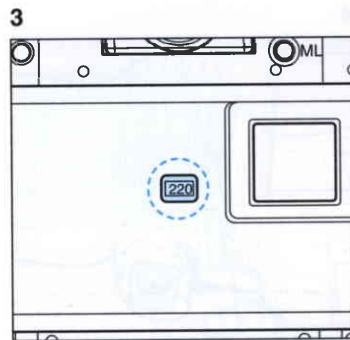
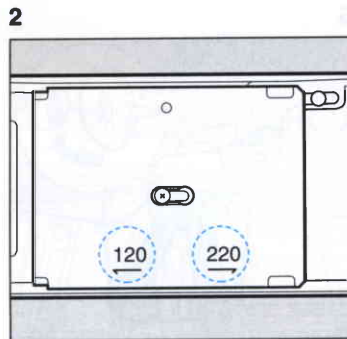
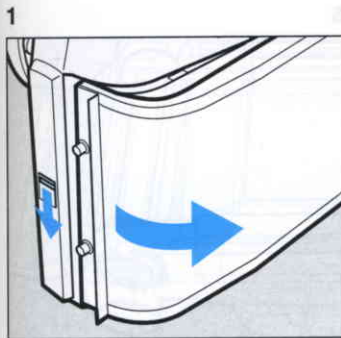
To detach the viewfinder from the camera, turn the viewfinder unlock button in the direction of the arrow to align the red dots on the camera and then depress the viewfinder unlock button.

SETTING THE FILM SPEED (ISO)



1. Set the main switch to ON and depress the film speed set button. The ISO indicator on the LCD panel blinks.
2. While depressing the film speed set button, move the film speed set lever. To change the film speed to a larger number (higher film speed), move the lever toward the front repeatedly until the desired ISO appears on the LCD panel. To change the film speed to a smaller number (lower film speed), move the lever toward the back repeatedly until the desired film speed appears on the LCD panel.
3. After the desired film speed is set, release the finger from the film speed set button.

- Holding the lever will change the film speed continuously.
- The film speed setting range is ISO 6 to 6400 in 1/3 EV step increments.
- [ISO] and film speed are always displayed on the LCD panel when the main switch set to the ON position.

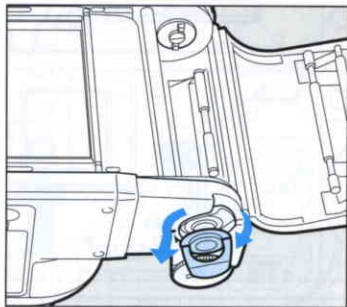


Be sure to set the proper film speed before the film is loaded. See page 20 for setting the film speed.

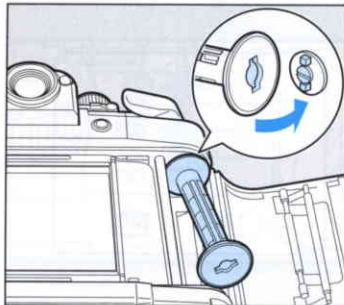
1. Open the back cover by sliding the back cover release lever.
2. Depress and shift the pressure plate according to the film type (120 or 220) you use.
3. The pressure plate you set will indicate the film information window.

- Film drag will occur when the pressure plate (220) is set for a 120 film or imprecise focusing will occur when the pressure plate (120) is set for a 220 film.

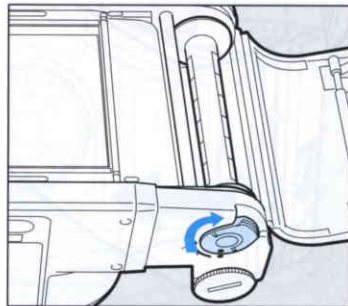
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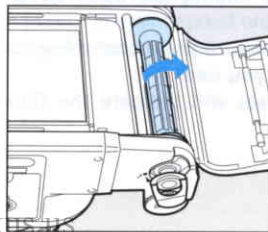


6



4. Unfold the crank of the film spool retainer knob, turn the knob to the left and pull down.
5. Install the emptied spool to the spool retainer as illustrated.
6. Push in the film spool retainer knob and turn it to the direction of the arrow.

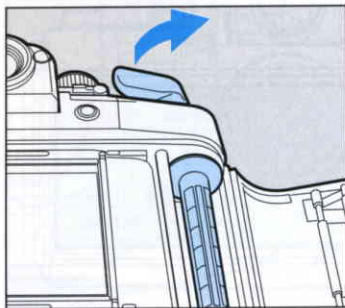
- If the film spool retainer knob does not fit in the proper position, turn the spool in the direction of the arrow as shown in the illustration.



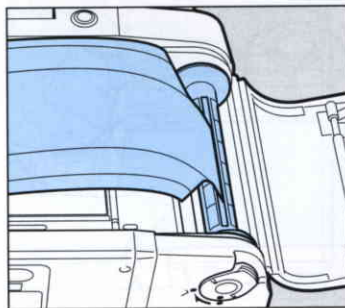
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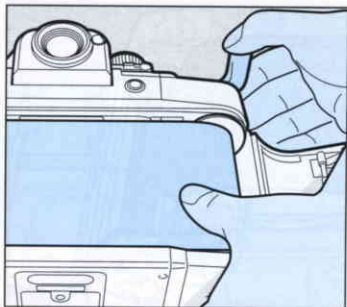


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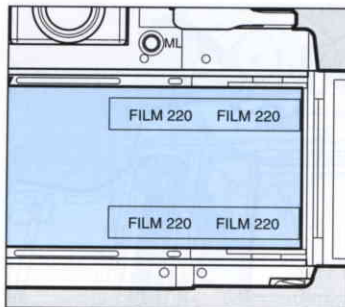


7. Tear off the tape from the film and install the film to the spool retainer in the same manner as installing the emptied spool so that the letters on the leader paper are facing outwards.
8. Turn the wind lever until the slot of the empty spool faces upward.
9. Draw the film leader from the film roll, and insert the tip of the leader into the spool's slit.

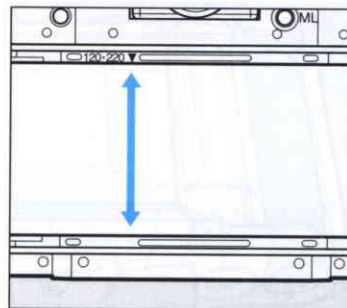
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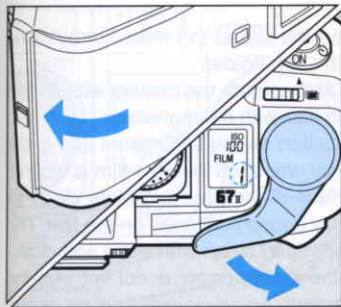


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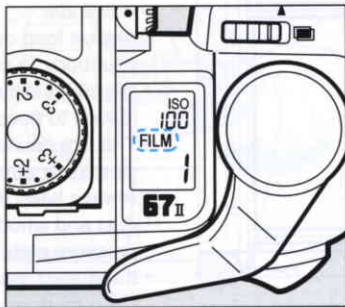


10. Turn the wind lever while lightly pressing the film leader.
11. Confirm that the film leader is evenly wound onto the spool.
12. Turn the wind lever until the arrow marking on the leader paper aligns with the (▼) mark on the camera.

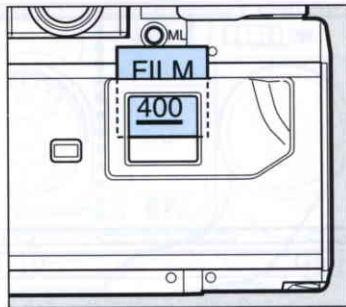
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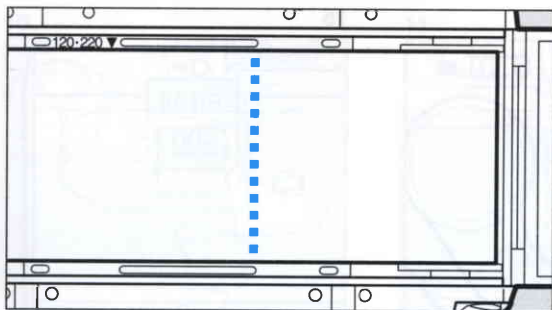
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15

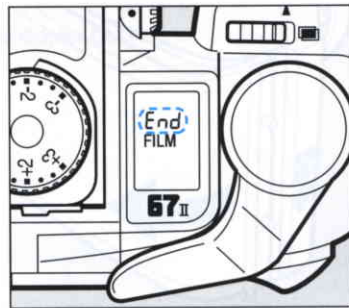
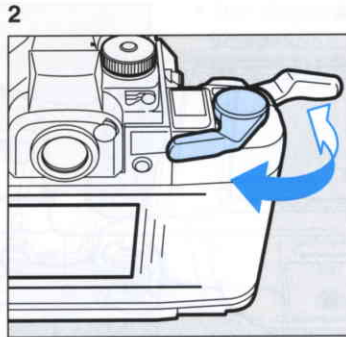
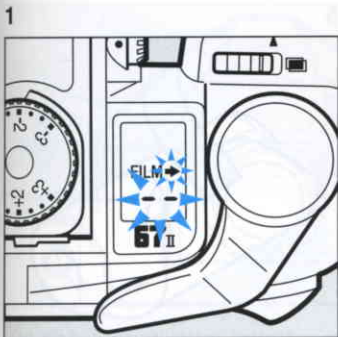


13. Close the back cover. Keep turning the wind lever until the wind lever stops. The film counter indicates [1].
14. [1] appears on the LCD panel when the film is properly loaded.
15. You can tear off the end cover of the film package indicating the type of film and speed and insert it into the memo holder provided on the back cover to remind you of the film type/speed that you are using.



With a 220 film loaded, the dot marks appear before the arrow marking. If the dot marks align with the start mark on the camera, the first 3 frames will not be exposed.

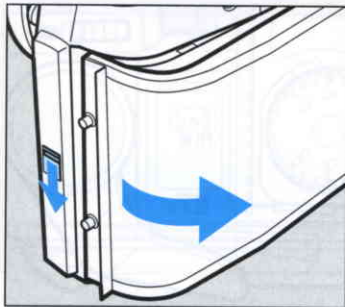
- The film counter indication is also displayed in the viewfinder.
- Always load or unload the film in the shade or by using your body to shade the film holder.
- We suggest that you first operate the camera with no film loaded to become familiar with its operations.
- The film counter indication on the LCD panel and in the viewfinder advances by one each time the film is wound.
- Always keep the surface of the pressure plate clean as dust and smudges may cause scratches on the film. The pressure plate can be wiped clean with a dry soft cloth.
- If the start mark on the leader paper is not set with the (▼) mark on the camera, you may lose the first or last frame(s) on the roll.
- 10 pictures are taken with the 120 film and 21 pictures are taken with the 220 film.
- To release the shutter with the back cover opened, cock the shutter while holding down the multi-exposure lever in the [] position.



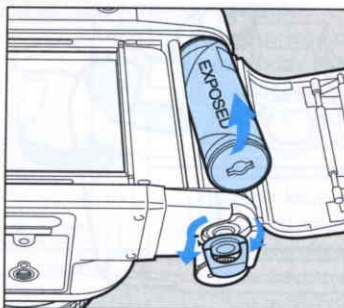
1. After the last frame of the roll is exposed, [➡] on the LCD panel blinks.

2. Wind the leader paper until [End] appears on the LCD panel.

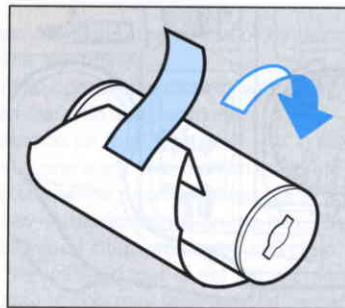
3



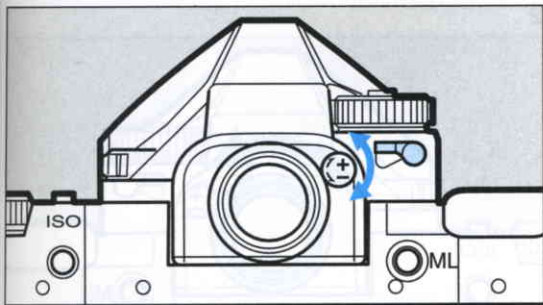
4



5



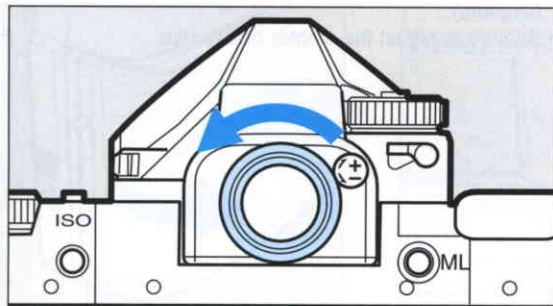
3. Confirm that [End] is displayed on the LCD panel.
Open the back cover.
 4. Unfold the crank of the film spool retainer knob, turn the knob to the left and pull down.
 5. While firmly holding the wound film roll, fold the end of leader paper and then affix the paper seal securely on the back of the paper leader to prevent accidental unwinding of the exposed roll.
- Remove the film in the shade or by using your body to shade the camera.



Aim the camera at a bright subject. While looking through the viewfinder, turn the diopter adjustment dial to the left or right until the micropism grid appears in the sharpest focus.

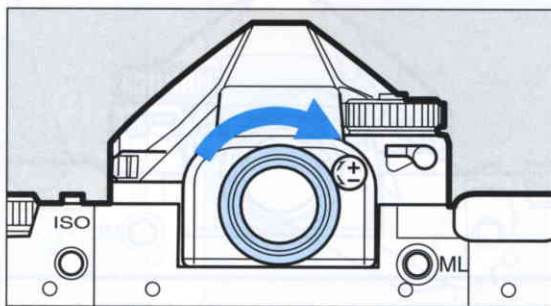
- The diopter adjustment range is +1.5D to -2.5D (diopters).
- Be sure to adjust the diopter before use.

1



1. Turn the rubberized eyepiece frame to the left and remove it.

2



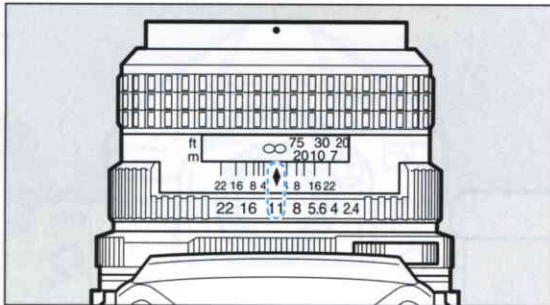
2. Install the desired correction lens as illustrated.

- The diopter adjustment range can be changed from -1.5D to -5.5D or +3.5D to -1.5D by changing the optional correction lenses.



II. BASIC OPERATION (SHOOTING)

1

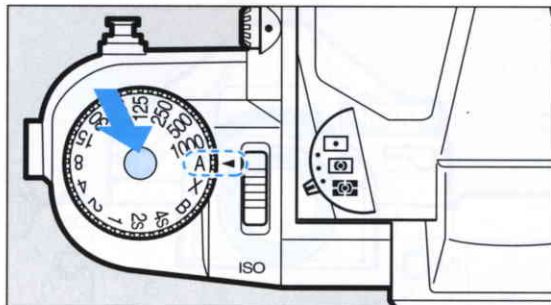


When the desired aperture is selected, an appropriate shutter speed is automatically set by the camera for a proper exposure.

How to

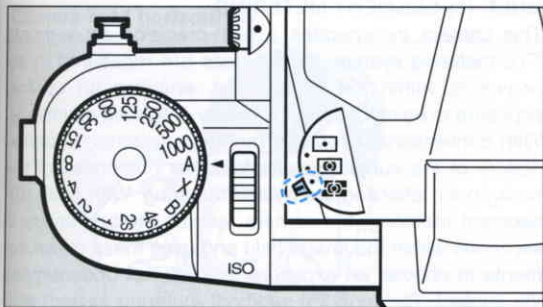
1. Set the lens aperture ring to the desired f-stop.

2



2. Turn the shutter speed dial to [A] while holding down the shutter speed dial lock button.

- The shutter speed dial can be released from [A] to another position in the same manner as above.
- See Page 48 for the Metered Manual Mode.
- The Aperture-Priority AE Mode does not operate unless the AE Pentaprism Finder 67 II is attached.
- When the shutter speed dial is set to [A] without attaching the AE Pentaprism Finder 67 II, the shutter speed will be set at 1/30 of second.



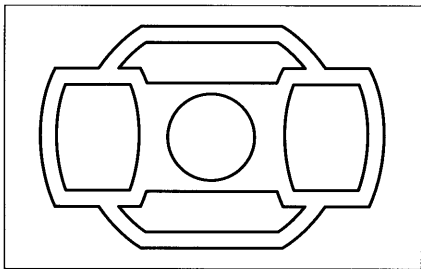
In the multi (6)-segment metering mode, the metering system automatically measures light in six different zones, enabling proper exposure value in a wide variety of normal and adverse lighting conditions.

Set the metering mode switch to [].



[] is displayed in the viewfinder.

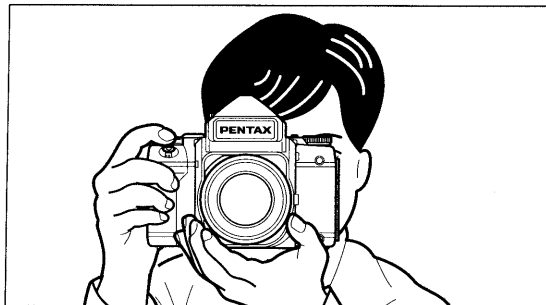
- The center-weighted metering mode and spot metering mode are also available in this camera. See page 54 and 55 for more details.



This camera incorporates a high-precision six-segment TTL metering system. Light values are measured in six segments within the image field, enabling an optimal exposure to be made under a variety of lighting conditions. With conventional averaged metering systems, underexposure of the subject results from the brightness of the background affecting the overall metering. With multi (6)-segment metering, the camera records the brightness in six zones within the image field and uses these measurements to choose an exposure that will not underexpose the subject. The multi (6)-segment metering system also calculates exposure values for a scene to automatically compensate for high-contrast and other difficult lighting conditions. Even a beginner can achieve excellent results with ease.

HOLDING THE CAMERA

Camera held horizontally

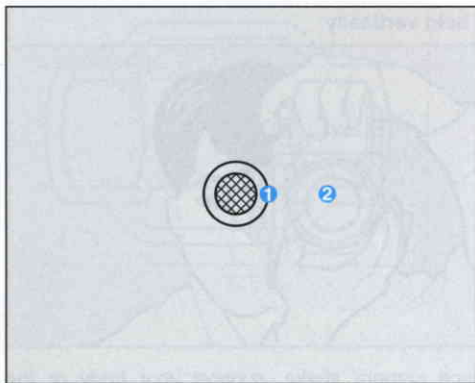


Hold the camera firmly, with your left hand supporting the camera and lens as shown in the illustrations. While taking a picture, hold your breath and gently depress the shutter release button. (Sudden force on the shutter release button will cause camera shake, making the picture blurred.)

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.
- 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, 1/75 of second when the focal length is 75mm, and 1/150 of second when it is 150mm. A tripod should be used for shutter speeds slower than this.
- 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.
- When the tripod is used, use of an optional Cable Release is recommended.



You can use ① or ② for focusing.

① Microprism field

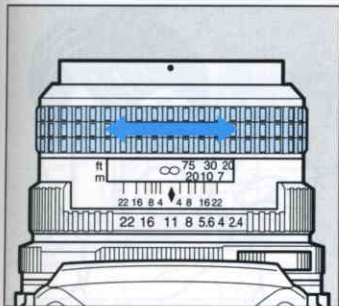
Turn the focusing ring until the image on the microprism appears sharp and crisp.

② Matte field

Turn the focusing ring until the image on the matte field appears sharp and crisp.

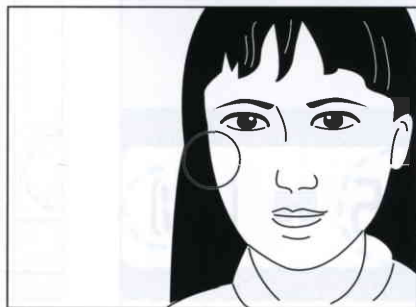
- Be sure to adjust the diopter before use. See page 29.

1

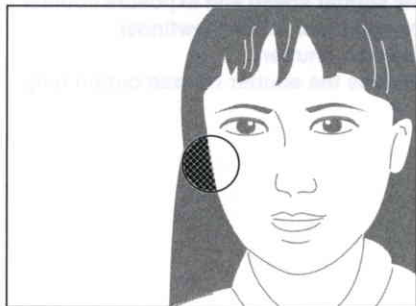


1. While looking through the viewfinder, turn the focusing ring to the right or left until the image appears in sharp and crisp.

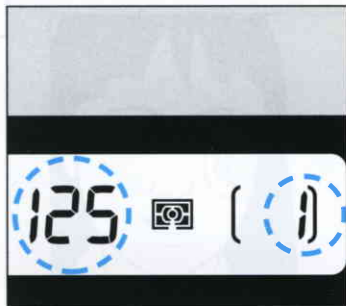
In focus



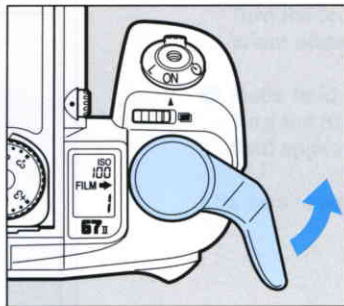
Out of focus



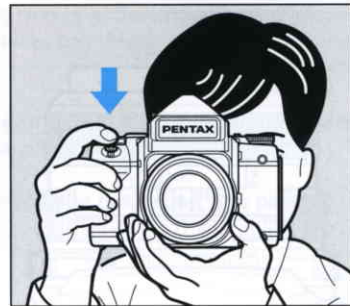
2



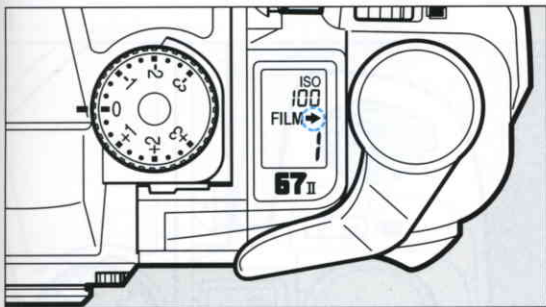
3



4



2. Depress the shutter release button halfway down.
The shutter speed and exposure counter indication are displayed in the viewfinder.
3. Cock the shutter.
4. Depress the shutter release button fully.



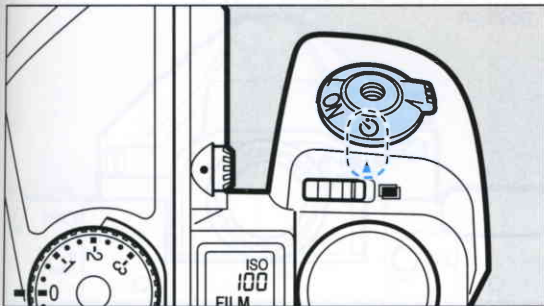
When the shutter is in the uncocked position, the film advance indicator [➡] appears on the LCD panel.



III. ADVANCED OPERATIONS

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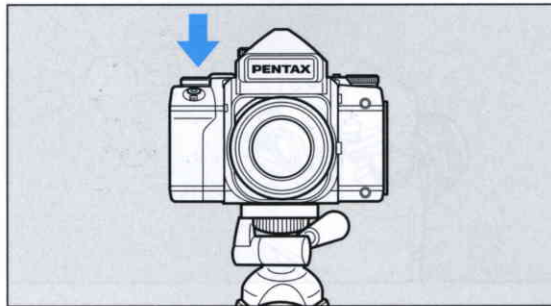
1



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.

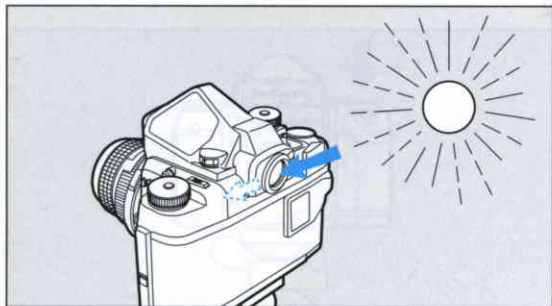
1. Set the main switch to [].

2



2. Focus on the subject and then depress the shutter release button fully.

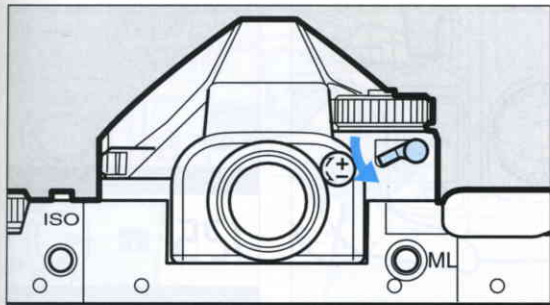
- The shutter will be released about 12 seconds later.
- When the self-timer is in operation, the audible PCV signal is heard and the rate increases for the last two seconds.
- To cancel the self-timer operation after it has been activated, move the main switch to [ON] or [L].



When using the camera in a situation where your eye will not remain at the viewfinder when taking the picture, such as in the self-timer mode or in macro photography, stray light may enter the viewfinder causing an incorrect exposure. Using the eyepiece shutter will block any stray light, assuring a proper exposure.

- In normal photography, set the eyepiece shutter to the up position.

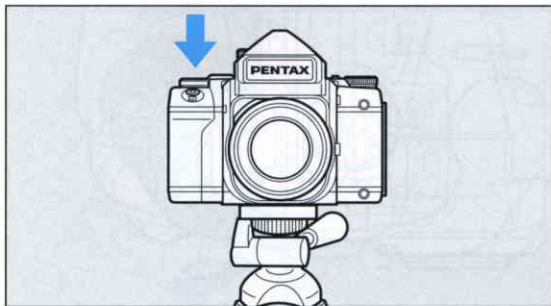
1



Focus on the subject.

1. Set the eyepiece shutter to the down position before depressing the shutter release button.

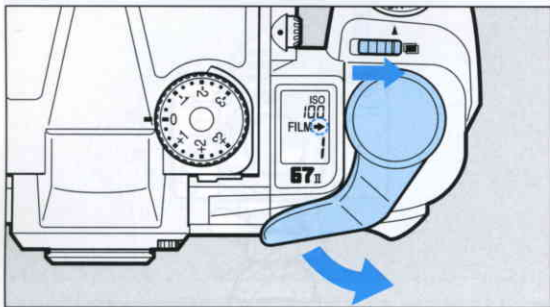
2



2. Depress the shutter release button.

MULTIPLE - EXPOSURE MODE

1

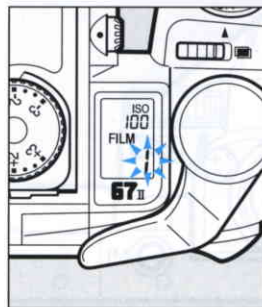


Make the first exposure normally.

1. To exposure the second shot, move the multi-exposure lever in the direction of the arrow. Cock the shutter while holding down the multi-exposure lever.

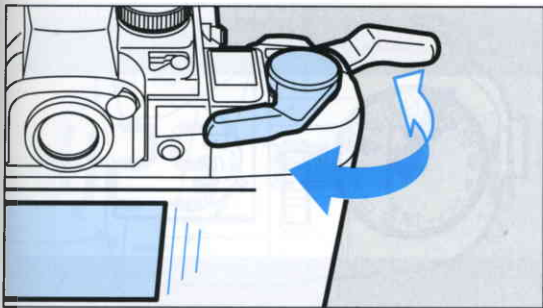
- When the film is wound halfway, you can release a finger from the multi-exposure lever. The lever stays in the lock position and the frame counter indication blinks.

2



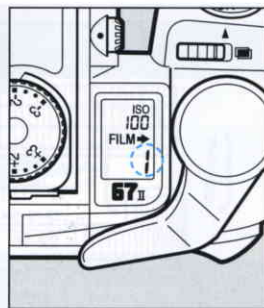
2. The frame counter indication in the viewfinder and on the LCD panel blink.

3



3. The film does not advance at this stage.

4



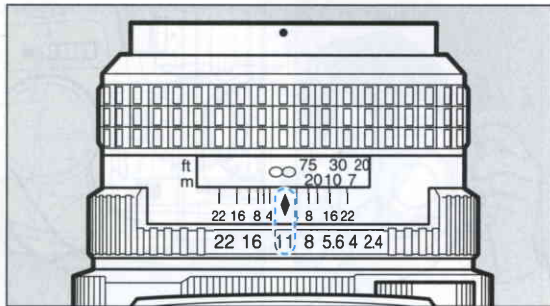
4. Depress the shutter release button to shoot the second shot. The frame counter indication stops blinking.

Notes:

- To exposure the third shot, set the multi-exposure lever in the lock position in the same manner as step 1 after taking the second shot. The multi-exposure lever returns to the original position. The film does not advance at this stage.
- When using the Multi-Exposure Mode, you usually get the best results using a flash to illuminate the main subject against a dimly-lit background.
- Once the Multi-Exposure Mode is set, it cannot be canceled until the next exposure is completed.

SELECTING AN EXPOSURE MODE

1



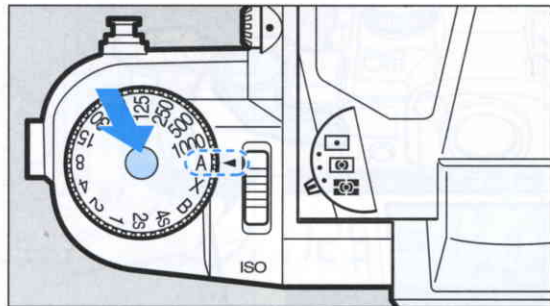
Using the Aperture-Priority AE Mode

When the desired aperture is selected, the camera automatically selects an appropriate shutter speed for a proper exposure.

How to

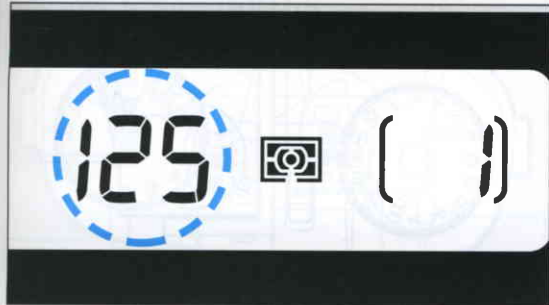
1. Set the lens aperture ring to the desired f-stop position.

2



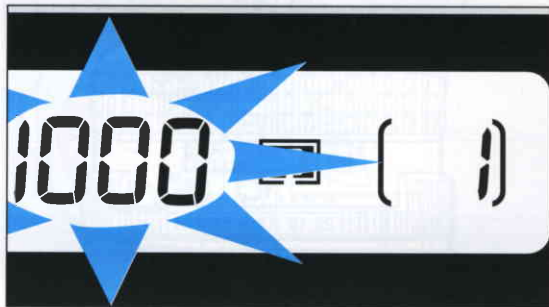
2. Turn the shutter speed dial to [A] while holding down the shutter speed dial lock button.

3



3. When the shutter release button is depressed halfway down, the shutter speed, the metering mode and the film counter information will be displayed in the viewfinder.

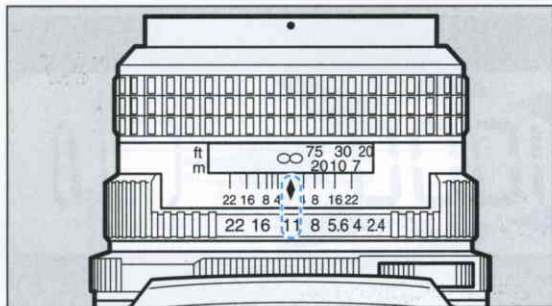
- The shutter speed dial can be released from [A] to another position while holding down the shutter speed dial lock button.
- The Aperture - Priority AE Mode does not operate unless the AE Pentaprism Finder 67 II is attached.



* Exposure Warning

If the subject is too bright or too dark, the selected shutter speed will blink in the viewfinder 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 a picture. If the shutter speed indication does not stop blinking, 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.

1



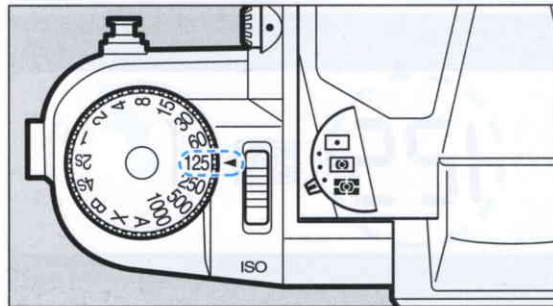
Using the Metered Manual Mode

The Metered Manual Mode is a convenient exposure mode for taking pictures using the same shutter speed and aperture setting combination, or taking creatively under or over exposed photographs.

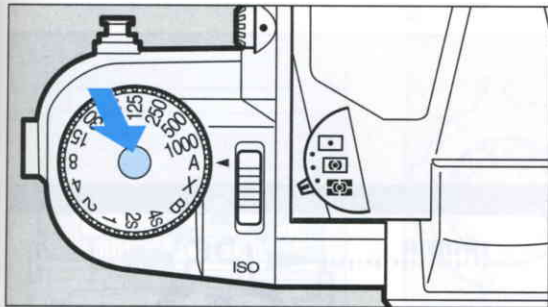
How to

1. Set the lens aperture ring to the desired f-stop setting.

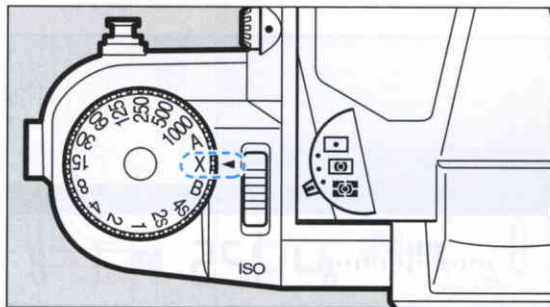
2



2. Set the shutter speed dial to the desired shutter speed.



To set the shutter speed dial to a position other than [A], turn the shutter speed dial while holding down the shutter speed dial lock button.



In flash photography, when you use the flash sync shutter speed of 1/30 second or a non-dedicated external flash unit, set the shutter speed dial to the [X] (1/30 of second) position.

3



3. When the shutter release button is depressed halfway, the shutter speed, the bar graph, the metering mode and film counter information will be displayed in the viewfinder.

- When the bars are displayed above the [⊕] side on the bar graph, it indicates overexposure and when the bars are displayed above the [⊖] side, it indicates underexposure. When a single bar is displayed in the center of the bar graph, it indicates correct exposure.
- Moving one bar above the bar graph indicates 0.3 step (0.3EV). However, when under or over exposure is set beyond + 3 or 3 steps (3EV), [⊕] or [⊖] indicator will blink.
- The Metered Manual Mode is only available with the AE Pentaprism Finder 67 II.

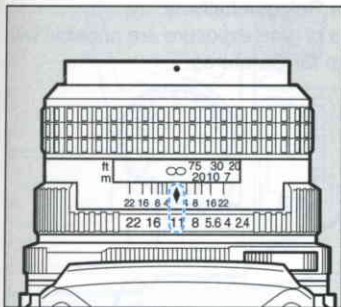
*



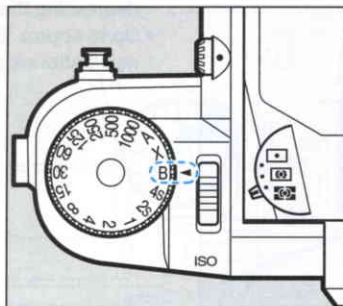
* Exposure Warning

If the subject is too bright or too dark, the selected shutter speed will blink in the viewfinder 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.

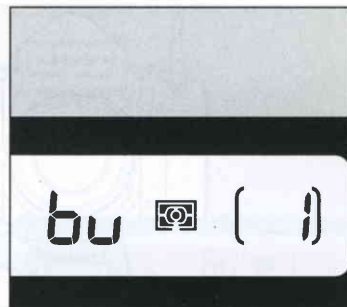
1



2



3



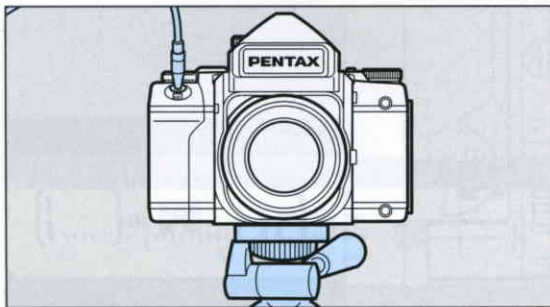
Using the Bulb Exposure Mode

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.

To set

1. Set the lens aperture ring to the desired f-stop.
2. Set the shutter speed dial to [B].
3. [Bu] will be displayed in the viewfinder when the shutter release button is depressed halfway.

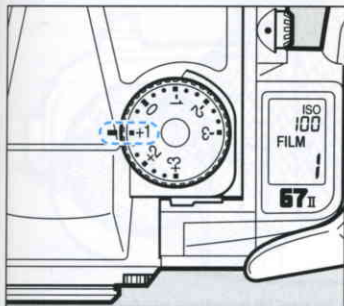
4



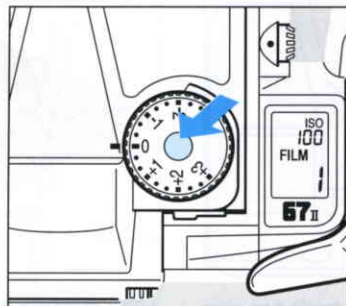
4. In the Bulb Exposure Mode, use a steady tripod to prevent camera shake and attach the optional "Cable Release".

- The Indications in the viewfinder can be light up by depressing the Cable Release halfway.
- Up to approx. 6 hours of time exposure are possible with new batteries at room temperatures.

1



2



3



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

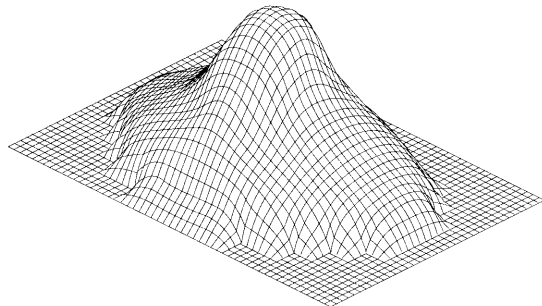
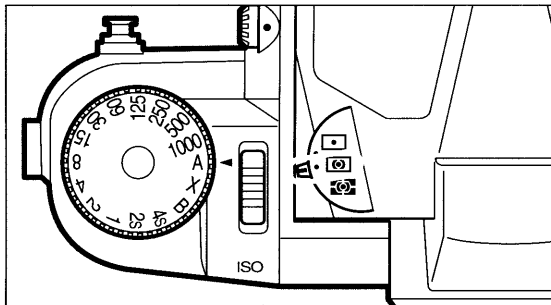
To set

1. Turn the exposure compensation dial to the desired compensation value.
2. The exposure compensation dial locks at the [0] position. To set the exposure compensation dial to a position other than the [0] position, turn the exposure compensation dial while holding down the exposure compensation dial release button.

3. The bar graph indicates the compensation value and [] appear in the viewfinder.

- Exposure compensation does not work in the Bulb Exposure Mode.
- The exposure compensation range is -3EV to +3EV in 0.3V steps.
- Moving one bar above the bar graph indicates a 0.3EV step.
- When exposure compensation is used in the Metered Manual Mode, the bar above the bar graph indicates the value of under or overexposure and [] is displayed in the viewfinder.

SWITCHING THE METERING MODE



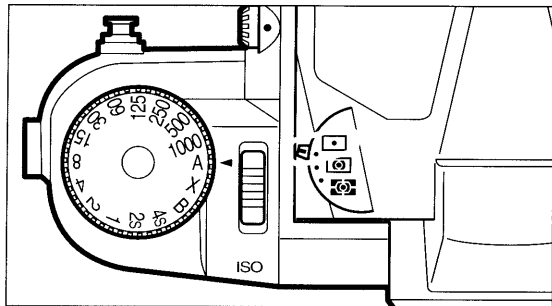
- The metering pattern in the illustration above shows that the upper part of the pattern (in the center of the viewfinder) has more sensitivity to light than the lower part.

Spot metering or center weighted metering mode can also be selected in this camera. Select the desired metering mode with the metering mode switch.

This metering system does not automatically compensate for backlighting or spotlighted scenes like the Multi (6) - Segment Metering Mode. Creative exposure control is determined by the user.

Set the metering mode switch to the [] position.

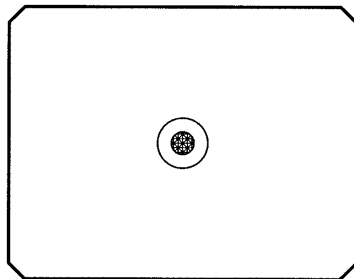
1



The Spot Metering Mode measures light only in the small area in the center of the viewfinder.

1. Set the metering mode switch to [].

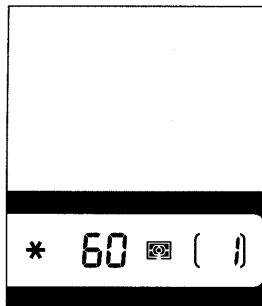
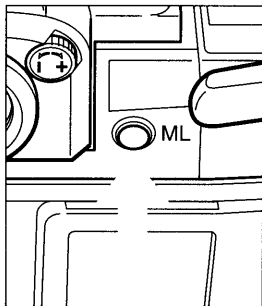
2



2. Measure with the small area of the viewfinder as illustrated.

- If the brightness range between areas in the photograph are too great, the exposure should be determined in consideration of the overall brightness. Otherwise, the picture will come out improperly exposed.

USING MEMORY LOCK FUNCTION



The memory lock function enables an exposure level to be memorized before shooting. The memory lock function is very effective when used along with spot metering. Use the memory lock function to get a correct exposure when the subject occupies only a small part of the viewfinder.

Position the area to be measured in the spot metering area and depress the memory lock button. The exposure level is memorized and [*] is displayed in the viewfinder.

- As soon as the memory lock button [ML] is depressed and the camera stores the measured exposure level for 20 seconds the memory lock button can be released.
- If the shutter release button is depressed halfway down while the memory lock timer is operating, the memorized meter reading will remain even if the memory lock button is released.
- The memory lock function cannot be used when the camera is set in the Metered Manual Mode.

To cancel the memory lock function, depress the memory lock button again.

USING A PENTAX DEDICATED EXTERNAL FLASH

Compatible flash units are AF500FTZ, AF330FTZ, AF400FTZ, AF240FT, AF280T and AF200T.

To use above flash units, an optional Hot shoe grip 67 II is required.

1. Attach the hot shoe grip 67 II to the camera.
2. Remove the hot shoe cover (FC).
3. Attach a Pentax dedicated flash unit to the hot shoe grip 67 II.
4. Connect the cord to the camera's 5P - sync terminal.

- To attach a Hot shoe grip 67 II to the camera, refer to the operating manual of Hot shoe grip 67 II.
- When the flash is fully charged, the flash sync speed of 1/30 second is set.
- When the shutter release button is depressed halfway down, ($\frac{1}{2}$) appears in the viewfinder and on the LCD panel.
- In the Aperture-Priority AE Mode, when the flash is fully charged, the Metered Manual Mode is automatically set. The bar graph indicates the exposure value for the background. See page 50 for the bar graph.
- For more details, read the flash's operating manual.

Using the AF400T flash unit

To attach the AF400T flash unit to the 67 II camera, an optional bracket for AF400T and 4P sync cord A are required.

1. **Attach the AF400T combined with the bracket for 400T to the camera.**
2. **Connect the 4P sync cord A to the X-sync terminal.**

- To attach a bracket for AF400T to the 67 camera II, refer to the operating manual of Bracket for AF400T.
- When the flash is fully charged, the flash sync speed of 1/30 second is set.
- When the shutter release button is depressed halfway down, ($\frac{1}{2}$) appears in the viewfinder and on the LCD panel.
- In the Aperture-Priority AE Mode, when the flash is fully charged, the Metered Manual Mode is automatically set. The bar graph indicates the exposure value for the background. See page 50 for the bar graph.
- For more details, read the flash's operating manual.
- When the AF200T or AF280T flash unit is attached to the hot shoe grip 67II, the flash unit can be used in the same manner as the AF400T.

Exposure compensation with the TTL flash mode used

In the Aperture-Priority AE Mode, if the exposure compensation is combined with the TTL flash unit, it is possible to adjust the brightness of the background and the brightness of the main subject simultaneously. However, in the Metered Manual Mode, exposure compensation changes only the amount of flash light.

AF200T, AF280T, and AF400T

- When using the Three-Level Auto (red, green, and yellow settings) mode, set the aperture value as shown in the table. The shutter speed will be set to 1/30 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

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 Type A with Type B, or Type C with Type D. (refer to the overview of Flash Function on page 61).

AF500FTZ and AF330FTZ

- In the Aperture-Priority AE Mode, when the flash is fully charged, the flash sync speed of 1/30 second is set.
- The auto zoom function does not function with this camera. Adjust the focal length manually.
- The AF500FTZ features a wireless slave-sync flash function.
- Multiple-burst flash is possible with the AF500FTZ.
- 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 will restart charging of the flash units.

AF240T and AF400FTZ

- In the Aperture-Priority AE Mode, when the flash is fully charged, the flash sync speed of 1/30 is set.
- When the flash is charged and left unused for about 5 minutes, the power automatically switches off to save battery power. Depressing the shutter release button halfway will restart charging of the flash unit.

AF200T, AF280T and AF400T

- The Three-Level Auto can also be used.
- In the Aperture-Priority AE Mode, when the flash is fully charged, the flash sync speed of 1/30 is set.

Overview of Flash Function

CAMERA FUNCTION	TYPE A	TYPE B	TYPE C	TYPE D
After the flash is charged, the camera automatically switches to the flash-sync speed.	○	○	○	○
Flash confirmation signal in the viewfinder	○	○		
TTL auto flash	○	○	○*1	
Slow-speed sync in the Shutter-Priority AE Mode or Metered Manual Mode	○	○	○	○
Trailing-shutter-curtain sync flash *2	○			
Contrast-control flash mode *2	○			

TYPE A: AF500FTZ(*3), AF330FTZ

TYPE B: AF400FTZ, AF240FT

TYPE C: AF400T, AF280T, AF220T, AF200T, AF080C,
AF140C, AF200SA, AF201SA

TYPE D: AF200S, AF160, AF140

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.

Notes:

*1. The AF200SA and AF201SA do not operate.

*2. The shutter speed is 1/15 or slower.

*3. Multi-burst and slave-sync flash are possible.

SLOW-SPEED-SYNC SHOOTING

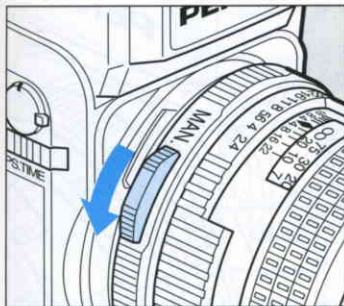
It is possible to balance the exposure of a foreground subject against a dimly-lit background by using the flash to properly expose the foreground subject and a slow-shutter-speed to expose the low light background.

To set

1. Set the camera's exposure mode to the Metered Manual Mode.
2. Turn the flash on.
3. Select an appropriate shutter speed (slower than 1/30 of second) and aperture combination for a correct exposure.
4. Release the shutter.

- In the slow-speed-sync shooting, use of a tripod is recommended to prevent camera shake.

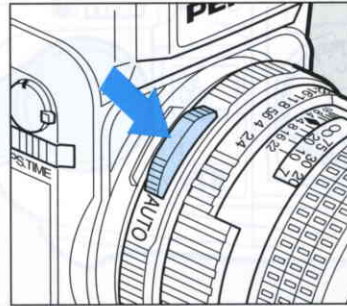
1



2



3



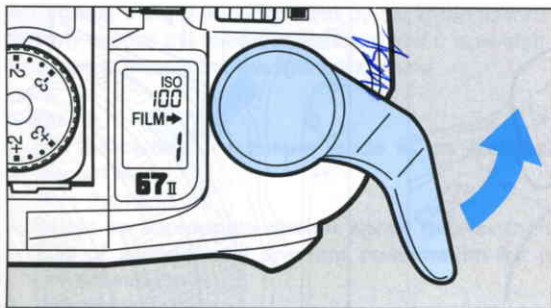
You can confirm the in-focus range through the viewfinder.

1. Slide the depth-of-preview lever on the lens until the letters (MAN.) appears and locks in the place.
2. The aperture will stop down to the preset value, and the depth of field can be confirmed through the viewfinder.
3. The lever will be returned to the original position by depressing the depth-of-preview lever.

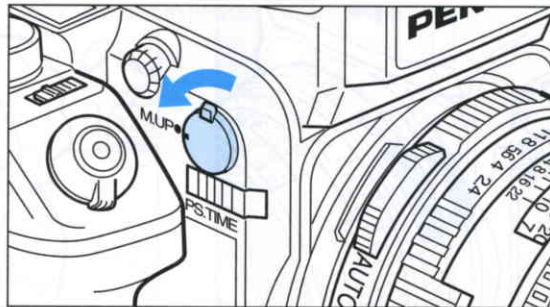
- When the depth-of-preview lever is set to the [MAN] position, the metering mode switches to the center-weighted metering mode automatically.

MIRROR LOCK-UP

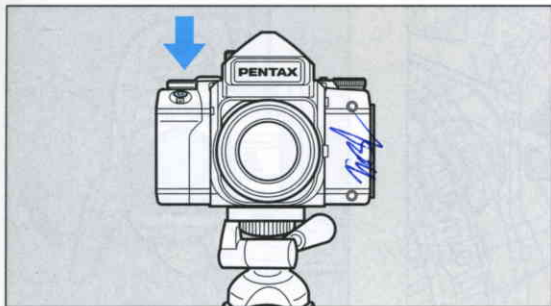
1



2



3



3. Release the shutter.

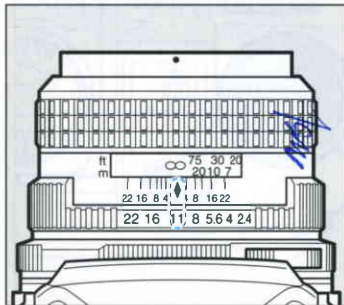
With the mirror in the locked-up position, the memory lock function automatically operates.

- Mirror lock up does not operate before winding the film.

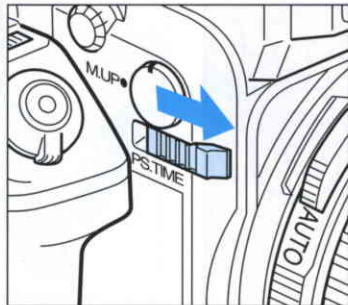


TIME EXPOSURE MODE

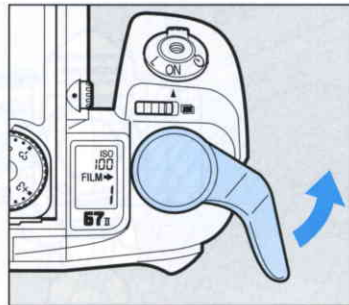
1



2



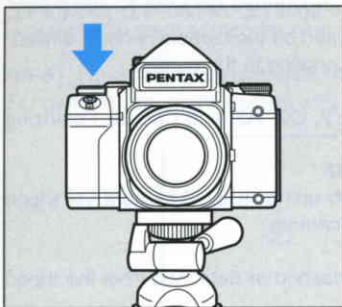
3



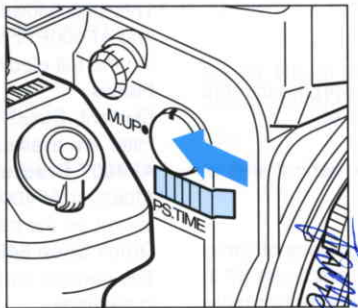
This mode is useful for the long exposures required for shooting night scenes and astronomical photography.

1. Set the lens aperture ring to the desired f-stop.
2. Slide the time-exposure set lever towards the front as shown in the illustration.
3. Wind the film.

4



5



4. Depress the shutter release button. The shutter remains open.
5. Slide the time exposure set lever to the original position. The time exposure finishes.

- In the Time Exposure Mode, the battery consumption is extremely minimized to save the batteries.
- When the batteries are exhausted, this function does not operate.
- The time exposure can be set at any of the shutter speed position.
- The time exposure mode can be combined with the mirror - lock up function.

ACCESSORIES (OPTIONAL)

A number of dedicated accessories are available for this camera.

Cable Release 30 and 50

A shutter release cable designed for use with the camera equipped with threaded cable release socket.

Magnifier 67

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

Refconverter 67

Right angle finder which attaches to the eyepiece of either the AE Pentaprism Finder 67 II or Pentaprism finder 67 II. The viewfinder can be switched vertically and horizontally.

AF500FTZ

A TTL Auto Zoom flash with a built-in AF spot beam and large guide number of 50 in meters (ISO 100). It features 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 spot beam and guide number of 33 in meters (ISO 100). It features contrast-control-sync flash sync, leading/trailing-curtain-sync flash mode.

Hot shoe grip 67 II

This grip allows the AF500FTZ, AF330FTZ, AF240FTZ, and AF400FTZ to be used off the camera, while maintaining the full electronic coupling to the camera.

Filters

Skylight, Cloudy, UV, Y2, O2, R2, and Circular Polarizing Filter are available.

AF400T Bracket for 67

Attaches AF400T flash unit to a 67 II camera via tripod socket on the base of camera.

Quick Shoe 645/67

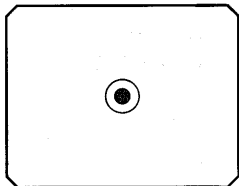
The camera can be attached or detached from the tripod in seconds.

Interchangeable focusing screen

Four types of focusing screens including the standard focusing screen are available. (Refer to the instruction sheets supplied with each screen for changing instructions.)

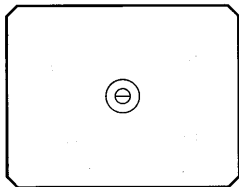
BA-61, BA-81 (Microprism with matte)

For general use, matte screen with microprism.



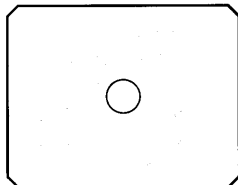
BB-61, BB-81 (Split Image with matte)

Matte screen with split image.



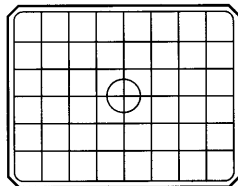
BE-60, BE-80 (Plain Matte)

The standard focusing screen for general photography.



BG-60, BG-80 (Section-Line with matte)

Designed to guide picture compositions.



BA-61, BB-61, BE-60, BG-60 can be used for any focal length of the lens. BA-81, BB-81, BE-80 and BG-80 are bright focusing screens designed for use with the telephoto lenses or the slower maximum aperture lenses. However, the exposure accuracy with these focusing screens may be deteriorated.

For more information, read the operating manual of 67II Interchangeable Focusing screens.

Notes on Accessories

- When using an ordinary polarizing filter; exposure accuracy can be adversely effected. The use a CIRCULAR POLARIZING FILTER is necessary for proper exposure.

Autobellows

The new autobellows 67 supplied with the extension tube (Outer bayonet No.1) can be used. The auto bellows without the extension tube (Outer bayonet No.1) cannot be attached to the 67 II camera if the AE Pentaprism 67 II is used. The extension tube (Outer bayonet No.1) and the scale are available as an optional accessory.

Rear Converter

When the Rear Converter is used with the focusing screen for telephoto lens (BA-81, BB-81, BE-80 or BG-80) installed, a slight amount of overexposure will occur.

Custom Functions

The Pentax 67II offers "Custom Functions" to modify the camera's operation to suit personal preferences. Modifications are made at a Pentax service center (at some charge). Please consult your local Pentax service center for details:

1/2 EV Shutter-speed settings

Shutter speeds can be divided into 1/2 EV steps.

Metering timer duration

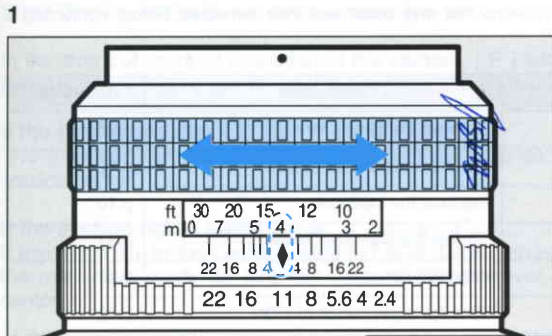
The 10-second metering timer can be changed to 5, 20 or 30 seconds. In memory lock mode, the timer is changed from initial 20 seconds to 10, 40, or 60 seconds.

F-number indication in viewfinder display

The selected aperture is displayed in the viewfinder instead of exposure frame number. This Custom Function is available only when a lens with automatic diaphragm control is mounted.

Installment of an additional strap lug

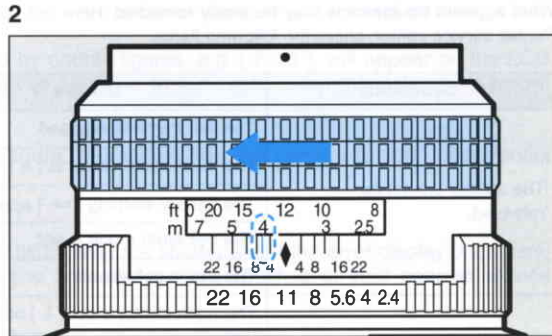
An additional strap lug is installed next to the grip for horizontal positioning of the camera.



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.

How to focus


1. Focus on a subject as usual.



2. Turn the focusing ring to the left by distance indicated on the infrared index.

- To set the proper exposure level for infrared pictures, refer to the instructions accompanying the film. The Aperture-Priority AE Mode does not give a correct exposure for infrared film. Use the Metered Manual Mode.

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 cannot be released.	The last frame is exposed.	Remove the film.	p.28
	The main switch is set to [L].	Set the main switch to ON.	p.12
	The battery warning [] appears.	Replace the batteries.	p.10
	The self-timer mode is set.	Cancel the self-timer mode.	p.41
	The film is not wound.	Wind the film.	p.37
Indicators do not appear on the LCD panel.	The main switch is the [L] position.	Turn the main switch to [ON].	p.12
	No batteries have been installed.	Install the batteries.	p.10
	The batteries are improperly installed	Install the batteries properly.	p.10
	The batteries are dead.	Replace the batteries.	p.10
Focus is not precise in the picture.	The pressure plate has not been set to the proper position.	Set the pressure plate according to the film type.	p.21
Film winding is very heavy.	The pressure plate has not been set to the proper position.	Set the pressure plate according to the film type.	p.21
The first frame (or the last frame) was cut off on the film.	The film start mark had not been properly set.	Set the film start mark to the proper position.	p.24

Error Display in the Event of Incorrect Operation

In the event of unusual operation of the camera, [E] followed by double figures, e.g. [E-13], will appear on the LCD panel to indicate an error. When this happens, the shutter cannot be released. In this event, follow the instructions below.

If the first figure after [E] is "1" or "3"

This indicates camera breakdown, irrespective of the second figure. You should take the camera to your local Pentax service center.

If the second figure after [E] is "1", "2" or "3"

If there is a film in the camera, wind to the end and remove the film. Press the shutter and if the error display disappears, the camera is ready for use. We recommend, however, that you have the camera checked at your nearest service center.

If [Perr] is displayed

Take the viewfinder out and put it back two or three times. If the error display disappears, the camera is ready for use.

In rare cases, the camera may not operate correctly due to static electricity. This can be remedied by taking the batteries out and putting them back in again.

SPECIFICATIONS

The bold letters indicate the specifications when an optional AE Pentaprism Finder 67 II is attached.

Type: ————— 6 x 7 format SLR camera

Format: ————— 55 x 70mm







Usable Film: ————— 120 roll film (10 exposures) with 120 film, 220 roll film (21 exposures) with 220 film



Exposure Modes: — **Aperture-Priority AE Mode, Metered Manual Mode**, Bulb Mode, Time Exposure Mode.

Shutter: ————— Electronically-controlled horizontal-run focal-plane shutter, Speed range: (1) **Auto 1/1000-30 sec. (stepless)**, (2) Manual 1/1000-4 sec., (3) Bulb, (4) X 1/30 of second. Shutter lock by turning the main switch L

Lens Mount: ————— Pentax 67 double bayonet mount system (inner bayonet and outer bayonet)

Viewfinder: ————— Interchangeable viewfinders (option), Focusing screen: Interchangeable screen with Natural-Bright-Matte focusing screen, Field of view: 90% vertical, Magnification: 0.75X (with 105mm lens at infinity), Diopter: -2.5 to +1.5 diopters

Viewfinder Indication: ————— **Shutter speed indication, Aperture indication, Flash status information [], Bar graph: Exposure compensation value indication, Over or Under exposure indication in Manual Exposure Mode, [] Exposure compensation indication, [] Memory lock indicator, Film counter indication, Multi(6)-segment Metering [], Center-weighted metering [], Spot metering []**

External LCD panel Indication: ————— [] Battery exhaustion warning, Film speed, ISO indication, Film counter, Film status information, [] Flash status information

Self-timer: ————— Electronically-controlled type with delay time of 12 sec. Start by depressing of shutter release button, Cancelable after operation

Mirror: ————— Instant-return mirror with lock-up device

Film Winding: ——— With rapid wind lever (7 pre advance angle and 190 advance angle)


Exposure Meter: ——— TTL multi (6)-segment wide-open metering, Metering range from EV2 to EV21 at ISO100 with 105mm f/2.4 lens, Center-weighted and Spot metering mode can be set

Exposure Compensation: ——— +/- 3EV in 0.3EV step increments (With an optional AE Pentaprism 67 II attached)

Multiple Exposure: ——— Via Multi-exposure lever

Exposure Memory Lock: ——— With the memory lock button depressed, the memory timer locks the exposure value for 20 seconds. The memory lock function remains while the shutter release button is depressed halfway down. (With an optional AE Pentaprism 67 II attached)

Flash sync: ——— Via 5P X -sync terminal for Pentax dedicated auto flashes, X-sync socket is provided for Pentax non-dedicated flashes, ISO range = 25 - 800

Power Source: ——— Two 3V lithium batteries (CR123A or the equivalent)
Battery Exhaustion Warning: Battery exhaustion symbol [] is lit (blinking when the shutter is locked; no indication in the viewfinder.)

Dimensions and Weight: ——— 185.5mm(W) x 108.5mm(H) x 92.0mm(D) (7.3"x4.3"x3.6") 1210g (42.7 oz) body only without batteries
185.4mm(W) x 151.0mm(H) x 106.0mm(D) (7.3"x5.9"x4.2") 1660g (58.6 oz) body with AE Pentaprism Finder 67 II attached without batteries

Supplied Accessories: ——— Body mount cap 67, Finder cap 67, LX sync terminal cap, 5P sync terminal cap, Strap D

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