OPERATING MANUAL

1

mP

EN

'NT

GNII PE

Download from Www.Somanuals.com. All Manuals Search And Download.

pt

TAX 645NII

VTAX

45NT

NIPEN

Welcome to the Fantastic World of Pentax Autofocus Multi-Mode Medium Format Photography

The Pentax 645_{NI} , our latest development in the area of the medium format SLR, promises a superior 6 x 4.5cm result with 120, 220, or 70mm film.

Made possible through our vast experience and technology accumulated over the years, the new autofocus multi-mode 645_{NI} assures pinsharp focus accuracy with AF Spot and AF Wide selection, and the 6-segment multi-pattern metering allows precise exposure control under widely varying conditions. Unsurpassed versatility is assured through the utilizing of a full range of exposure modes (Programmed AE, Aperture-Priority AE and Shutter-Priority AE, Metered Manual and TTL auto flash control), an exposure compensation control and auto-brack-eting mode and a new user-set Pentax Function to customize the 645_{NI} to meet the for user's shooting preferences. With a 645 A- or FA lens attached, the 645_{NI} imprints relevant information (frame number, shutter speed, aperture setting, exposure control and auto-bracketing mode.

The Pentax 645_{NI} is a professional camera possessing a number of highly sophisticated features: built-in automated film wind, an external LCD information panel and clearly visible LCD information in the viewfinder.

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.

TABLE OF CONTENTS

LCD panel indication	.3
Viewfinder indication	.3
Names of working parts4,	
Safe use of your camera	
Precautions for your camera	
Precautions for battery usage	

I. BASIC OPERATION (PREPARATION) ...10 - 28

Attaching the camera strap	11
Loading the batteries	12
Turning on the power	14
When the batteries are exhausted	15
Attaching the lens	16
Attaching/Detaching the film holder 645	
Depressing the shutter release button	
Film loading	20

Setting the film speed (ISO)	24
Unloading the film	
Unloading the film in mid-roll	
Installing the eyecup	
Adjusting the viewfinder diopter	
II. BASIC OPERATION (SHOOTING)29 -	37
Using the Programmed AE Mode	30
Using the Multi (6) - segment metering mode	31
Using the autofocus mode	32
Using the Single AF Mode	.33
Using the 3-point AF mode	34
Using the Single-Frame Drive Mode	34
Holding the camera	35
Taking a picture	

III. ADVANCED OPERATION	.38 - 83
Selecting a Drive Mode	
Consecutive - Frame Mode	38
Self-Timer Mode	39
Taking multi-exposure pictures	40
Selecting an Exposure Mode	42
Using the Programmed AE Mode	42
 Using the Aperture-Priority AE Mode 	44
Using the Shutter-Priority AE Mode	46
Using the Metered Manual Mode	48
Using the Bulb Exposure Mode	50
About Exposure Compensation	52
Using the Auto Bracketing Mode	53
Switching the Metering Mode	55
Center-weighted Metering Mode	
Spot Metering Mode	56
Using the AE Lock	57
Setting the focus mode in the Continuous	
position.	58

Using the Spot AF Mode	59
Focus Lock Function	
Manual focusing	61
Imprinting the exposure data on the negative .	64
Using a Pentax Dedicated External Flash	68
Daylight-sync shooting	72
Slow-speed-sync shooting	73
Using the preview lever	74
Mirror lock-up	75
Pentax Function	76
Accessories (Optional)	83
Interchangeable focusing screens	84

IV. OTHERS	86 - 92
Troubleshooting	86
Specifications	
Warranty policy	

LCD PANEL INDICATION

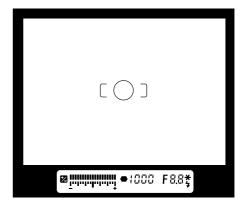


- 88 : Frame Counter (p.22)
- 8888 : Film Speed Information (p.24)
- **ISO** : Film Status Information (p.24)
- Battery Exhaustion Warning (p.15)
- Imprinting Exposure Data Information (p.64)

LCD (Liquid-Crystal Display)

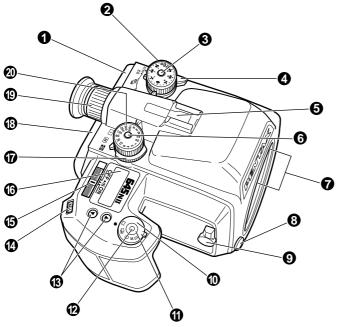
When the LCD is exposed to high temperatures over approximately 60°C it may blacken, but when the temperature normalizes, it should return to normal.

VIEWFINDER INDICATION



- []: 3-point AF Frame (p.34)
 - : Spot Metering / Focusing Area (p.56, 59)
- 1000 : Shutter Speed (p.42, 45, 47, 49)
- F8.8 : Aperture Value (p.42, 45, 47, 49)
 - : Flash Status Information (p.68)
 - : In-Focus Indicator (p.36)
- Exposure Compensation (p.52)
- : Bar Graph (p.49, 52)
- ★ : AE lock (p.57)

NAMES OF WORKING PARTS



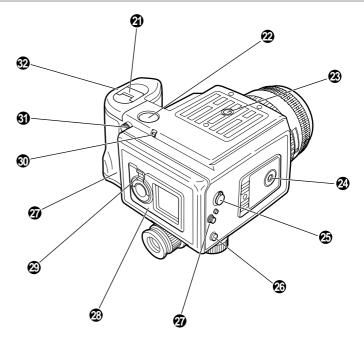
- AF mode selector (p.33, 58)
- 2 Exposure compensation dial (p.52)
- S Exposure compensation dial release button (p.52)
- Auto bracketing selector (p.53)

Hotshoe (p.68)

- 6 Shutter speed dial release button
- Lens information contacts
- 8 Lens unlock button (p.16)
- 9 Preview lever (p.74)
- Drive mode selector (p.34, 38, 39)
- Shutter release button (p.20)
- Release socket (p.51)
- B Up / down buttons
- AE lock button (p.57)
- Main Switch (p.14)
- LCD panel (p.3)
- Metering mode selector (p.31, 55, 56)
- (D) AF frame selector (p.34, 59)
- Diopter adjustment ring (p.28)
- Shutter speed dial

NAMES OF WORKING PARTS

- Battery holder release knob
- External power supply socket (p.13)
- Tripod socket (p.35)
- Vertical tripod socket (p.35)
- Multi-exposure switch (p.40)
- X-sync socket
- Strap lug (p.11)
- Film holder (p.18)
- Film holder release knob (p.18)
- Mid-roll wind-up button (p.26)
- G Electronic cable release socket (p.51)
- Battery holder (p.12)



FOR SAFE USE OF YOUR CAMERA

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

▲ 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.

6

- 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. Also, do not dispose of the battery in fire, as it may explode.
- Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not 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 ice crystals may cause damage. In such a case, put the camera into a case or plastic bag so that any changes in temperature difference is minimized. Do not remove it from the bag until temperature has stabilized.

• Regular size color prints may cut off what appears on the extreme edges of the film frame. Compose your picture with a margin of safety at the edges.

Precautions for storage

- Avoid leaving the camera for 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.

- 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.

PRECAUTIONS FOR BATTERY USAGE

9

- Use six 1.5V AA size alkaline. or 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, type or an old battery with a new one. As this may cause explosion or overheating.

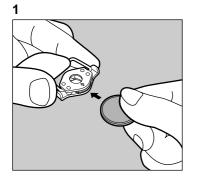
Icon indicators used in this manual

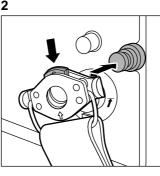
Operation direction	ŧ
Attention	\bigcirc
Lamp blinking	柒

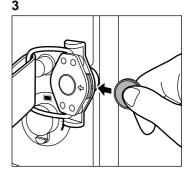
I. BASIC OPERATION (PREPARATION)

ATTACHING THE CAMERA STRAP

11

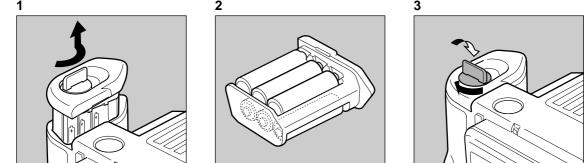






- 1. Using a coin or similar object slide the clasp in the direction of the arrow.
- 2. Put the clasp onto the strap lug of the camera with the arrow indication facing out, and slide the lock plate back to the original position.
- 3. To remove the strap, repeat step 1.
- Adjust the length of the strap with the buckle.
- After fitting the strap and adjusting the length, pull the strap hard to confirm that the strap has securely attached to the camera.
- There is a pocket on the strap so you can store a small accessory.

LOADING THE BATTERIES



- 1. To remove the battery holder, lift the battery holder release knob and turn it in the direction of the arrow.
- 2. Load six 1.5V AA-size batteries in the battery holder in accordance with the diagram located in the battery holder.
- 3. To secure the battery holder, turn the battery holder release knob in the direction of the arrow.

12

13

- This camera requires battery power for operation. Always use six 1.5V AA size batteries.
- The ISO film speed and number of exposed frames are unchanged if the batteries are replaced.
- Keep spare batteries on hand when shooting out doors or while traveling.
- Use of the optional Remote Battery Pack 645 and Power Cord 645 is recommended when the camera is to be under the extremely low temperatures.
- Replace all the batteries at the same time. Do not mix battery brands, types or old batteries with new.
- Remove batteries when not using the camera for long periods of time as the batteries may leak after time.

Battery Life

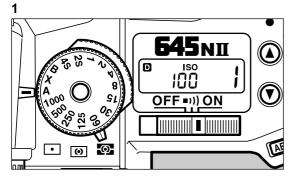
[20°C/68°F]

	Alkaline Battery	Lithium Battery
120 film holder:	about 130 rolls	about 320 rolls
220 film holder:	about 100 rolls	about 250 rolls
Bulb exposure time	about 8 hours	about 12 hours

Battery Life [-10°C/14°F]

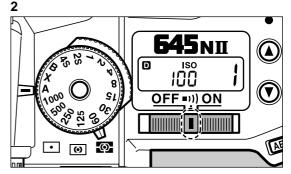
	Alkaline Battery	Lithium Battery
120 film holder:	about 7 rolls	about 120 rolls
220 film holder:	about 5 rolls	about 90 rolls
Bulb exposure time	about 6 hours	about 10 hours

- 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.



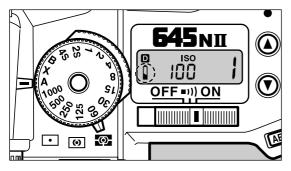
1. Set the main switch to [ON]

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



- 2. With the main switch set to [=))], an audible PCV signal is heard for one of the following conditions.
- When the subject comes into focus.
- When the film is left only one frame.
- With the mirror lock-up function set.

14



* Low Battery Warning

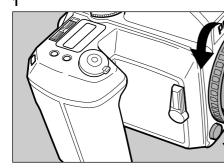
When the batteries are nearly exhausted, the battery symbol [$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$] appears on the LCD panel as a warning. Replace the batteries as soon as possible. See page 12 for replacing the batteries.

• 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. **BASIC OPERATION (PREPARATION)**

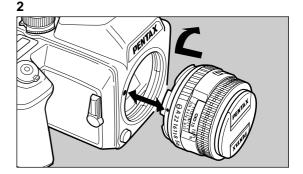
ATTACHING THE LENS

BASIC OPERATION (PREPARATION)

16

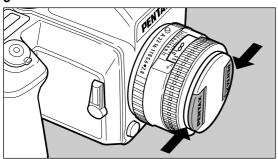


1. Remove the body mount cap while depressing the lens unlock button.



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.

BASIC OPERATION (PREPARATION)



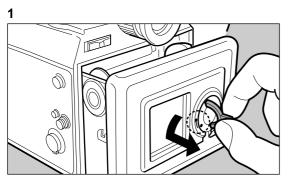
- 3. To remove the front lens cap, squeeze the tabs on both sides in the direction of the arrow.
- With a non-autofocus lens attached, all available functions in this camera operate except autofocus operation.
- · We assume no responsibility nor liability for damages resulting from the use of lenses made by other manufacturers.
- The camera body and lens mount incorporate lens information contacts and an AF coupler. Dirt, dust, or corrosion may cause damage to the electrical system. Clean the contacts with a soft, dry cloth. Download from Www.Somanuals.com. All Manuals Search And Download.

* How to remove To remove the lens, turn it to the left while depressing the lens unlock button.

 To protect the contacts and AF coupler of the lens against damage after removal, be sure to set the lens down with the mount side facing upward.

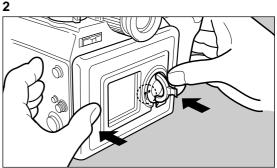
13 ATTACHING/DETACHING FILM HOLDER 645





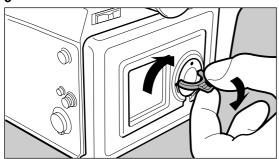
Detaching

1. Raise the film holder knob and turn until the red dot markings align and a click is heard. Continue to turn the film holder knob to the end of the red line; the locking mechanism will release and the film holder is now detached from the camera body.



Attaching

2. Align the red dots on the film holder knob and film holder, then insert the film holder into the camera chamber. Depress both sides of the film holder until you hear a click. 3



3. Turn the film holder knob 90° to the right. After attaching the film holder to the camera, fold the film holder knob into its original position.

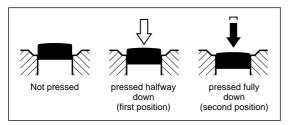
- When inserting the film holder into the camera body, be sure that the film holder is inserted the right way up in order to avoid any serious damage.
- The same precaution is required when attaching the 220 film holder.

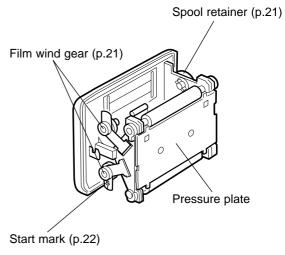
LOADING FILM

PRESSING THE SHUTTER RELEASE BUTTON

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

- Before loading a roll of film, slowly press the shutter release button to learn where the first position is.
- The LCD indication stays on for about 10 seconds after the button is released from the halfway position.
- The LCD indication timer duration can be changed from the initial 10 seconds to 20 or 30 seconds with Pentax Function No.2. See page 78.

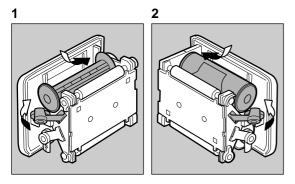




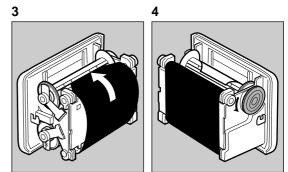
After loading the film, be sure to set the proper film speed. See page 24 for setting the film speed.

Download from Www.Somanuals.com. All Manuals Search And Download.

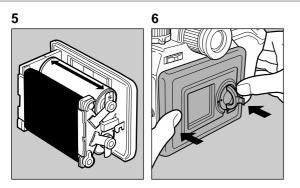
20



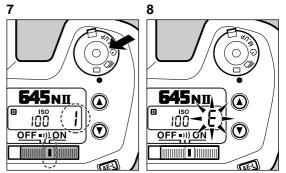
- 1. Install the emptied spool to the spool retainer as illustrated.
- 2. Tear off the tape and install the spool to the film holder so that the black inner side of the leading must face outwards.



- 3. Draw the leader from the film roll, and insert the leader paper tip into the take-up spool's slit.
- 4. Slowly rotate the film winding gear in the direction of the arrow while lightly holding the leader paper.



- 5. Wind the leader paper to the take-up spool until arrow marking on the leader paper aligns with the holder's start mark S and the red line.
- 6. Attach the film holder into the camera body.



- 7. Set the main switch to [ON]. Release the shutter. The film automatically advances to the first frame. [;] is displayed on the LCD panel.
- 8. If the [[] appears, indicating that the film is not properly loaded. Detach the film holder from the camera and load the film once again.

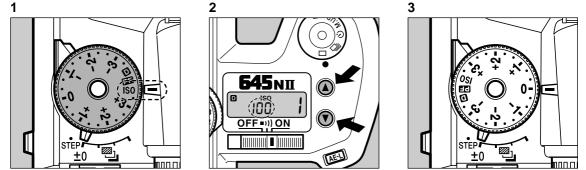
- Always load or unload a film in the shade or by using your body to shade the film holder.
- We suggest that you first operate the camera without film to become familiar with its operations.
- The film counter indication advances one each time the shutter is released.
- With a 220 film loaded, the dot marks appear before the arrow marking. If the dot marks align with the start mark on the film holder, the first 3 frames will not be exposed.
- The film counter indication can be set either advance with each frame or count down each frame with Pentax Function No.7.

- If the leader paper is wound far beyond the start mark S or the red line, you may lose the last frame(s) on the roll.
- The film holder cannot be changed or removed when the film is in mid-roll.
- 15 pictures are taken with the 120 roll film and 32 pictures are taken with the 220 roll film. The number of taken pictures can be changed with a Pentax function No.9.
- With the main switch set [=>))], the PCV signal beeps for two second when the film is left only one frame for film depleting warning.

SETTING THE FILM SPEED (ISO)



24

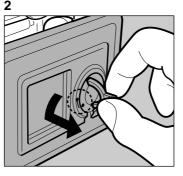


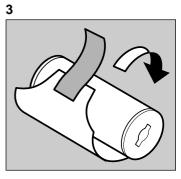
- 1. Set the exposure compensation dial to the ISO position.
- Turn the exposure compensation dial while holding down the exposure compensation dial release button.
- The shutter cannot be released with the exposure compensation dial set at [ISO].
- Press the up/down button. To set the ISO for to a higher film speed, press the [▲] button repeatedly until the desired ISO appears on the LCD panel. To change ISO for a lower film speed, press the [▼] button repeatedly until the desired film speed appears on the LCD panel.

- 3. After the desired film speed is set, turn the exposure compensation dial to the [0] position.
- The film speed setting range is ISO 6 to 6400 in 1/3 EV step increments.
- 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 film holder to remind you of the film type/speed that you are using.
- [ISO] and film speed are always displayed on the LCD panel with the main switch set to the ON position.

UNLOADING FILM



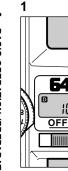


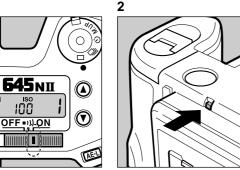


- 1. After the last frame of the roll is exposed, the camera will automatically wind the film and stops winding as soon as the back of the leader paper is wound to the take-up spool. $[E_{nd}]$ on the LCD panel is displayed.
- 2. Detach the film holder from the camera.
- 3. While firmly holding the wound film roll, affix the paper seal securely on the back of the paper leader to prevent from accidental unwinding of the exposed roll.

- Remove the film in the shade or by using your body to shade the camera.
- The number of exposed frames on the LCD panel disappears from the LCD panel.

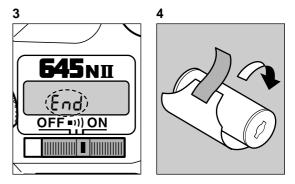
26 UNLOADING THE FILM IN MID-ROLL



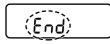


If you wish to remove the film before exposing all the frames, use this function.

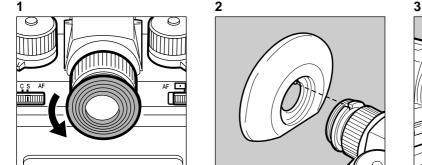
- 1. Set the main switch to [ON].
- 2. Press the mid-roll wind-up button fully with a fine-pointed object. The film will wind completely.
- 3. Before detaching the film holder, check that $[{E_{nd}}]$ is displayed on the LCD panel.

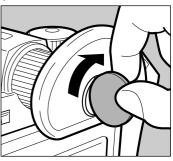


- 4. While firmly holding the wound film roll, affix the paper seal securely on the back of the paper leader to prevent from accidental unwinding of the exposed roll.
- The number of exposed frames on the LCD panel disappears from the LCD panel.
- When removing the film from the camera, protect it from exposure to direct sun light.



INSTALLING THE EYECUP





Two types of eyecups, a standard and a larger are provided as accessories; they may be utilized according to a given situation. The larger is constructed of rubber and designed to fit close to the face for easy shooting.

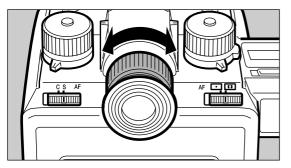
To install

- 1. The standard eyecup may be easily removed from the viewfinder by rotating the cup to the left.
- 2. To install the larger eyecup: match the eyecup pin with fitting eyepiece hole.
- 3. Turn the fixing screw by turning to the right with a coin or similar object. Download from Www.Somanuals.com. All Manuals Search And Download.

- When using accessories such as the Refconverter 645, remove the eyecup first.
- When turning the fixing screw with a coin, a large diameter coin is recommended to use. A small diameter coin touches the glass part of the eyepiece and causes scratching the eyepiece glass.

27

28) ADJUSTING THE VIEWFINDER DIOPTER



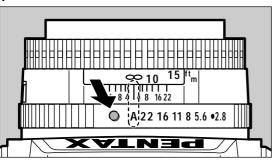
Aim the camera at a bright subject. While looking through the viewfinder, turn the diopter adjustment ring to the left or right until the autofocus frame [[]] appears in the sharpest focus.

• The diopter adjustment range is +1.0D to -3.5m⁻¹ (per meter).

II. BASIC OPERATION (SHOOTING)

USING THE PROGRAMMED AE MODE

1

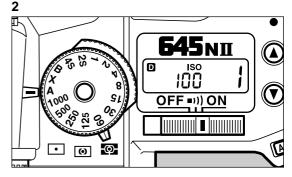


Purpose

For easy picture taking, use this mode. In the Programmed AE mode, the camera automatically selects the best combination of aperture and shutter speed setting allowing you to take pictures by simply pressing the shutter release button.

To set

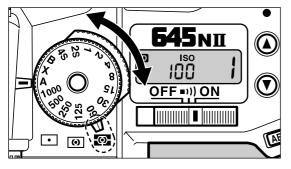
- 1. Turn the lens aperture ring to the [A] position as shown in the illustration.
- To move the lens aperture ring to the [A] position, turn the aperture ring while holding down the aperture-A lock button on the lens. The lens aperture ring can be released from the [A] position in the same manner.



- 2. Turn the shutter speed dial to [A] while holding down the shutter speed dial release button. The shutter speed dial can be released from [A] in the same manner.
- You can shift the program line of Programmed AE Mode with Pentax Function No.6. See page 79 for more details.
- See page 44, 46, 48, and 50 for other available exposure modes.

BASIC OPERATION (SHOOTING)

USING THE MULTI(6)-SEGMENT METERING MODE



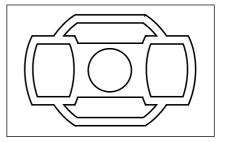
In the multi(6)-segment metering mode, the metering system automatically measures light in six different zones, enabling proper exposure value in a wide variety of normal and adverse lighting conditions.

Set the metering mode switch to [💽].

- The center-weighted metering mode and spot metering mode are also available in this camera. See page 55 and 56 for more details.
- When the Adapter 645 for 67 lens or Helicoid Extension Tube 645 attached, the center-weighted metering mode is automatically set even if you select the multi-segment metering mode. The

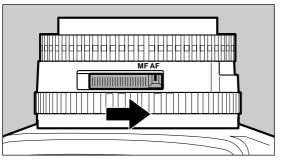
MULTI(6)-SEGMENT METERING

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 underexposed 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.



multi-segment mode Dawmond for wst www.Somanuals.com. All Manuals Search And Download.

USING AUTOFOCUS MODE

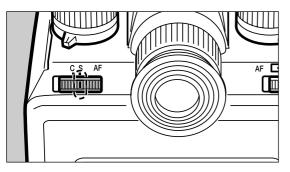


With the Pentax 645 FA lens attached, the lens automatically focuses when you press the shutter release button halfway down.

Set the lens in the autofocus mode.

- Switching between the autofous mode and manual focus mode depends on the lens you use. For more details, read the operating manual of the lens.
- The camera does not provide the switch for switching between the autofous mode and manual mode.

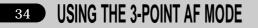
USING THE SINGLE AF MODE



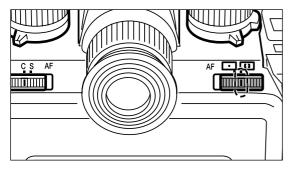
When you depress the shutter button, the lens automatically focuses. As soon as the subject is in focus, the shutter is released. For normal use, select this position. The shutter cannot be released if the subject is out of focus.

Set the AF mode selector to [S].

• Continuous AF Mode is also available in this camera. See page 58.

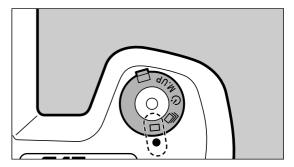


USING THE SINGLE-FRAME DRIVE MODE



In the 3-point autofocus system, the subject will be focused properly even if the main subject is slightly off-center of the AF frame.

Set the AF mode selector to [$\begin{bmatrix} \\ \end{bmatrix}$].



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

Set the drive mode dial to [\square].

HOLDING THE CAMERA

Camera held horizontally



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

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

Camera held vertically



- To reduce camera shake, support your body or the camera on a solid object a table, tree, or a wall for instance.
- 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.
- This camera has provided two tripod sockets for vertical and horizontal format positions.
- When the tripod is used, use of an optional Cable SW CS-105/CS-130 or Cable Release is also recommend-

TAKING A PICTURE

1 2 • ;25 F ; ;

Set the lent to the autofocus position.

- 1. Focus on the subject with the 3-point AF frame [[]]. When the shutter release button is pressed halfway down, the lens automatically focuses.
- 2. When the subject is in focus, the focus indicator [●] lights up.
- 3. To release the shutter, gently press the shutter release button fully.

- When the shutter release button is pressed halfway down, the shutter speed and aperture setting are displayed in the viewfinder.
- Select the Spot AF Mode to critically focus on a specific spot of the subject. See details on page 59.
- When the subject is in focus, the audible PCV signal can be emitted. See details on page 14.
- During autofocus operation, the focusing ring should not be obstructed with your fingers, hands, or any other object.

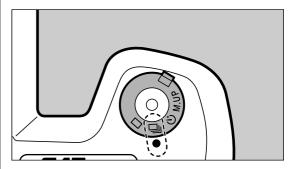
The focus indicator [\bigcirc] blinks when the camera is not able to obtain proper focus for one of the following reasons.

- 1. The subject is too close. Adjust the camerato-subject distance.
- 2. The subject is difficult to autofocus. See "HARD-TO-AUTOFOCUS" on page 63.

36

- The shutter cannot be released if the subject is out of focus.
- The film counter indication advances each time the shutter is released.
- Depress the shutter release button halfway down. While [○] is on, the camera-to-subject distance is fixed (focus lock). To refocus on another subject, lift your finger off the shutter release button.
- If the drive mode switch is set to the Consecutive-Frame Mode with the Single AF Mode set, the camera focuses only the first picture. From the second picture, the pictures are taken consecutively with the focus locked at the first picture.

SELECTING A DRIVE MODE



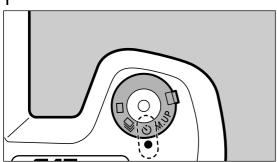
Consecutive-Frame Mode

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

Set the drive mode selector to [\Box].

 If the AF mode selector is set to [S], the camera focuses only the first picture. From the second picture, the pictures are taken consecutively with the focus locked at the first picture.

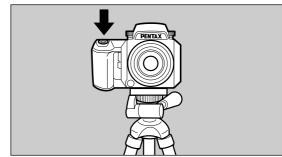
III. ADVANCED OPERATIONS



Self-Timer Mode

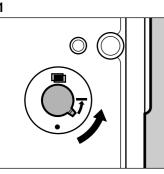
The self-timer mode delays the shutter release, and is useful for taking group shots that include the photographer. The shutter will be released about 12 seconds after the shutter release is pressed.

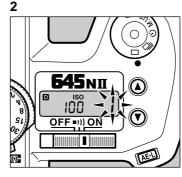
- 1. Set the drive mode selector to [\circlearrowright].
- 2. Focus on the subject first using the autofocus frame and by pressing the shutter release button halfway down. Then press the shutter release button fully.

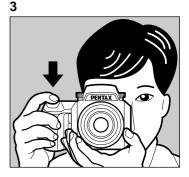


- The shutter will be released about 12 seconds later.
- When the self-timer is in operation, the audible PCV signal is heard and the rate increases for the last two seconds.
- To cancel the self-timer operation after it has been activated, move the drive mode selector to a position other than [3] or set the main switch to the OFF position.
- The self-timer delay time can be set to 12 sec. or 2 sec. (with mirror lock-up) with Pentax Function No. F4.

MULTIPLE EXPOSURE MODE





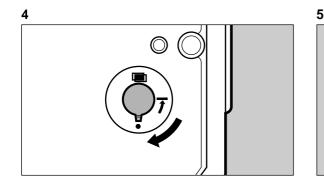


Procedure

- 1. Turn the multi-exposure switch in the direction of the arrow until it locks.
- 2. The frame counter on the LCD panel blinks.
- 3. Press the shutter release button to shoot an initial exposure. The film will not advance.

Download from Www.Somanuals.com. All Manuals Search And Download.

40



4. Return the multi-exposure switch to the original position to cancel the multi-exposure mode.

Notes:

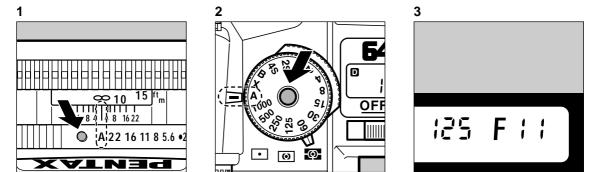
• To exposure the third shot, leave the multi-exposure switch in the lock position in step 3 to shoot the second shot. Then return the multi-exposure switch to the original position. The film does not advance at on this stage. Depress the shutter release button to shoot the third shot. The film will advance and the single-frame shooting will be restored.

5. Recompose the frame, and depress the shutter release button to shoot the second shot.

PENTAX

- When using the Multi-Exposure Mode, you usually get the best result using a flash to illuminate the main subject against a dimly-lit background.
- To cancel the Multi-Exposure Mode, turn the multiexposure switch to the original position.
- With the data exposure imprinting set, the data of the last frame is imprinted.

SELECTING AN EXPOSURE MODE



Using the Programmed AE Mode

Purpose

42

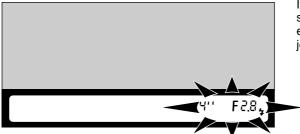
The camera automatically selects the optimum combination of shutter speed and aperture setting, making it easy to take a good photograph by just depressing the shutter release button.

To set 1. Set the lens aperture ring to [A].

• Turn the lens aperture ring while holding down the aperture-A lock button.

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.
- When the shutter release button is depressed halfway, the shutter speed and aperture setting will be displayed in the viewfinder.
- You can shift the program line of Programmed AE Mode with Pentax Function No. 4. See page 79 for more details.

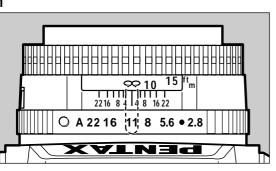


* Exposure Warning

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

Download from Www.Somanuals.com. All Manuals Search And Download.

ADVANCED OPERATIONS



Using the Aperture-Priority AE Mode

Purpose

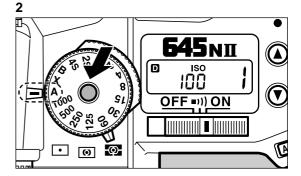
ADVANCED OPERATIONS

When the desired aperture is selected, an appropriate shutter speed is automatically set by the camera for a proper exposure. This mode is ideal for shooting landscapes with increased depth of field, or a portrait against a blurred background.

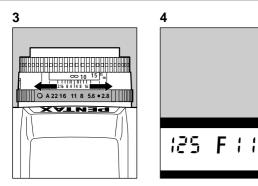
To set

- 1. Set the lens aperture ring to the desired f-stop other than [A].
- Turn the lens aperture ring while holding down the aperture-A lock button.
 Download from Www.Somanuals.com. All Manuals Search And Download.

2. Set the shutter speed dial to [A].
The shutter speed dial can be released from [A] to another position while holding down the shutter speed dial lock button.



ADVANCED OPERATIONS



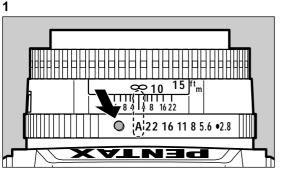
- 3. Set the desired f-stop.
- 4. The f-stop that you have selected and appropriate aperture indication determined by the camera can be seen in the viewfinder when the shutter release button is depressed halfway.
- The approximate aperture indication appears in the viewfinder. It may not the same indication as you select the lens aperture ring especially when the A645 150mm f/3.5 or A 645 45-85mm Zoom f/4.5 is attached.

* Exposure Warning

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

Download from Www.Somanuals.com. All Manuals Search And Download.

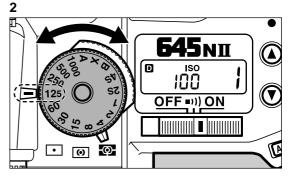
*



Using the Shutter-Priority AE Mode

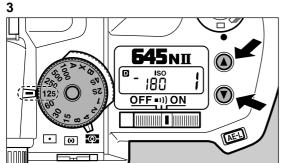
Purpose

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



To set 1. Set the lens aperture ring to [A].

- 2. Set the shutter speed dial to a shutter speed other than [A].
- 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.
- 3. Set the shutter speed dial to the desired shutter speed.



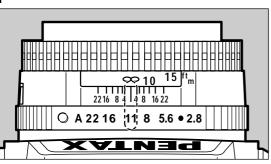
- 4. The shutter speed dial between 1/1000 to 4S can be set to 1/2 step by pressing the up/down button. The set shutter speed will be displayed on the LCD panel and in the viewfinder.
- If the shutter speed does not change to 1/2 step, confirm Pentax Function No. 1
- When the shutter release button is depressed halfway down, the shutter speed and the aperture value will be displayed in the viewfinder.
- In flash photography, when you use the flash sync shutter speed of 1/60 second or a non-dedicated external flash unit, set the shutter speed dial to the



* Exposure Warning

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

[X] (1/60 of second) position www.Somanuals.com. All Manuals Search And Download.



Using the Metered Manual Mode

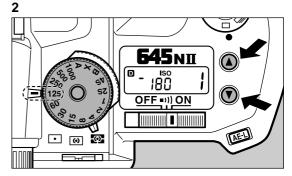
Purpose

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 overexposured photographs.

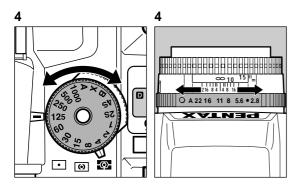
To set

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

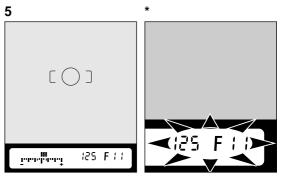
Turn the lens aperture ring while holding down the aperture-A lock button.
 Download from Www.Somanuals.com.



- 2. Set the shutter speed dial to the desired shutter speed.
- 3. The shutter speed dial between 1/1000 to 4S can be set to 1/2 step by pressing the up/down button. The set shutter speed will be displayed on the LCD panel and in the viewfinder.
- If the shutter speed does not change to 1/2 step, confirm Pentax Function No. 1
- 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.
- When the 645 LS (with leaf shutter)75mm is



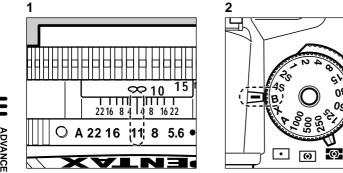
- Turn either the shutter dial or lens aperture ring until a single bar is displayed in the center of the bar graph.
- 5. When the shutter release button is depressed halfway, the shutter speed, approximate aperture and bar graph will be displayed in the viewfinder.
- When the bars are displayed to the [+] side on the bar graph, it indicates overexposure and when the bars are displayed to the [-] side, it indicates underexposure.
- Moving one bar on the bar graph indicates 1/3 step (0.3EV). However, when under or over exposure is set beyond + 3 or - 3 steps (3EV), [+] or [-] indicator will blink.

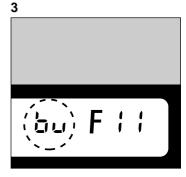


 In flash photography, when you use the flash sync shutter speed of 1/60 second or a non-dedicated external flash unit, set the shutter dial to the [X] (1/60 of second) position.

* 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; when it is too dark, choose a larger aperture. When the shutter speed indication stops blinking, you can take a picture. If both shutter and aperture blink, It means that the exposure is out of metering range, unable to obtain a correct exposure even if the aperture is adjusted. Select a darker subject or use a flash if it is too dark.





Using the Bulb Exposure Mode

Purpose

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

How to

- 1. Set the lens aperture ring to the desired f-stop other than [A] while holding down the aperture-A lock button.
- Do not set the lens aperture ring to [A]. If doing so, the aperture will always closed to the maximum position. Download from Www.Somanuals.com

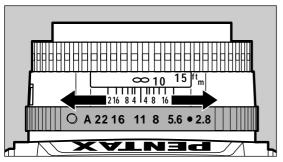
2. Set the shutter speed dial to [B].

D

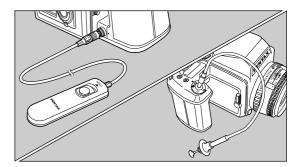
0

- 3. An appropriate aperture will be displayed in the viewfinder when the shutter release button is depressed halfway.
- Set the shutter speed dial to the [B] position. Turn the shutter speed dial while holding down the shutter speed dial lock button.
- The approximate aperture indication appears in the viewfinder. It may not the same indication as you select the lens aperture ring especially when the A645 150mm f/3.5 or A 645 45-85mm Zoom f/4.5 is attached.

4



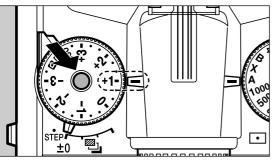
4. Adjust the desired aperture by lens aperture ring.



- When using this mode, use a steady tripod to prevent camera shake and attach the optional "Cable Switch CS-105, CS-130" or Release Timer Switch TS-110 after removing the Release Socket Cap.
- Up to approx. 8 hours of time exposure are possible with new alkaline batteries at room temperatures.

52 ABOUT EXPOSURE COMPENSATION

1



Purpose

The 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 [2] appear in the wire wire wire www.Somanuals.com. All Manuals Search And Download.



- Exposure compensation does not work in the Bulb Exposure Mode.
- The exposure compensation range is -3EV to +3EV in 0.3EV step.
- The exposure compensation step can be selected from initial 0.3EV step to 0.5EV step with the Pentax Function No.5. See page 79 for more details
- When the 0.5EV step is selected, two bars above the bar graph indicate a 0.5EV step.
- When exposure compensation is used in the Metered Manual Mode, the bar above the bar graph indicates under or overexposure, it is not indicating the exposure compensation value. [2] is displayed.

AUTO BRACKETING EXPOSURE MODE **63**

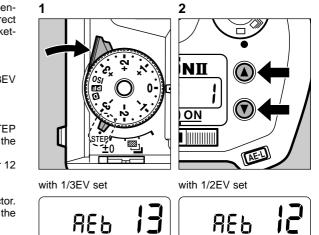
When you take a picture that requires exposure compensation and it may be difficult to determine the correct exposure, use this mode to make three different bracketed exposures with different exposure levels.

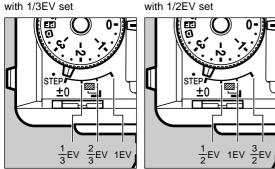
Selection of auto bracketing amount.

The auto bracketing amount can be selected either 1/3EV step or 1/2EV step.

To set

- While holding the auto bracketing selector at the STEP position, depress the up/down button to select the desired auto bracketing amount.
- The bracketing amount can be set 13 (1/3EV step) or 12 (1/2EV step).
- 2. Release the finger from the auto bracketing selector. The selector returns to the \pm 0 position to complete the set-bracketing amount.





- 1. Set the auto bracketing selector to the desired exposure compensation value.
- 2. Press the shutter release button fully. Three pictures are taken consecutively according to the auto-bracketing switch you have set.
- Three pictures are taken consecutively as follows.

First picture: Correct exposure Second picture: Underexposure Third picture: Overexposure

• The sequence of the auto bracketing exposures can be changed with Pentax Function No. 3.

- The camera automatically measures the exposure for each shot.
- The focus is locked at the first picture and remains locked until all pictures are taken.
- If you let go of the shutter release button during auto bracketing, the auto bracketing will remain effective until the viewfinder indication goes off. After that, auto bracketing exposure for the first bracketed frame will take effect.

Auto Bracketing Exposure Mode combined with the Exposure Compensation function.

You can combine the auto bracketing exposure mode with exposure compensation function.

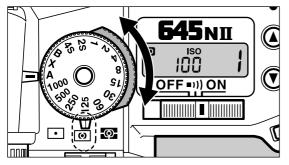
The auto bracketing will take effect to the set-exposure compensation amount.

Auto Bracketing Exposure Mode combined with the Metered Manual Mode.

You can combine the auto bracketing exposure mode with the metered manual mode (except X sync speed).

The auto bracketing will take effect only to the set-shutter speed. The bar graph of the metered manual mode is only displayed in the viewfinder. The bar graph of the exposure compensation value is not displayed.

SWITCHING THE METERING MODE



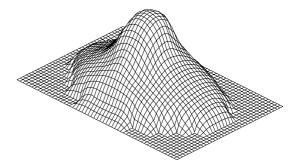
The Spot metering or center weighted metering mode can also be selected in this camera. Select the desired metering mode with the metering mode selector.

Using the Center-Weighted Metering Mode

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

To use

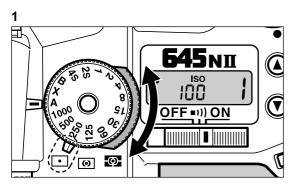
Set the metering mode selector to the [[] position.



- 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.
- In this metering mode, the camera does not automatically compensate the exposure in backlit or spotlit situations like the Multi (6) - Segment Metering Mode. Creative exposure control is decided by the user.

Download from Www.Somanuals.com. All Manuals Search And Download.

55

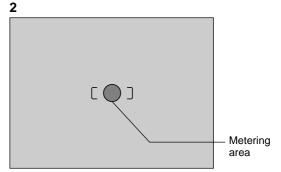


Using the Spot Metering Mode

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

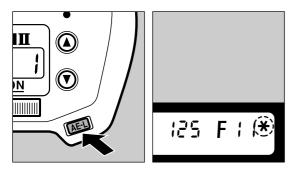
To set

1. Set the metering mode selector to [.].



- 2. Measure the small area of the viewfinder as illustrated.
- If the brightness range between area in the photograph is too great, the exposure should be determined in consideration of the overall brightness. Otherwise, the picture will come out improperly exposed.

USING AE LOCK



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

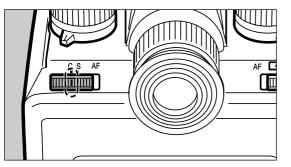
Position the area to be measured in the spot metering area and press the AE lock button. The exposure level is memorized and [*] is displayed in the viewfinder.

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

How to cancel

To cancel the AE lock function, press the AE lock button again.

58 SETTING THE FOCUS MODE SWITCH TO THE CONTINUOUS POSITION



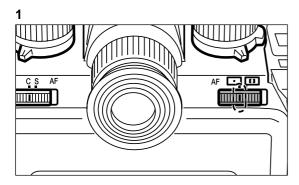
If the shutter release button is held at the halfway position, the lens focuses continuously to follow the subject. The shutter can be released even if the subject is out of focus.

Set the focus mode switch to [C].

Predictive Autofocus Mode

When the camera senses subject movement during the autofocus operation, the camera will automatically switch the focus mode to the predictive autofocus mode to measure the speed of a moving subject, and predict where it will be at the moment of shutter release to maintain sharp focus on the subject. If the subject is moving too fast, the shutter may not be released.

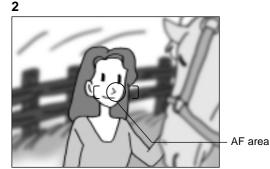
USING THE SPOT AF MODE



Select the Spot AF Mode to critically focus on a specific spot of the subject which is in the spot AF autofocus frame.

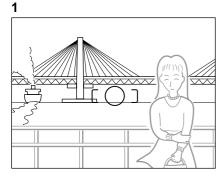
How to focus

1. Set the AF frame selector to [•].

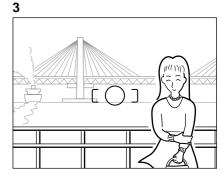


- 2. Focus on the main subject with the Sopt AF frame.
- When the main subject is off the Spot AF frame, use the focus-lock technique. See page 60.

FOCUS LOCK FUNCTION







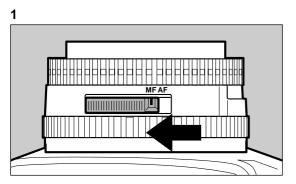
In the Spot Metering Mode, the camera focuses with the spot metering / focusing area of the viewfinder. If you shoot without positioning the spot metering / focusing area on the main subject, the main subject will not be focused properly.

Set the AF frame selector to [•].

- 1. When the composition does not allow the autofocus frame to be placed over the most important subject, the camera will focus on the background as shown in the illustration.
- The focus lock can be used in the 3-point AF Mode and Spot AF Mode.
- The focus lock does not operate when the AF mode ter release button.
 selector is at [C]. Download from Www.Somanuals.com. All Manuals Search And Download.

- 2. To prevent this, focus on the main subject with the spot metering / focusing area. Depress and hold the shutter release button halfway down. The in-focus indicator remains on, indicating that the focus is temporarily locked.
- 3. While holding the shutter release button halfway down, re-aim the camera or recompose the picture, then depress the shutter release button fully to release the shutter.
- Lifting your finger off the shutter release button clears the in-focus indicator [] in the viewfinder and cancels the focus lock function.
- To refocus on another subject, lift your finger off the shutter release button.

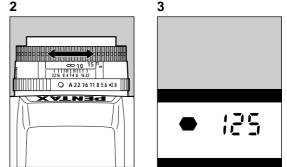
MANUAL FOCUSING



Using the in - focus indicator

How to focus

- 1. Set the lens in the manual focus mode.
- Switching between the autofocus and manual focus modes depends on the lens you use. For more details, read the operating manual of the lens.



- 2. While looking through the viewfinder, turn the focusing ring to the right or left while holding the shutter release button halfway down.
- 3. When the subject comes into focus, the infocus indicator [○] lights up in the viewfinder. Press the shutter release button fully to take the photograph.

- The camera is not equipped with the focus mode selector.
- When the subject comes into focus, the focus indicator [] lights up in the viewfinder. An audible PCV signal can be heard if the main switch is set to the [-1)] position.

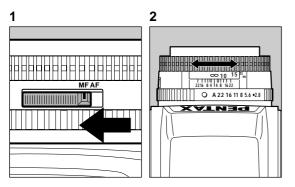
When the autofocus mode or the in-focus indicator is unsuited for focusing

When the autofocus function or the viewfinder's infocus indicator [\bigcirc] cannot be used when the subject on the AF frame is difficult to autofocus. Focus the subject in the manual focus mode with the aid of the matte field in the viewfinder as you would with a non-AF SLR camera.

Notes on Accessories

The following conditions do not allow autofocusing or manual focusing with the in-focus indicator in the viewfinder. Use the manual focus mode to focus on the subject with the aid of the matte field surrounding the autofocus frame. See page 58 for manual focusing.

- a) When using special effect filters or "Magic Image Attachment".
- b) When using Extension Tubes or an Auto Bellows for close-up photography.



How to focus on the subject with the aid of the matte field

- 1. Set the lens in the manual focus position.
- 2. While looking through the viewfinder, turn the focusing ring to the right or left until the image in the viewfinder is clearest.

HARD-TO-AUTOFOCUS SUBJECTS

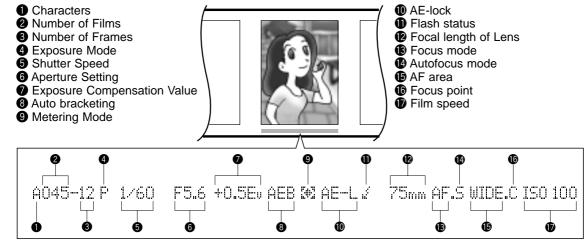
The autofocus system is highly precise, but not perfect. Depending on the brightness, contrast, shape, and size of your subject, the autofocus system may not operate. In such a case, use the focus-lock technique (see page 60.) on another subject that is the same distance away, or set the lens to use the manual focus mode to focus the lens on the subject with the aid of the matte field in the viewfinder.

Subjects which may fool the autofocus system include:

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

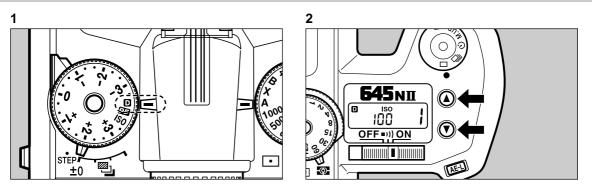
64 IMPRINTING THE EXPOSURE DATA ON THE NEGATIVE

If a 645 A- or FA lens (autofocus lens) is attached, the camera imprints the following exposure data directly on the negative, outside of the picture frame with each exposure.



P]	
99]	
hut-	
645	
ted.	ADVANCI
om-	A
sure	N
	Ē
	ő
	PE
	RA
	OPERATIONS
[an	^o z
con-	s

Data type	Imprinted description		
Characters	Capital letter [A to G] is imprinted to identify the camera.		
Number of films	[1 - 199] can be imprinted. Beyond 199, it returns to 1.		
Number of frames	[1-99] can be imprinted.		
Exposure mode	[M] (Metered Manual), [Tv] (Shutter-priority AE), [Av] (Aperture-priority AE) or [P]		
	(Programmed AE) can be imprinted.		
Shutter speed	[The shutter speed] displayed in the viewfinder is imprinted. For bulb exposure, up to [9999		
	seconds can be imprinted. Beyond 9999 seconds, [BULB] will be imprinted. [LS] for lens shut-		
	ter is used, [X] for when the shutter speed dial is set to the X position.		
Aperture setting	[Aperture value] displayed in the viewfinder is imprinted. When the 67 lens adapter or the 64		
	Helicoid Extension Tube having no lens information contacts are used, [F] will be imprinted.		
Exposure compensation value	When the exposure compensation is not enabled, [±0.0Ev] is imprinted. The exposure com-		
	pensation value for the auto bracketing is also imprinted. If both auto bracketing and exposure		
	compensation are used, the sum is imprinted.		
Auto bracketing	[AEB] is imprinted when the pictures are taken in auto bracketing mode.		
Metering mode	(Multi-segment), (Center-weighted), (Spot)		
AE lock	[AE-L] is imprinted with the AE-lock function used.		
Flash status	[5] is imprinted when a Pentax dedicated flash is fired.		
Focal length of lens	[Focal length] is imprinted when the FA lens is attached. When the FA zoom lens is in use, [a		
	approximate value of focal length] is imprinted. [mm] is imprinted when the A-lens, rear co		
	verter or etc. is mounted.		
Focus mode	[AF] is imprinted with the autofocus mode used. [MF] is imprinted with the manual focus mod		
	used.		
Autofocus mode	[S] is imprinted with Single AF mode used. [C] is imprinted with Continuous AF mode used.		
AF area	[WIDE] is imprinted with the 3-point AF mode used. [SPOT] is imprinted with the spot AF mode		
	used.		
Focus point	With the 3-point AF is set, which focus point is used imprinted with L (left), R (right), or C (cen		
	ter).		
Film speed	Set the film speed ISO 6 to 6400 is imprinted.		

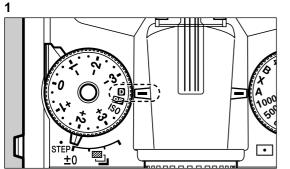


To set

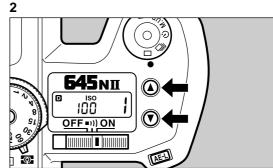
- 1. Set the exposure compensation dial to [D]. [D] will be displayed on the LCD panel.
- 2. Press up/down button repeatedly until [on] appears on the LCD panel.

If [D] is displayed on the LCD panel, the exposure data will be imprinted on the negative.

- With a 645 A- lens attached, the exposure data but not the focal length of the lens will be imprinted even if [D] is displayed on the LCD panel.
- With an accessory without the lens information contacts such as a helicoid extension tube attached, the exposure data but not the focal length and aperture setting of the lens will be imprinted even if [] is displayed on the LCD panel.
- Since the exposure data are imprinted on the outside of picture frame, the data will not be seen on the actual photographs.
- The shutter cannot be released with the exposure compensation dial set at [D].
 Download from Www.Somanuals.com. All Manuals Search And Download.



- To cancel the Exposure Data Imprint Mode
- 1. Turn the power ON.



- Set the exposure compensation dial to [D].
 Depress the up/down button repeatedly to display [OFF] on the LCD panel.
- To return to the Exposure Data Imprint Mode, repeat the above step and [on] will reappear on the LCD panel.

68 USING A PENTAX DEDICATED EXTERNAL FLASH

Using the TTL Auto Flash

- 1. Remove the hot shoe cover and attach a Pentax dedicated flash unit.
- 2. Turn the flash ON.
- 3. Set the flash to TTL Auto mode.
- 4. Confirm that the flash is fully charged.
- 5. Focus on the subject and release the shutter.

Auto Bracketing Exposure mode with a Pentax TTL dedicated flash

When the auto bracketing exposure mode is selected with a Pentax dedicated TTL flash in use, only the amount of flash output is varied.

- For more details, read the flash operating manual.

Exposure Compensation with a Pentax TTL dedicated flash

When the exposure compensation is set with a Pentax TTL flash in use, it makes possible to adjust the brightness of the subject on the background and the main subject respectively.

AF500FTZ, AF330FTZ and AF360FGZ

- These flash units feature a built-in infrared spotbeam to assist the autofocus system in dim light and low-contrast conditions.
- The auto zoom function will automatically adjust the angle of discharge according to the lens focal length only when a 645 FA lens is in use.
- The AF500FTZ and AF360FGZ feature a wireless slavesync flash function.
- The flash effective range appears on the LCD panel only when an a 645 A- lens is in use, or FA lens is in use.
- Multiple flash burst on a single frame are possible with the AF500FTZ.
- In the Programmed AE, Shutter-Priority AE, or Aperture-Priority AE, the TTL Auto Flash Mode will be set automatically even if the flash is set to Manual.
- With AF360FGZ, the picture format size can be selected depending on the camera format being used.

AF240FT, AF400FTZ

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

AF200T, AF220T, AF280T, and AF400T

 If the TTL auto mode is selected, these flash units can be used for daylight-sync shooting, because the shutter speed is adjusted according to the ambient brightness. The slower shutter speed varies according to the lens focal length. The shutter speed varies within the shutter speed range of 1/60 of second to a slower speed which does not cause camera shake. However, when a 645 Alens is in use, the shutter speed is set to 1/60 of second. The aperture value will also be fixed but will vary depending on what ISO film is loaded. • When using the Three-Level Auto (red, green, and yellow settings) mode, the aperture value is adjusted as shown in the table. When the flash is fully charged, the shutter speed also varies within the shutter speed range of 1/60 to a slower speed which does not cause camera shake. The slowest shutter speed varies according to the lens focal length. When a 645A - lens is use, the shutter speed will be set to 1/60 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 71).

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.	0	0	0	0
Automatic aperture setting in the Programmed AE Mode or Shutter-Priority AE mode.	0	0	O*1	0
Flash confirmation signal in the viewfinder	0	0		
TTL auto flash	0	0	0	
Auto flash	O*2		O*3	0
Slow-speed sync in the Shutter-Priority AEMode or Metered Manual Mode	0	0	O*4	0
AF spotbeam	0	0		
Trailing-shutter-curtain sync flash	0	0		
Contrast-control flash mode	0			

TYPE A : AF500FTZ(*3), AF360FGZ, AF330FTZ TYPE C : AF400T, AF280T, AF220T, AF200T, AF080C, AF140C

Notes:

- *1. When using a Type C flash (except AF220T) in the MS (Manual Sync) or M (Manual) modes, set the camera's exposure mode to the Aperture-Priority AE Mode, Manual or Bulb. The Program and Aperture-Priority AE Modes cannot be used because the actual required aperture value may change.
- *2. AF500FTZ and AF330FTZ do not have the auto flash capability.
- *3. AF140C and AF080C do not have the auto flash capability.
- *4. In the MS (Manual Sync) or M (Manual) mode, the Shutter-Priority AE cannot be used because the actual required aperture val@comagachaogeWww.Somanuals.com. All Manuals Search And Download.

TYPE B : AF400FTZ, AF240FT TYPE D : AF200SA, AF201SA

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.
- Some large studio type flashes may have reversed contacts and may not fire with the 645_{NI} camera. For further information, contact the manufacturer or local supplier of the flash unit. Also, some studio flash units may not sync properly and part of the image could be blacked out by the second shutter curtain. It is recommended, for safety's sake, to use a shutter speed one step slower than flash sync speed.

DAYLIGHT- SYNC SHOOTING



Without Daylight-Sync



With Daylight-Sync

Purpose

When taking a portrait in daylight, the subject's face may be cast in shadow. The use of a flash will help eliminate the unwanted shadow.

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

• If the background is too bright, it may be overexposed.

SLOW-SPEED-SYNC SHOOTING

Purpose

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

To set

With the Metered Manual Mode set

- 1. Turn the flash on.
- 2. Set the camera's exposure mode to the Metered Manual Mode.
- 3. Select an appropriate shutter speed (slower than 1/60 of second) and aperture combination for a correct exposure.
- 4. Release the shutter.

To set

With the Shutter-Priority AE Mode set

- 1. Set the camera's exposure mode to the Shutter-Priority AE Mode.
- 2. Set the desired shutter speed.
- If the aperture in the viewfinder blinks, a correct exposure will not be obtained for the background. Adjust the shutter speed until the blinking stops.

Turn the flash on. Take the picture.

- If the power is on before the desired shutter speed is selected, the proper exposure for the background will not be obtained. Be sure to select the shutter speed before the flash is turned on.
- In the slow-speed-sync shooting, use of a tripod is recommended to prevent camera shake.

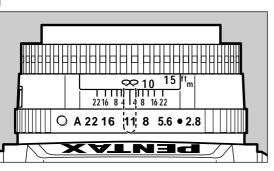
73

Download from Www.Somanuals.com. All Manuals Search And Download.

USING THE PREVIEW LEVER

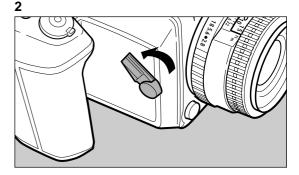
1

74



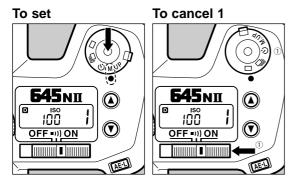
To confirm the depth of field in the viewfinder, depress the preview lever.

1. Turn the lens aperture ring a position other than the [A] position.



- 2. Depress the preview lever. The aperture will stop down to the preset value, and the depthof-field can be confirmed through the viewfinder.
- The lens aperture is closed down while holding the preview lever.
- The shutter cannot be released while depressing the preview lever.
- The depth-of-field cannot be confirmed with the lens aperture set to [A].

MIRROR LOCK-UP

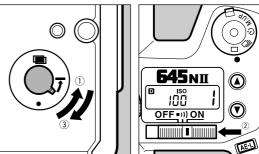


This camera is equipped with a mirror lock-up facility.

To set

- 1. Set the drive mode selector to [M. UP].
- 2. Press the shutter release button fully to swing up the mirror.
- 3. Press the shutter release button again. The shutter is released.
- The exposure is locked just before the mirror goes up.
- The audible PCV signal's beeping can be enabled and will be heard with the drive mode selector set at [=))].

To cancel 2



To cancel

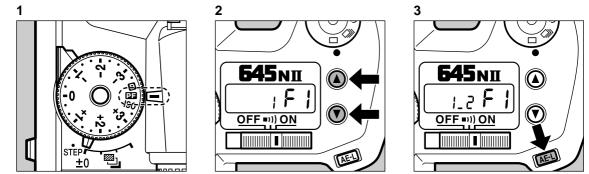
- 1. With the exposure mode set to the Aperture-Priority AE mode. Metered manual mode or Bulb exposure mode.
- (1) Set the Drive mode selector to a position other than [M. UP] or set the main switch to [OFF].
- 2. With the exposure mode set to the Programmed AE or Shutter-Priority AE mode:
- 1) Set the multi-exposure switch to the ON position.
- (2) Set the drive mode selector to a position other than [M. UP] or set the main switch to [OFF].
- ③ Set the multi-exposure switch to the original position.

Note:

Without setting the multi-exposure switch to the ON position, the film is advanced by 1 frame when the mirror Download from Www.Somanuals.com. Ale Mansials the activity and positionad.

ADVANCED OPERATIONS

PENTAX FUNCTIONS



SETTING PENTAX FUNCTIONS

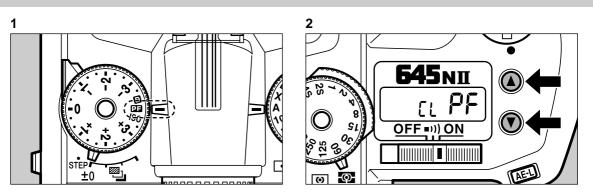
The camera provides 10 Pentax Functions so you can set the camera accordingly to your preferences.

To set:

76

- 1. Turn on the camera. Set the exposure compensation dial to [PF].
- Function No. and setting content will be displayed on the LCD panel.
- 2. Press the up or down button to display the Pentax Function No.F0 to F9 you want to set.
- 3. Press the AE-lock button to select the setting content.
- 4. The Pentax function No. and setting content will be set when the exposure compensation dial is set to other than [PF].
- The shutter cannot be released with the exposure compensaion dial at [PF].

Download from Www.Somanuals.com. All Manuals Search And Download.



Resetting the Pentax Function

To reset all the Pentax Functions to the initial settings in the following procedures.

- 1. Set the exposure compensation dial to [PF].
- 2. Hold down the up and button at the same time for more than 2 seconds. [CL] will be displayed on the LCD panel and all Pentax Functions are reset to initial setting.

SETTING PENTAX FUNCTION

[PF 0] Imprinting the character (capital letters A - G) If the imprinting is enabled, a capital letter can be imprinted on the negative.

If the user has more than two cameras a different letter can be set to identify the negatives from each camera.

Pentax Function No. 0

78

[PF 1] Setting the shutter speed step For use with the Shutter-Priority AE or Metered Manual Mode set, the shutter speed step can be set to either 0.5 or 1 EV steps.

Pentax Function No. 1 1/2EV step (initial setting)

|--|

1.0EV step (follows the shutter speed dial)



[PF 2] Setting the metering timer The metering will stay on for 10 seconds but can be changed to 20 or 30 seconds.

Pentax Function No. 2

20 seconds

30 seconds

10 seconds (initial setting)





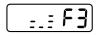
30'' **F C'**

[PF 3] Setting the auto bracketing sequence You can set the sequence of the auto bracketing exposures.

Pentax Function No.3

Proper exposure \rightarrow Under exposure \rightarrow Over exposure

Under exposure \rightarrow Proper exposure \rightarrow Over exposure



_<u>.</u>:F3

E ... F 3

Over exposure → Proper exposure → Download from Www.Somanuals.com. All/Indemusks@search And Download. [PF 4] Setting the self-timer delay timeWThe self-timer delay time can be set to 12 sec. or 2Exsec. If the 2 sec. self-timer is set, the mirror is locked-ifup when the shutter release button is pressed and thestshutter will be released after 2 seconds.st

Pentax Function No. 4

Self-timer delay of 12 sec. (initial setting)



200 **|-**

Self-timer delay of 2 sec. with mirror lock-up

[PF 5] Setting the exposure compensation step Set the exposure compensation step 1/3EV or 1/2EV step.

Pentax Function No.5

Selecting an exposure compensation step of 0.3EV or 0.5EV

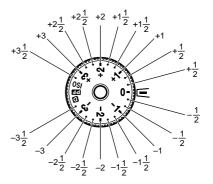
1/3EV (initial setting)



1/2EV



With the exposure compensation step is set to 1/2 Exposure compensation can only be set to 1/2 step even if the exposure compensation dial is set to 1/3 or 2/3 steps.



In the viewfinder, when the 1/2 step is set, two bars are displayed on the bar graph.



Download from Www.Somanuals.com. All Manuals Search And Download

[PF 6] Enabling/disabling the program line for shifting.

The program line of Programmed AE Mode can be shifted according to your shooting preferences.

Pentax Function No.6

Disabling the programmed line shift (initial setting)



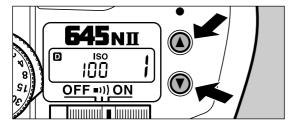
Enabling the programmed line shift



With the programmed line shift is enabled

The programmed line is shifted 0.5EV step each time the up/down button is depressed.

Holding the button will shift the program line continuously.



 The shutter speed increases and the aperture opens up by depressing the up button. Conversely, the shutter speed decreases and the aperture closes down by depressing the down button. Download from Www.Somanuals.com. All Manuals Search And Download.

- . The shifted shutter speed and aperture values are displayed in the viewfinder.
- To cancel the program shift, set the main switch to OFF or change the exposure mode.

[PF 7] Setting the frame counter indication The frame counter can be set to a count-up indication or to a count-down indication.

Pentax Function No.7

Count-up indication (initial setting)



Count-down indication

	 0	۶ŋ
<u> </u>		

[PF 8] Enabling/disabling displaying of the number of films taken and frame counter in the viewfinder The number of films taken and the frame counter are displayed in the viewfinder while holding the Auto bracketing selector to [STEP] position.

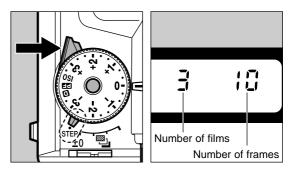
Pentax Function No.8

Disabling the display in the viewfinder (initial setting)

Enabling the display in the viewfinder

L	Loff	ro
$\left[\right]$	[on	68

r n)



How to display

Hold the auto bracketing selector to [STEP] position. The total number of films taken and the current exposure counter are displayed in the viewfinder.

Download from Www.Somanuals.com. All Manuals Search And Download.

[PF 9] Changing the number of frames taken Changes the maximum frames can be taken when 120 film or 220 film is loaded.

Pentax Function No.9

The maximum frames can be taken is changed depending on the type of film holder is attached.

LCD panel	indication	Sotting contents	
With 120 film back attached	With 220 film attached	Setting contents	
,5 F 9	32 F 9	15 or 32 frames (initial setting) With 120 film holder 15 frames With 220 film holder 32 frames	
:6 F 9	33 F 9	16 or 33 frames With 120 film holder 16 frames With 220 film holder 33 frames	

- With 16 or 33 frames set, the film flatness of 2nd frame may be deteriorated in the consecutive-frame mode.
- The number of frame taken can be changed before 1st frame is taken. After 1st frame is taken, the number of frames cannot be changed until the film is removed.

ACCESSORIES (OPTIONAL)

A number of dedicated accessories are available for this camera.

Cable Switch CS-105/CS-130

A shutter release cord designed for use with the $645_{\rm NI}$ and MZ-S. The length of cable for CS-105 is 50cm and CS-130 is 3m.

• Release Timer Switch TS-110

 $645_{\ensuremath{\mathbb{N}}\xspace1}$ and MZ-S dedicated shutter release device for interval and timer shooting.

Magnifier 645

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

Refconverter A

Right angle finder which attaches the viewfinder. The viewfinder magnification can be switched from 1X to 2X.

• AF500FTZ

A TTL Auto Zoom flash with a built-in AF spotbeam 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.

• AF360FGZ

A P-TTL and TTL auto zoom flash with a built-in AF spot beam and guide number of 36 in meters (ISO 100). It features a bounce-flash capability, slave-sync function, contrast-control-sync flash, leading/trailing-curtain-sync flash, modeling flash mode.

• AF330FTZ

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

• ÁF220T

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

• Hot Shoe Adapter FG, Extension Cord F5P (L) and Off-Camera-Shoe Adapter.

The adapters and cord which allow the AF240FT, AF330FTZ, AF360FGZ, AF400FTZ and AF500FTZ to be used off the camera, while maintaining full electronic coupling to the camera.

Macro Flash AF140C

A TTL macro flash unit with the guide numbers 14 in meters (ISO 100).

• Filters

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

Remote Battery Pack 645

The remote battery pack is an accessory to keep batteries warm when photographing in extremely cold temperature.

• Film back 645

120 film back and 220 film back are available.

• Quick Shoe Adapter QS-20/Quick Shoe Base QS-B1 The camera can be attached or removed from the tripod in seconds.

Download from Www.Somanuals.com. All Manuals Search And Download.

83

84

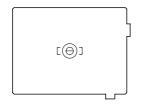
Interchangeable screen

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

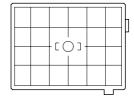


AS-80 (AF Center Spot Matte)

The standard focusing screen for general photography.

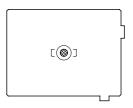


AB-82 (AF Sprit-Image Matte) Matte screen with the sprit image.



AG-80 (AF Cross-Lined Matte)

Designed to guide picture compositions. The sectional lines for horizontal and vertical are graduated in 9mm.



AA-82 (AF Microprism Matte)

For general use, the matte screen with the microprism.

Download from Www.Somanuals.com. All Manuals Search And Download.

Notes on Accessories

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

Double Cable Release

• When using the Auto Bellows 645 with 645_{NI} camera, the double cable release A is required for releasing the shutter. If your Auto Bellows 645 does not include the double cable release A, the double cable release A is available as an optional accessory.

How to attach

- 1 Attach the double cable release so that the end with the red end ring of the double cable release is connected to the socket with the red ring in the lower part of the front board of the Auto Bellows 645.
- 2 The other end fits into the shutter release button.

Adjust the double cable release so that when the double cable release is pushed with the lens set at the minimum aperture, the shutter is released after the lens is fully stopped down. If the shutter is released before the aperture is stopped fully down to its minimum. Adjust the cable so that the end with the red ring to extend further and/or the end that attaches to the shutter button to extend less.

Adjustment procedures

To extend the length, turn the knurled front ring to the left (when viewed from front end), and then turn the back knurled ring to the left (when viewed from front end) while holding the front ring.

To shorten the length, turn the back knurled ring to the right (when viewed from front), and then turn the front knurled ring to the right while holding the back knurled ring.

TROUBLESHOOTING

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

Symptoms	Causes	Remedies	Reference
	The last frame is exposed and wound onto the take-up spool.	Remove the film from the film back.	P.25
The short has been a second short	The main switch is set to [OFF].	Set the main switch to [ON].	P.14
The shutter cannot be	The battery warning [] appears.	Replace the battery.	P.12
released.	The self-timer mode is being set.	Cancel the self-timer mode.	P.35
	The exposure compensation dial is being set to D, PF or ISO.	Turn the exposure compensation dial other than D, PF or ISO.	P.24, P.66, P.76
		Press the shutter release button after loading the film.	P.20
	The main switch is the [OFF] position.	Turn the main switch to [ON].	P.14
Indicators do not appear on	No battery has been installed.	Install the batteries.	P.12
the LCD panel.	The batteries are improperly installed	Install the batteries properly.	P.12
	The batteries are dead.	Replace the batteries.	P.12
	AF frame is not placed over the subject.	Move the camera until the AF frame [[]] covers the subject.	P.36
The camera does not focus.	The subject is too close.	Increase the camera-to-subject dis- tance.	P.36
	The focus mode is set to [MF].	Set the lens in the autofocus posi- tion.	P.32
	The subject is difficult to autofocus.	Use the focus technique or focus manually using the matte field.	P.60, P.62

Ξ

OTHERS

ield.	1.02, 1.00	
 Press the mid-roll wind-up button to wind the film, then consult your Pentax distributor or authorized Pentax repair shop. [[rr] indication stays on and bat- tery warning [1] blinks even if the mid-roll wind-up button is pressed. In this situation, replace the battery and press the mid-roll wind button again. 		III
		OTHERS

Causes	Remedies	Reference
The subject is too close or difficult to autofocus.	Use the focus-lock technique or focus manually using the matte field.	P.62, P.63
	 Press the mid-roll wind-up button to wind the film, then consult your Pentax distributor or authorized Pentax repair shop. 	
The camera may be defective.	• [Err] indication stays on and bat- tery warning []] blinks even	

Symptoms

[•] blinks in the viewfinder.

[Err] blinks on the LCD

panel.

SPECIFICATIONS

- Type: _____ TTL autofocus, auto-exposure 6 x 4.5 format SLR camera
- Format: _____ 56 x 41.5mm
- Usable Film: 120 roll film (16 exposures) with 120 film holder, 220 roll film (33 exposures) with 220 film holder and 70mm roll film (about 95 exposures) with 70mm film holder
- Usable Film Speed: ---- ISO 12 6400
- Exposure Modes: —— Programmed AE Mode, Shutter-Priority AE Mode, Aperture-Priority AE Mode, Metered Manual Mode, Bulb Mode, TTL Flash Mode
- Shutter: _____ Electronically-controlled vertical-run cloth focal-plane shutter, Speed range: (1) Auto 1/1000-30 sec.(stepless), (2) Manual 1/1000-6 sec.(3) Bulb,
- Lens Mount: ——— Pentax 645 AF mount (645 A-mount with AF coupler, lens information contacts)
- Compatible Lens: ------ Pentax 645 AF mount, Pentax 645 A-mount
- Autofocus System: TTL phase-matching multi-(3 points) autofocus system switchable to Spot focusing, AF operational brightness range: EV -1 to 18 (at ISO 100), Focus lock available using shutter release button, Focus Mode: CONTINUOUS (predictive AF provided), SINGLE, Manual [MF]
- Viewfinder: Keplerian telescopic viewfinder with Natural-Bright-Matte focusing screen (Interchangeable focusing screens available), Field of view: 92% vertical and 93% horizontal, Magnification:0.76X(with 75mm lens at infinity), Diopter: -3.5 to +1.5 m⁻¹, 3-point AF frame, Spot AF frame, Spot AF range
- Viewfinder Indication: Focus Information: In-focus (Green lamp [] is lit), front or back focus signals and unable-to-focus indicator (Green lamp blinks), Shutter speed indication, Aperture indication, Flash ready indication [≄] is lit, Bar graph (exposure compensation), Auto bracketing indicator, Over or Under exposure indication in Manual Exposure Mode, [2] exposure compensation indication, [★] AE lock indicator
- External LCD panel [1] = possible to imprint exposure data, [1] = Battery exhaustion warning, Film speed, ISO indication, Film Indication:
- Self-timer: ______ Electronically-controlled type with delay time of 12 sec. or 2sec. delay when mirror lock-up in use. Start by depressing of shutter release button, Operation confirmation: By PCV beep tone. Cancelable after operation Mirror: ______ Instant-return mirror with AF secondary mirror. Mirror lock-up is possible.

Download from Www.Somanuals.com. All Manuals Search And Download.

88

OTHERS

Film Winding: --------- Auto film winding by built-in motor with single/consecutive mode, Approx.2.0 frames/sec.(consecutive mode)

Exposure Meter: — TTL dual six-segment metering, Metering range from EV2 to EV21 at ISO100 with 75mm f/2.8 lens, Centerweighted and Spot metering mode can be set

Exposure <u>+3.3EV</u> in 0.3EV step increments Compensation:

Multiple Exposure: ----- Via Multi-exposure switch

- Auto bracketing: 1/3EV step increments, 2/3EV step increments, 1EV step increments, Possible to use with exposure compensation
- Flash sync: Via Hot shoe with X-sync. contact with couples with Pentax dedicated auto flashes, X-sync speed at 1/60 sec., Slow shutter speed synchronization possible in Metered Manual Mode, X-sync. socket is provided, ISO range=25-800
- Exposure Data ——— Possible to imprint the exposure data on the outside of the picture frame. Characters, number of films, frame number, exposure mode, shutter speed, aperture value, exposure compensation, metering mode and focal length

Pentax Function: ----- 10 user defined functions

Power Source: ———— Six AA-size 1.5V batteries (Alkaline or Lithium battery), an optional Remote battery pack 645 is attachable with connecting the power cord.

Battery Exhaustion — Battery exhaustion symbol [1] is lit (blinking when the shutter is locked; no indication in the viewfinder.) Warning:

Dimensions and —— 147.0mm(W) x 109.0mm(H) x 117mm(D) (5.8"x4.3"x4.6") 1280g (45.2 oz) body only without batteries. Weight:

Supplied ———— Body mount cap 645, Rear body cap 645, Release socket cap, Strap D, Large eye cap 645, and Hot shoe cover Accessories: FK.

SPECIFICATIONS ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTIFICATION OR ANY OBLIGATION ON THE PART OF THE MANUFAGEURER/Www.Somanuals.com. All Manuals Search And Download.

WARRANTY POLICY

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

OTHERS

Procedure During 12-month Warranty Period.

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

OTHERS

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

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

STATEMENT OF FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experience radio/TV technician for help.

This class B digital apparatus meets all requirements of the Canadian Interference - Causing Equipment Regulations.

Cet appareil numérique de la class B respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

93

Welcome to the Fantastic World of Pentax Autofocus Multi-Mode Medium Format Photography

The Pentax 645_{NI} , our latest development in the area of the medium format SLR, promises a superior 6 x 4.5cm result with 120, 220, or 70mm film.

Made possible through our vast experience and technology accumulated over the years, the new autofocus multi-mode 645_{NI} assures pinsharp focus accuracy with AF Spot and AF Wide selection, and the 6-segment multi-pattern metering allows precise exposure control under widely varying conditions. Unsurpassed versatility is assured through the utilizing of a full range of exposure modes (Programmed AE, Aperture-Priority AE and Shutter-Priority AE, Metered Manual and TTL auto flash control), an exposure compensation control and auto-brack-eting mode and a new user-set Pentax Function to customize the 645_{NI} to meet the for user's shooting preferences. With a 645 A- or FA lens attached, the 645_{NI} imprints relevant information (frame number, shutter speed, aperture setting, exposure control and auto-bracketing mode.

The Pentax 645_{NI} is a professional camera possessing a number of highly sophisticated features: built-in automated film wind, an external LCD information panel and clearly visible LCD information in the viewfinder.

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.

MEMO

Download from Www.Somanuals.com. All Manuals Search And Download.



Asahi Optical Co., Ltd. 2-36-9, Maeno-cho, Itabashi-ku, Tokyo 174-8639, JAPAN (http://www.pentax.co.jp)
Pentax GmbH (European Headquarters) Julius-Vosseler-Strasse, 104, 22527 Hamburg, GERMANY
(HQ - http://www.pentaxeurope.com Germany - http://www.pentax.de)
Pentax U.K. Limited Pentax House, Heron drive, Langley, Slough, Berks SL3 8PN, U.K. (http://www.pentax.co.uk)
Pentax France S.A. 12/14, rue Jean Poulmarch, 95106 Argenteuil Cedex, FRANCE
Pentax Benelux B.V. (for Netherlands) Spinveld 25, 4815 HR Breda, NETHERLANDS (http://www.pentax.nl)
(for Belgium & Luxembourg) Weiveldlaan 3-5, 1930 Zaventem, BELGIUM (http://www.pentax.ch)
Pentax Cschweiz) AG Widenholzstrasse 1 Postfach 367 8305 Dietlikon, SWITZERLAND (http://www.pentax.ch)
Pentax Scandinavia AB P.O. Box 650, 75127 Uppsala, SWEDEN (http://www.pentam.gelGIUM
Pentax Corporation 35 Inverness Drive East, Englewood, Colorado 80112, U.S.A. (http://www.pentax.com)

Pentax Canada Inc. 3131 Universal Drive, Mississauga, Ontario L4X 2E5, CANADA (http://www.pentaxcanada.ca)

CE

The CE marking assures that this product complies with the requirements of the EC directive for safety.

Copyright © Asahi Optical Co.Ltd. 2001 ad. 01-200109 Printed in Japan

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com