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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX 645N II. You'll find the answers to all your questions on the PENTAX 645N II in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX 645N II
User guide PENTAX 645N II
Operating instructions PENTAX 645N II
Instructions for use PENTAX 645N II
Instruction manual PENTAX 645N II



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...57 Setting the focus mode in the Continuous position. @@@@ @@@@ · 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. 7 · 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. 8 Other precautions · The temperature range at which this camera functions properly is 50°C to -10°C (122°F to 14°F). · A camera which has been submerged in water usually cannot be repaired. If such an accident should occur, it is advisable to contact a Pentax Service Center immediately. · To maintain optimum performance, it is recommended that the camera be inspected every one or two years. If the camera has not been used for an extended period, or is being prepared for an important photographic session, it is recommended that you have the camera inspected or test shoot with it. · Repairs deemed necessary due to usage of this product in an industrial or commercial application may not be covered under the terms of the Pentax warranty. · The PENTAX warranty provides only for the repair of defects in materials or workmanship.

Damage of any kind cannot be repaired at no charge under the terms of the warranty. If the difficulty is caused as a direct result of the product being used in conditions as outlined in the "Precautions for Your Camera" section or any other operation contrary to the instructions outlined in this manual, charges will be assessed and a repair quotation will be provided. 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. 10 Icon indicators used in this manual Operation direction Attention Lamp blinking I. BASIC OPERATION (PREPARATION) ATTf 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. 85 .6 2.

8 2 85 .6 ft m ft m * How to remove To remove the lens, turn it to the left while depressing the lens unlock button.



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· 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. 2.8 18 1 BASIC OPERATION (PREPARATION) ATTACHING/DETACHING FILM HOLDER 645 2 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.

19 3 · 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 change ISO for a lower film speed, press the [w] 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 2 3 25 BASIC OPERATION (PREPARATION) 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. [] 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 1 BASIC OPERATION (PREPARATION) UNLOADING THE FILM IN MID-ROLL 2 3 4 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 [] 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 1 2 3 27 BASIC OPERATION (PREPARATION) 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. · 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. 28 ADJUSTING THE VIEWFINDER DIOPTER · The diopter adjustment range is +1.0D to -3.

5m -1 (per meter). BASIC OPERATION (PREPARATION) 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. 29 BASIC OPERATION (SHOOTING) II. BASIC OPERATION (SHOOTING) 30 1 USING THE PROGRAMMED AE MODE 2 10 15 22 16 8 4 4 8 16 22 ft BASIC OPERATION (SHOOTING) m A 2 2 16 11 8 5.6 2.8 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. USING THE MULTI(6)-SEGMENT METERING MODE 31 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 []. 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. BASIC OPERATION (SHOOTING) · 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-segment mode cannot be used. 32 USING AUTOFOCUS MODE · Switching between the autofocus 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 autofocus mode and manual mode. MF AF BASIC OPERATION (SHOOTING) With the Pentax 645 FA lens attached, the lens automatically focuses when you press the shutter release button halfway down.



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Set the lens in the autofocus mode. USING THE SINGLE AF MODE 33 · Continuous AF Mode is also available in this camera. See page 58. BASIC OPERATION (SHOOTING) 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]. 34 USING THE 3-POINT AF MODE USING THE SINGLE-FRAME DRIVE MODE BASIC OPERATION (SHOOTING) 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 []. One picture is taken each time the shutter release button is depressed. Set the drive mode dial to []. HOLDING THE CAMERA Camera held horizontally Camera held vertically 35 BASIC OPERATION (SHOOTING) 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.) · 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 recommended. 36 1 TAKING A PICTURE 2 · 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 [] 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 camera-subject distance. 2. The subject is difficult to autofocus.

See "HARD-TO-AUTOFOCUS" on page 63. BASIC OPERATION (SHOOTING) Set the lens 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. 37 · 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 ConsecutiveFrame 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. BASIC OPERATION (SHOOTING) 38 SELECTING A DRIVE MODE ADVANCED OPERATIONS 3. ADVANCED OPERATIONS Consecutive-Frame Mode Consecutive pictures can be taken by holding down the shutter release button. Set the drive mode selector to []. · 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. 39 1 2 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 []. 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 [] 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. 40 1 MULTIPLE EXPOSURE MODE 2 3 ADVANCED OPERATIONS 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. 41 4 5 ADVANCED OPERATIONS 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. · 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. 42 1 SELECTING AN EXPOSURE MODE 2 3 10 15 22 16 8

4 4 8 16 22 ADVANCED OPERATIONS f t m A 2 2 16 11 8 5.6 2 Using the Programmed AE Mode Purpose 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.



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· 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. 43 * * 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.

ADVANCED OPERATIONS 44 1 2 10 15 22 16 8 4 4 8 16 22 ft m A 22 16 11 8 5.

6.2.8 ADVANCED OPERATIONS Using the Aperture-Priority AE Mode Purpose When the desired aperture is selected, an appropriate shutter speed is automatically set by the camera for a proper exposure. This mode is ideal for shooting 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. 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. 45 3 4 * 10 15 22 16 8 4 4 8 16 22 ft m A 22 16 11 8 5.

6.2.8 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. @ @ It may not be 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. 46 1 2 10 15 22 16 8 4 4 8 16 22 ft m A 2 2 16 11 8 5.6 2.8 ADVANCED OPERATIONS 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. 47 3 * ADVANCED OPERATIONS 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 [X] (1/60 of second) position.

* 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. 48 1 2 10 15 22 16 8 4 4 8 16 22 ft m A 22 16 11 8 5.6 2.8 ADVANCED OPERATIONS 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 overexposed 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. 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 attached, [LS] appears on the LCD panel. 49 4 4 5 * 10 15 22 16 8 4 4 8 16 22 ft m A 22 16 11 8 5.6 2.8 ADVANCED OPERATIONS 4. 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. 50 1 2 3 10 15 22 16 8 4 4 8 16 22 ADVANCED OPERATIONS fA 22 16 11 8 5.6 Using the Bulb Exposure Mode Purpose This mode is useful for the long exposures required for shooting night scenes and fireworks.



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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. 2. Set the shutter speed dial to [B]. 3. @ · Set the shutter speed dial to the [B] position. @ · Up to approx. @ · To set 1.

@ · 2. The exposure compensation dial locks at the [0] position. @ · 3. @ · Selection of auto bracketing amount. @ · 2. Release the finger from the auto bracketing selector. @ · Auto Bracketing Exposure Mode combined with the Metered Manual Mode. @ · The auto bracketing will take effect only to the set-shutter speed. @ · 2. Press the shutter release button fully. @ · Three pictures are taken consecutively as follows. @ · Select the desired metering mode with the metering mode selector. @ · Creative exposure control is decided by the user. To use Set the metering mode selector to the [tion. @ · In this metering mode, the camera does not automatically compensate the exposure in backlit or spotlight situations like the Multi (6) - Segment Metering Mode. Creative exposure control is decided by the user. 56 1 2 ADVANCED OPERATIONS Metering area 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 [J]. 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 57 · 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. ADVANCED OPERATIONS 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. 58 SETTING THE FOCUS MODE SWITCH TO THE CONTINUOUS POSITION 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. ADVANCED OPERATIONS 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]. USING THE SPOT AF MODE 1 2 59 ADVANCED OPERATIONS AF area 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 [J]. 2. Focus on the main subject with the Spot AF frame. · When the main subject is off the Spot AF frame, use the focus-lock technique. See page 60. 60 1 FOCUS LOCK FUNCTION 2 3 ADVANCED OPERATIONS 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 [J]. 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 selector is at [C]. 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. @ · Set the lens in the manual focus mode. @ · For more details, read the operating manual of the lens.

2. @ · 3. @ · 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. ADVANCED OPERATIONS 63 1 2 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.

ADVANCED OPERATIONS 10 15 ft m MF AF 22 16 8 4 4 8 16 22 A 2 2 16 11 8 5.6 2.8 Subjects which may fool the autofocus system include: 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. a) Extremely low-contrast subjects such as a white wall in the autofocus frame [J]. b) Subjects which don't reflect much light in the autofocus frame [J]. c) Subjects which are moving too fast. d) Multiple subjects in the foreground and background of the autofocus frame [J].

e) Subjects positioned against reflected light or strong backlight or with extremely bright backgrounds. 64 IMPRINTING THE EXPOSURE DATA ON THE NEGATIVE !0 AE-lock !1 Flash status !2 Focal length of Lens !3 Focus mode !4 Autofocus mode !5 AF area !6 Focus point !7 Film speed 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. q Characters w Number of Films e Number of Frames r Exposure Mode t Shutter Speed y Aperture Setting u Exposure Compensation Value i Auto bracketing o Metering Mode w r u o !1 ADVANCED OPERATIONS !2 !4 !6 q e t y i !0 !3 !5 !7 65 Data type Characters Number of films Number of frames Exposure mode Shutter speed Imprinted description Capital letter [A to G] is imprinted to identify the camera.



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[1 - 199] can be imprinted. Beyond 199, it returns to 1. [1 99] can be imprinted. [M] (Metered Manual), [Tv] (Shutter-priority AE), [Av] (Aperture-priority AE) or [P] (Programmed AE) can be imprinted. [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 shutter is used, [X] for when the shutter speed dial is set to the X position. [Aperture value] displayed in the viewfinder is imprinted. When the 67 lens adapter or the 645 Helicoid Extension Tube having no lens information contacts are used, [F - -] will be imprinted. When the exposure compensation is not enabled, [±0.0Ev] is imprinted.

The exposure compensation value for the auto bracketing is also imprinted. If both auto bracketing and exposure compensation are used, the sum is imprinted. [AEB] is imprinted when the pictures are taken in auto bracketing mode. (Multi-segment), (Center-weighted), (Spot) [AE-L] is imprinted with the AE-lock function used. [] is imprinted when a Pentax dedicated flash is fired.

[Focal length] is imprinted when the FA lens is attached. When the FA zoom lens is in use, [an approximate value of focal length] is imprinted. [- - mm] is imprinted when the A-lens, rear converter or etc. is mounted. [AF] is imprinted with the autofocus mode used. [MF] is imprinted with the manual focus mode used. [S] is imprinted with Single AF mode used. [C] is imprinted with Continuous AF mode used. [WIDE] is imprinted with the 3-point AF mode used. [SPOT] is imprinted with the spot AF mode used.

With the 3-point AF is set, which focus point is used imprinted with L (left), R (right), or C (center). Set the film speed ISO 6 to 6400 is imprinted. Aperture setting Exposure compensation value ADVANCED OPERATIONS Auto bracketing Metering mode AE lock Flash status Focal length of lens Focus mode Autofocus mode AF area Focus point Film speed 66 1 2 ADVANCED OPERATIONS 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 [D] 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]. 67 1 2 ADVANCED OPERATIONS To cancel the Exposure Data Imprint Mode 1. Turn the power ON. 2. Set the exposure compensation dial to [D]. 3. 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 · When the flash is fully charged, the ready lamp on the flash unit lights up.

When the shutter release button is depressed halfway down, [] appears in the viewfinder indicating the flash is ready. · 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. 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. ADVANCED OPERATIONS 69 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 AperturePriority 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 AperturePriority 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.

ADVANCED OPERATIONS 70 · 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.

ADVANCED OPERATIONS 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). Red Green Yellow AF200T f/2.



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8 f/5.6 AF280T f/4 f/8 AF400T f/4 f/8 f/11 with ISO 100 71 Overview of Flash Function CAMERA FUNCTION After the flash is charged, the camera automatically switches to the flash-sync speed. Automatic aperture setting in the Programmed AE Mode or Shutter-Priority AE mode.

Flash confirmation signal in the viewfinder TTL auto flash Auto flash Slow-speed sync in the Shutter-Priority AEMode or Metered Manual Mode AF spotbeam Trailing-shutter-curtain sync flash Contrast-control flash mode TYPE A O O O O *2 O TYPE B O O O O O TYPE C O O *1 O O *3 O *4 TYPE D O O O O ADVANCED OPERATIONS O O O O O TYPE A : AF500FTZ(*3), AF360FGZ, AF330FTZ TYPE B : AF400FTZ, AF240FTZ TYPE C : AF400T, AF280T, AF220T, AF200T, AF080C, AF140C TYPE D : AF200SA, AF201SA Notes: Using other type of a flash *1. When using a Type C flash (except AF220T) in the MS · Use of non-Pentax flash units may damage the camera. (Manual Sync) or M (Manual) modes, set the camera's For the best results, use a Pentax dedicated flash unit. exposure mode to the Aperture-Priority AE Mode, · Some large studio type flashes may have reversed conManual or Bulb. The Program and Aperture-Priority AE tacts and may not fire with the 645N2 camera. For further Modes cannot be used because the actual required information, contact the manufacturer or local supplier of aperture value may change. the flash unit. Also, some studio flash units may not sync *2. AF500FTZ and AF330FTZ do not have the auto flash properly and part of the image could be blacked out by capability. the second shutter curtain.

It is recommended, for safe*3. AF140C and AF080C do not have the auto flash capaty's sake, to use a shutter speed one step slower than bility. flash sync speed. *4. In the MS (Manual Sync) or M (Manual) mode, the Shutter-Priority AE cannot be used because the actual required aperture value may change. 72 DAYLIGHT- SYNC SHOOTING 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. ADVANCED OPERATIONS Without Daylight-Sync · If the background is too bright, it may be overexposed. With Daylight-Sync 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. 73 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. ADVANCED OPERATIONS 3. Turn the flash on. 4. 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. 74 1 USING THE PREVIEW LEVER 2 10 15 62 2 18 5.6 2.8 ft m 10 15 22 16 8 4 4 8 16 22 ft m A 22 16 11 8 5.6 2.

8 ADVANCED OPERATIONS 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 To set To cancel 1 q 75 To cancel 2 w q ADVANCED OPERATIONS q e w 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 1. With the exposure mode set to the Aperture-Priority AE mode, Metered manual mode or Bulb exposure mode: q 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: q Set the multi-exposure switch to the ON position.

w Set the drive mode selector to a position other than [M. UP] or set the main switch to [OFF]. e 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 returns to the original position. 76 1

PENTAX FUNCTIONS 2 3 ADVANCED OPERATIONS SETTING PENTAX FUNCTIONS The camera provides 10 Pentax Functions so you can set the camera accordingly to your preferences.

To set: 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]. 77 1 2 ADVANCED OPERATIONS 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. 78 SETTING PENTAX FUNCTION [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 10 seconds (initial setting) 20 seconds [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 [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.



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5 or 1 EV steps. Pentax Function No. 1 1/2EV step (initial setting) ADVANCED OPERATIONS 30 seconds [PF 3] Setting the auto bracketing sequence You can set the sequence of the auto bracketing exposures. Pentax Function No.

3 Proper exposure ; Under exposure ; Over exposure Under exposure ; Proper exposure ; Over exposure Over exposure ; Proper exposure ; Under exposure 1.0EV step (follows the shutter speed dial) 79 [PF 4] Setting the self-timer delay time The self-timer delay time can be set to 12 sec. or 2 sec. If the 2 sec. self-timer is set, the mirror is locked up when the shutter release button is pressed and the shutter will be released after 2 seconds.

Pentax Function No. 4 Self-timer delay of 12 sec. (initial setting) 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. 1 +2 2 1 1 +2 +2 +1 1 2 2 +1 2 +3 1 +3 2 +1 1 + 2 1 + 2 ADVANCED OPERATIONS 1 2 1 3 2 3 1 1 2 1 1 1 2 2 2 1 2 2 1 1 2 In the viewfinder, when the 1/2 step is set, two bars are displayed on the bar graph. 80 [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 ADVANCED OPERATIONS 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 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. 81 [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 Number of films Number of frames 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.

ADVANCED OPERATIONS 82 [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 Setting contents With 120 film back attached With 220 film attached 15 or 32 frames (initial setting) With 120 film holder .. 15 frames With 220 film holder ... 32 frames 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. ADVANCED OPERATIONS

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 645N2 and MZ-S. The length of cable for CS-105 is 50cm and CS-130 is 3m. · Release Timer Switch TS-110 645N2 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, contrastcontrol-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. 83 · 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. · AF220T 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. ADVANCED OPERATIONS 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.) ADVANCED OPERATIONS AS-80 (AF Center Spot Matte) The standard focusing screen for general photography. AG-80 (AF Cross-Lined Matte) Designed to guide picture compositions.

The sectional lines for horizontal and vertical are graduated in 9mm. AB-82 (AF Sprit-Image Matte) Matte screen with the sprit image. AA-82 (AF Microprism Matte) For general use, the matte screen with the microprism. 85 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.



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Use a CIRCULAR POLARIZING FILTER for proper autofocus operation. Double Cable Release · When using the Auto Bellows 645 with 645N2 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. ADVANCED OPERATIONS 86 TROUBLESHOOTING Symptoms Causes Remedies Remove the film from the film back.

Set the main switch to [ON]. Replace the battery. Cancel the self-timer mode. Turn the exposure compensation dial other than D, PF or ISO. Press the shutter release button after loading the film.

Turn the main switch to [ON]. Install the batteries. Install the batteries properly. Reference P.25 P.14 P.12 P.35 P.24, P.66, P.

76 P.20 P.14 P.12 P.12 P.12 P.36 P.36 P.32 P.60, P.

62 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. The last frame is exposed and wound onto the take-up spool. The main switch is set to [OFF].

The shutter cannot be released. The battery warning [] appears. The self-timer mode is being set. The exposure compensation dial is being set to D, PF or ISO. The exposure counter does not indicate [].

depressed after loading the film. The main switch is the [OFF] position. Indicators do not appear on No battery has been installed. The batteries are improperly installed. The LCD panel. The batteries are dead. AF frame is not placed over the subject. OTHERS Replace the batteries. Move the camera until the AF frame [] covers the subject. Increase the camera-to-subject distance. The subject is too close.

The camera does not focus. Set the lens in the autofocus position. The focus mode is set to [MF]. The subject is difficult to autofocus. Use the focus technique or focus manually using the matte field. 87 Symptoms Causes Remedies Reference P.62, P.63 The subject is too close or difficult to focus. Use the focus-lock technique or [] blinks in the viewfinder. autofocus. focus manually using the matte field.

· Press the mid-roll wind-up button to wind the film, then consult your Pentax distributor or authorized Pentax repair shop. [] blinks on the LCD The camera may be defective. [] indication stays on and batpanel. tery warning [] 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.

OTHERS 88 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, [] exposure compensation indication, [] AE lock indicator External LCD panel [D] = possible to imprint exposure data, [Indication: counter] =Battery exhaustion warning, Film speed, ISO indication, Film OTHERS 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. 89 Film Loading: 120 and 220 films semi-automatically loaded with a start mark, 70mm film automatically loaded 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 $\pm 3.3EV$ 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.



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