



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX K100D SUPER. You'll find the answers to all your questions on the PENTAX K100D SUPER in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX K100D SUPER  
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## PENTAX™

SLR Digital Camera

### ***K100D Super***

Operating Manual



For optimum camera performance, please read the Operating Manual before using the camera.



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**Manual abstract:**

37 and p.188. @@Please take care, as there are even cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also. Regarding trademarks PENTAX, s and smc PENTAX are trademarks of PENTAX Corporation. PENTAX PHOTO Browser, PENTAX PHOTO Laboratory and SDM are trademarks of PENTAX Corporation. This product supports PRINT Image Matching III. @@@@Copyright 2001 Seiko Epson Corporation. All Rights Reserved. PRINT Image Matching is a trademark of Seiko Epson Corporation.

@@. SDHC Logo is trademark. @@To users of this camera · There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields. · The liquid crystal panel used in the LCD display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.

01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image. Regarding PictBridge PictBridge allows the user to connect the printer and digital camera directly, using the unified standard for the direct printout of images. You can print images directly from the camera through a few simple operations. · There is a possibility that the illustrations and the display screen of the LCD monitor in this manual are different from the actual product.

1 USING YOUR CAMERA SAFELY We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols. Warning Caution This symbol indicates that violating this item could cause serious personal injuries. This symbol indicates that violating this item could cause minor or medium personal injuries, or material losses. ABOUT THE CAMERA Warning · Do not disassemble or modify the camera. High voltage areas are present inside the camera, with the risk of electric shock. · If the camera interior is exposed due to dropping or otherwise damaging the camera, never touch the exposed portion. There is the risk of electric shock. · To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children. Seek medical attention immediately if a memory card is accidentally swallowed.

· Wrapping the strap around your neck is dangerous. Take care that small children do not hang the strap over their necks. · Do not look directly at the sun through the camera with the telephoto lens attached, as viewing the sun may damage your eyes. Viewing the sun directly with the telephoto lens may lead to a loss of eyesight. · Be sure to store batteries out of the reach of children. Seek medical assistance immediately if a battery is accidentally swallowed. · Always use the AC adapter exclusively developed for this product, with the specified power and voltage. Using an AC adapter not exclusive to this product, or using the exclusive AC adapter with an unspecified power or voltage can cause a fire, electric shock, or camera breakdown. · If any irregularities occur during use, such as smoke or a strange odor, stop use immediately, remove the batteries or the AC adapter, and contact your nearest PENTAX service center. Continued use could cause a fire or electric shock.

· During thunderstorms, unplug and discontinue use of the AC adapter. Continued use could cause equipment failure, a fire, or electric shock. 2 Caution · Do not short the batteries or dispose of the batteries in fire. Do not disassemble the batteries. The batteries could explode or catch fire.

· Of the batteries that can be used in this camera (AA Ni-MH batteries, AA lithium batteries, AA alkaline batteries and CR-V3), only the Ni-MH batteries can be recharged. Recharging other batteries can cause a fire or explosion. · Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not to burn yourself during removal. · Some portions of the camera heat up during use.

There is the risk of low temperature burns when holding such portions for long periods. · Do not place your finger over or cover the flash with clothing when discharging the flash. Fingers or clothing may be burned. · To reduce the risk of hazards, use only CSA/UL Certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent. PRECAUTIONS FOR BATTERY USAGE · Only use specified batteries with this camera. Use of other batteries can cause a fire or explosion. · Replace all the batteries at the same time. Do not mix battery brands, type or an old battery with a new one. It may cause explosion or a fire.

· The batteries should be inserted correctly with regard to polarity (+ and ) marked on the batteries and the camera. Not inserting batteries correctly may cause explosion or a fire. · Do not disassemble the batteries. Of the batteries that can be used in this camera, only the Ni-MH batteries can be recharged. Disassembling the batteries or attempting to charge non-rechargeable batteries could result in explosion or leakage. Care to be Taken During Handling · When traveling, take the Worldwide Service Network that is included in the package. This will be useful if you experience problems abroad. · When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during traveling). Pictures cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc.

· Do not clean the product with organic solvents such as thinner or alcohol benzene. · Do not subject the camera to high temperatures or high humidity. Do not leave the camera in a vehicle, as the temperature can get very high. · Do not store the camera with preservatives and chemicals. Storage in high temperatures and high humidity can cause molding.

Remove from case and store in a dry and well-ventilated location. · This camera is not waterproof, and should not be used in the rain or where the camera could get wet. · Do not subject the camera to strong vibrations, shocks, or pressure. Use a cushion to protect the camera from vibrations of motorcycles, automobiles, or ships.



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· The temperature range for camera use is 0°C to 40°C (32°F to 104°F).

· The LCD display may appear black under high temperatures, but will return to normal as temperatures normalize. · The LCD display may respond more slowly at low temperatures. This is due to liquid crystal properties, and is not a fault. · Periodic inspections are recommended every one to two years to maintain high performance. · Sudden temperature changes will cause condensation on the inside and outside of the camera. Place the camera in your bag or a plastic bag, removing the camera after temperature of the camera and surroundings are equalized. · Avoid contact with garbage, mud, sand, dust, water, toxic gases, or salts. These could cause a camera breakdown. Wipe dry any rain or water drops on the camera. · Refer to "Precautions When Using the SD Memory Card" (p.

30) regarding the SD Memory Card. · Use a lens brush to remove dust accumulated on the lens or viewfinder. Never use a spray blower for cleaning as it may damage the lens. · Please do not press forcefully on the LCD monitor. This could cause breakage or malfunction. Regarding Product Registration In order to better serve you, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or on the PENTAX website. Thank you for your cooperation. Refer to the PENTAX PHOTO Browser 3/PENTAX PHOTO Laboratory 3 Operating Manual (Windows users: p.9, Mac OS users: p.10) for more information.

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14 Names of Working Parts Camera 1 Before Using Your Camera Lens mount index Shutter release button Mirror Main switch Card cover Power pin AF coupler Self-Timer lamp/ Remote control receiver Lens unlock button Focus mode lever Lens information contacts e-dial L/Z button Four-way controller 3 button 4 button { button Battery cover i button M button Q button Tripod socket 15 Built-in flash Mode dial K button Hot shoe mc button LCD panel Strap lug Cable switch terminal USB/Video terminal DC input terminal Terminal cover LCD monitor Card access lamp Viewfinder Diopter adjustment lever Shake Reduction switch 1 Before Using Your Camera 16 LCD Monitor Indications The following indicators appear on the LCD monitor depending on the status of the camera. 1 Before Using Your Camera LCD monitor While Power is On or Operating Mode Dial Guides appear on the LCD monitor for 3 seconds when the camera is powered on or mode dial is turned. Select Off for [Guide display] in [H Set-up] to not show indicators. (p.105) 1 1 2345 678 AF. S 1600 9 Night Scene 07 / 01 / 2007 14 : 25 2 3\* 4 5\* 6\* 7\* 8\* 9 10\* 11 10 11 Flash mode (Active mode appears) (p.54) Drive mode (p.

108) AE metering (p.136) AF mode (p.127) AF point switching (p.128) White balance (p.118) Sensitivity (p.121) Shake Reduction mode (p.47) Shooting mode, Scene mode (p.110) World time warning display (p.171) Date and time (p.170) \* Indicators 3, 5, 6 and 7 only appear when a setting other than the default setting is selected.

8 only appears when the Shake Reduction function is Off. 10 only appears when World Time is On. 17 Capture Mode Press the M button in Capture mode to display the capture function settings on the LCD monitor for 15 seconds. Detailed Information Detailed Info Detailed Info 19 2 3 10 4 5 6 13 20 1 14 15 16 17 18 1 Before Using Your Camera AF. S ISO 800 sRGB 40mm 40 mm 07 / 01 / 2007 14 : 25 9 12 7 8 11 1 2 3 4 5\* 6\* 7 8 9 10 AF mode (p.

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117) Contrast (p.117) Lens focal length Scene mode (p.50) Shake Reduction mode (p.47) \* Indicators 5 and 6 do not appear at the same time. Only one appears at a time. Indicator 19 is only displayed in Scene mode. Press the four-way controller (p) to view explanation of set Shooting mode. Explanation of Set Shooting Mode Detailed Info Night Scene Used for night scenes. Use a tripod, etc. to prevent shaking 18 Playback Mode Every time you press the M button during playback, the camera switches screen displays in the following order: [Standard] Display, [Histogram] Display, [Detailed Information] Display and [No info.

Display] (image only). You can change the information initially displayed by pressing the Q button. (p.167) 1 Before Using Your Camera Detailed Information 100-0001 1 2 26 5 3 4 6 10 16 19 23 AF. S 1 / 2000 F2 .

8 + 1 . 5EV F2 ISO 800 sRGB 40mm 40 mm 07 / 01 / 2007 14 : 25 7 8 9 11 12 13 14 15 17 18 20 21 22 24 25 1 2 3 4 5 6 7 8 9 10 11 12 13\* Captured image Rotate icon (p.69) Image folder number and file number (p.176, 177) Protect icon (p.83) AF mode (p.

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50) \* Indicator 13 only appears for images in which the flash was discharged. Indicators 14 and 15 do not appear at the same time. Only one appears at a time. Indicator 26 is only displayed in Scene mode. Histogram Display 19 1 2 100-0046 3 1 Before Using Your Camera 4 1 2 3 4 Capture quality (Image file type) Image folder number and file number (p.

176, p.177) Protect icon (p.83) Histogram (p.167) · Areas where blooming overexposure occurred blink if [Bright Portion] warning is set to On in [Plybk dsply mthd] in the [Q Playback] menu. (p.

167) · Press the four-way controller (mn) in the histogram display to move the histogram display position up or down. 20 Viewfinder Indications 2 1 Before Using Your Camera 1 2 3 4 5 6 7 8 9 3 1 1 4 5 6 7 8 9 10 11 12 13 14 15 16 AF frame (p.39) Spot metering frame (p.136) AF point (p.128) Flash status (p.54) Appears when flash is available and blinks when flash is recommended but not set. Continuous mode (p.127) Appears when [AF Mode] in the [A Rec. Mode] is set to k (Continuous mode). Picture mode icon (p.

50) Icon for Picture mode in use appears. \ (Moving Object), q (Macro), = (Portrait), U (Normal mode in I), . (Night Scene Portrait), s (Landscape) Scene mode icon (p.50) Appears when taking pictures in Scene mode. Focus indicator (p.44) Appears when image is focused. Shutter speed (p.140)/Confirm Sensitivity Shutter speed when capturing or adjusting (underlined when shutter speed can be adjusted with e-dial). The sensitivity is displayed when [OK btn when shooting] is set to [Confirm Sensitivity] and the 4 button is pressed. (p.

126) 21 10 Aperture value (p.142) Aperture value when capturing or adjusting (underlined when aperture can be adjusted with e-dial). EV compensation (p.147) Appears when EV compensation is available or in use. Blinks slowly when compensating flash output.

Blinks quickly when compensating exposure and flash output. Adjusted value appears where number of recordable images is shown. Number of recordable images/EV compensation Show the number of recordable images with current quality and recorded pixel setting. Show the number of continuous shooting recordable images. (p.

106) EV compensation value appears when EV compensation is being adjusted. (p.139) The difference with the appropriate exposure value appears if exposure mode is a. (p.144) Shake Reduction display (p.47) Appears during Shake Reduction. Manual focus (p.132) Appears when focus mode is \ . ISO sensitivity warning (p.122) Appears when warning value is exceeded.

AE lock indicator (p.148) Appears during AE lock. · The red indication of the AF point used for autofocus lightens superimposed when the shutter release button is pressed halfway. (p.128) · When [OK btn when shooting] is set to [Confirm Sensitivity] in the [A Custom Setting] menu, press the 4 button to display the sensitivity in the viewfinder. (p.126) 11 1 Before Using Your Camera 12 13 14 15 16 22 LCD Panel Indications The following information appears in the LCD panel on top of the camera.



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These are easily obtainable when your usual batteries run out but they may not support AA alkaline batteries all the camera functions under certain conditions. We do not recommend their use except in emergencies and checking the camera's functionality. \* CR-V3 batteries have rechargeable and non-rechargeable types. This camera uses only non-rechargeable CR-V3 batteries. Nickel manganese batteries and rechargeable CR-V3 batteries may cause malfunctions due to their voltage characteristics. Therefore, use is not recommended.

27 Battery Level Indicator You can confirm remaining battery level by checking the { displayed on the LCD panel. { } ? ? lit lit lit blink : Battery is full. : Battery is running low. : Battery is almost empty.

: The camera turns off after displaying a message.

2 Getting Started Approximate Image Storage Capacity and Playback Time (new batteries) Batteries CR-V3 AA lithium batteries AA rechargeable batteries (NiMH 2500mAh) AA Alkaline Batteries (Temperature) (23°C) ( 0°C) (23°C) ( 0°C) (23°C) ( 0°C) (23°C)

Normal recording 730 300 660 520 430 350 Flash photography 50% use 100% use 630 480 210 180 570 450 360 310 300 260 250 200 Playback time 700 minutes 470 minutes 470 minutes 400 minutes 350 minutes 300 minutes 80 60 40 140 minutes Not Not Not ( 0°C) 70 minutes applicable applicable applicable

The picture storage capacity (normal recording and flash use 50%) is based on measuring conditions in accordance with CIPA standards and the others are based on PENTAX measuring conditions. Some deviation from the above figures may occur in actual use depending on shooting mode and shooting conditions. · Battery performance temporarily decreases as the temperature decreases. When using the camera in cold climates, have extra batteries on hand and keep them warm in your pocket.

Battery performance will return to normal when returned to room temperature. · AA alkaline batteries may not support all the camera functions. We do not recommend their use except in emergencies and checking the camera's functionality. · Have extra batteries ready when traveling overseas, taking pictures in cold climates, or when you will be taking a lot of pictures.

28 Using the AC Adapter (Optional) 4 1 2 Getting Started 2 3 We recommend using the AC adapter D-AC76 (optional) when using the LCD monitor for a long time or when connecting to your PC.

1 2 3 4 Make sure the camera is turned off before opening the terminal cover. Connect the DC terminal on the AC adapter to the DC input terminal on the camera. Connect the AC plug cord to the AC adapter. Plug the AC cord into the power outlet. · Make sure the camera is turned off before connecting or disconnecting the AC adapter. · Make sure connections are secure between the camera, AC adapter, AC plug cord terminal and the power outlet. SD Memory Card and data will be corrupted if disconnected while camera is recording or reading data. · Be sure to read the AC adapter D-AC76 Operating Manual when using the AC adapter. · The rechargeable batteries in your camera will not charge when connected to the AC adapter.



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When an Incorrect Language is Set Follow the procedure below to display the screen for setting the language, and go to Step 2 on p.33 to set the language again.

1 2 3 4 5 Turn the camera off and turn it on again. Press the 3 button. Press the four-way controller (p) twice. Press the four-way controller (n) five times. Press the four-way controller (p) once. The screen for setting the language will be displayed. 35 Setting the Date and Time Set the current date and time and the display style. 1 Press the four-way controller (p). The frame moves to [mm/dd/yy]. Date Adjust Date Style mm/dd/yy24h Date Time Cancel 01 / 01 / 2006 00 : 00 OK 2 Getting Started OK 2 3 Use the four-way controller (mn) to choose the date style.

Press the four-way controller (p). The frame moves to [24h]. Date Time Cancel Date Adjust Date Style mm/dd/yy24h 01 / 01 / 2006 00 : 00 OK OK 4 5 6 Use the four-way controller (mn) to select 24h (24-hour display) or 12h (12-hour display). Press the four-way controller (p). The frame returns to [Date Style]. Press the four-way controller (n). The frame moves to [Date]. 36 7 Press the four-way controller (p). The frame moves to the month. Date Adjust Date Style mm/dd/yy24h Date Time Cancel 01 / 01 / 2006 00 : 00 OK OK 2 Getting Started 8 Use the four-way controller (mn) to set the month.

Set the day and year in the same manner. Next, set the time. If you select [12h] in Step 4, the setting switches between am and pm depending on the time. 9 Press the 4 button. The camera is ready to take pictures.

If you set the date and time with the menu operations, the screen will return to the [H Set-up] menu. Press the 4 button again. You can cancel the setting operation and switch to Capture mode during initial settings by pressing the 3 button. In this case, the Initial Settings screen will appear again the next time you turn the camera on. · When you finish the settings and press the 4 button, the camera clock is reset to 00 seconds.

To set the exact time, press the 4 button when the time signal (on the TV, radio, etc.) reaches 00 seconds. · You can change the language and date and time settings with the menu operations. (p.170, p.174) Attaching the Lens All camera exposure modes are available when using DA, D FA, FA J or other lenses with Aperture s (Auto) position. Some functions are restricted when lenses are not set to Aperture s (Auto). Also see "Notes on [Using Aperture Ring]" (p.188). Other lenses and accessories will not be available with factory default settings.

To allow shutter release with lenses or accessories not listed above, set [Using aperture ring] in custom function settings. (p.107) Turn the camera off before attaching or removing the lens to prevent unexpected lens movement. 37 2 Getting Started 1 2 Check that the camera is off. Remove the body mount cover (1) and lens mount cover (2). Be sure to put the lens down with the lens mount side facing upward to protect from damage to the area around the lens mount after removal. 3 Align the red dots on the camera and the lens, and secure by turning the lens clockwise until it clicks. After attaching, check that the lens is secured. Also check that the red dots of the lens are on top and attachment portion does not move sideways. 38 4 Remove the front lens cap by pushing the indicated portions inward.

2 To detach the lens, hold down the lens unlock button (3) and turn the lens counterclockwise. Getting Started 3 · The body mount cover (1) is a cover to prevent scratches and block dust when shipped. Body Mount Cap K is sold separately and has a lock function. · We assume no responsibility nor liability for accidents, damages and malfunctions 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 damage the electrical system. Clean the contacts with a soft dry cloth. Adjusting the Viewfinder Diopter Adjust the viewfinder to suit your eyesight. If it is difficult to see the viewfinder image clearly, slide the diopter adjustment lever sideways. You can slide the diopter from 2.

5m-1 to +1.5m-1. 39 1 2 Look through the viewfinder and point the camera at a welllit scene. Slide the diopter adjustment lever left or right. Adjust the lever until the AF frame in the viewfinder is focused. Getting Started AF frame · The Fo Eyecup is attached to the viewfinder portion when camera leaves the factory. Diopter adjustment is available with the Fo Eyecup attached. However, adjustment is easier with the eyecup removed. To remove the Fo Eyecup, press in one side and pull it out toward you. To attach the Fo Eyecup, align it with the groove on the viewfinder eyepiece and push it into position.

· If it is difficult to see the viewfinder image clearly even if you set the diopter adjustment lever, use the diopter correction lens adapter M. However, the eyecup must be removed to use this adapter. (p.193) 40 Memo 3 Basic Operations This chapter explains basic operations for shooting by setting mode dial to Picture mode (Auto Picture or Portrait mode - Flash OFF mode) and Scene mode to ensure successful capturing. For information about advanced functions and settings for taking pictures, refer to chapter 4 and onward. Basic Shooting Operation .....

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.....88 42 Basic Shooting Operation Holding the Camera How you hold the camera is important when taking pictures. · Hold the camera firmly with both hands. · Press the shutter release button gently when taking a picture. 3 Basic Operations Horizontal position Vertical position · To reduce camera shake, support your body or the camera on a solid object such as a table, tree, or wall. · Although there are individual differences among photographers, the shutter speed for a handheld camera is generally  $1/(\text{focal length} \times 1.5)$ .

For example, it is  $1/75$  of a second for a focal length of 50 mm and  $1/150$  of a second for 100 mm. Use a tripod or the Shake Reduction function (p.47) when using a lower shutter speed. · When using a telephoto lens, a tripod that is heavier than the total weight of the camera and lens is recommended to avoid camera shake. · Do not use the Shake Reduction function when using the camera on a tripod. 43 Letting the Camera Choose the Optimal Settings How to set the camera so it will choose the optimum settings based on the subject lighting, distance and motion. 1 Set the mode dial to I.



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The camera will select the optimal capturing mode for the subject. 1 Selecting the Appropriate Capturing Mode for Scenes (p.50) 3 Basic Operations 2 Set the focus mode lever to =.

Autofocus mode is set. (p.124) 44 3 Look through the viewfinder to view the subject. A zoom lens can be used to change the size of the subject in the viewfinder. 1 Using a Zoom Lens (p.

53) 4 3 Basic Operations Position the subject inside the AF frame and press the shutter release button halfway. The autofocus system operates. The focus indicator ] appears in the viewfinder when the subject is in focus. The flash pops up automatically when necessary (manually lift the flash when Flash mode is not set to [Auto]). 1 Operating the shutter release button (p.

45) 1 Subjects that are Difficult to Focus on (p.46) 1 Using the Built-in Flash (p.54) 1 Selecting the Focusing Area (AF Point) (p.128) Focus indicator You can preview the image in the LCD monitor and check the composition, exposure, and focus before taking the picture. (p.152) 5 Press the shutter release button fully. The picture is taken. 6 45 Review captured images on the LCD monitor. Image displays for 1 second on the LCD monitor after capturing (Instant Review). You can delete the image during Instant Review by pressing the i button.

1 Setting the Display Time of the Instant Review (p.177) 1 Deleting Images (p.79) 1 Displaying Bright Portion (p.178) 1 Histogram Display (p.178) 3 Basic Operations Delete Operating the shutter release button The shutter release button has two positions. Not pressed Pressed halfway Pressed fully (first position) (second position) Pressing it down halfway (first position) turns on the viewfinder and LCD panel indicators and the autofocus system operates. Pressing it fully (second position) takes the picture. · Press the shutter release button gently when taking a picture to prevent camera shake. · Practice pressing the shutter release button halfway to learn where the first position is. · The viewfinder indicators stay on while shutter release button is pressed. The indications stay on for about 10 seconds (default setting) after the button is released. (p.20) 46 Subjects that are Difficult to Focus on The autofocus mechanism is not perfect. Focusing may be difficult when taking pictures under the following conditions ((a) to (f) below). These also apply to manual focusing using the focus indicator ] in the viewfinder.

If the subject cannot be focused automatically, set the focus mode lever to \ and use the manual focus mode to focus on the subject with the aid of the matte field in the viewfinder. (p.133) (a) Extremely low-contrast subjects such as a white wall in the focusing area. (b) Subjects which do not reflect much light within the focusing area. (c) Fast moving objects.

(d) Strongly reflected light or strong backlighting (bright background). (e) If vertical or horizontal line patterns appear within the focusing area. (f) Multiple subjects in the foreground and background within the focusing area. Subject may not be focused even when ] (focus indicator) is displayed when (f) above applies. 3 Basic Operations Taking Pictures Using the Shake Reduction Function You can easily take sharp pictures using the Shake Reduction function by simply turning on the Shake Reduction switch. 47 Shake Reduction The Shake Reduction function reduces camera shake that easily occurs when the shutter release button is pressed. This is useful for taking pictures in situations where camera shake is likely to occur. The Shake Reduction function gives you approximately 2 to 3.5 steps slower shutter speed without the risk of the camera shake. The Shake Reduction function is ideal when taking pictures in the following situations.

· When taking pictures in dimly lit locations, such as indoors, at night, on cloudy days and in the shade · When taking telephoto pictures Blurred picture Picture taken with the Shake Reduction function 3 Basic Operations · The Shake Reduction function does not compensate for blurring caused by movement of the subject. To take pictures of a moving subject, increase the shutter speed. · The Shake Reduction function may not fully reduce camera shake when taking close-up shots. In this case, it is recommended that the Shake Reduction function be turned off and the camera be used with a tripod. · The Shake Reduction function will not fully work when shooting with a slower shutter speed, for example when shooting a moving subject or night scenes. In this case, it is recommended that the Shake Reduction function be turned off and the camera be used with a tripod. Shake Reduction Function and Lens Focal Length The Shake Reduction function operates by acquiring the lens information such as focal length. If the camera uses a DA, D FA, FA J, FA or F lens, the lens information is automatically acquired when the Shake Reduction function is activated. [Focal Length] cannot be set from [Shake Reduction] menu in the [A Rec. Mode] (The menu items cannot be selected).

If another type of lens is used, the lens information cannot be automatically acquired even when the Shake Reduction function is activated. In this case, the [Shake Reduction] menu appears. Set [Focal Length] manually on the [Shake Reduction] menu. 1 Setting the Shake Reduction Function (p.49) 48 Turning On the Shake Reduction Function 1 Turn on the Shake Reduction switch.

When the shutter release button is pressed halfway, k appears in the viewfinder and the Shake Reduction function turns on. 3 Basic Operations · If a type of lens that does not support automatic acquisition of lens information such as focal length is used (p.47), the [Shake Reduction] menu appears. Set [Focal Length] manually on the [Shake Reduction] menu. 1 Setting the Shake Reduction Function (p.

49) · Turn the Shake Reduction switch off if you will not use the Shake Reduction function. · The Shake Reduction function will not fully work (for about 2 seconds) right after turning on the camera or restoring from Auto Power Off. Wait for the Shake Reduction function to become stable before gently pressing the shutter release button to take a picture. Press the shutter release button halfway. The camera is ready to take pictures when k appears in the viewfinder. · Be sure to turn off the Shake Reduction switch when using the camera with a tripod. · The Shake Reduction function automatically turns off in the following situations. When using self-timer, 2 sec. self-timer, remote control shooting, 3 sec. delay shooting, bulb shooting, or wireless mode with an external flash 49 Setting the Shake Reduction Function The [Shake Reduction] menu appears when the camera is turned on with the Shake Reduction switch on and a type of lens that does not support automatic acquisition of lens information such as focal length (p.

47) is mounted. Use the [Shake Reduction] menu to set the [Focal Length].



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· [Focal Length] cannot be set manually on the [Shake Reduction] menu when using a lens that supports automatic acquisition of lens information such as focal length because [Focal Length] is set automatically. · Set [FI with S lens used] on the [A Custom Setting] menu to [Available] to enable the focus indicator when using a screw mount lens. If this is set to [Unavailable], the camera assumes there is no lens attached, and the Shake Reduction function cannot be used. · When using a lens without the s position on the aperture or with the aperture set to a position other than the s position, set [Using aperture ring] on the [A Custom Setting] menu to [Permitted]. 3 Basic Operations 1 Use the four-way controller (op) to set [Focal Length]. Select from the following 34 focal length values. (The default setting is 35.) 8 40 135 550 10 43 150 600 12 50 180 700 15 18 20 24 28 30 35 55 65 70 77 85 100 120 200 250 300 350 400 450 500 800 Shake Reduction Focal Length 100 120 135 Cancel OK OK · If the focal length for your lens is not listed above, select the value closest to the actual focal length.

· When using a zoom lens, select the actual focal length at the zoom setting in the same manner. · Effect of Shake Reduction is influenced by the shooting distance as well as focal length information. The Shake Reduction function may not perform as expected when shooting at close ranges. 2 Press the 4 button. The camera is ready to take a picture.

To change the [Focal Length] setting, use [Shake Reduction] on the [A Rec. Mode] menu. (p.104) 50 Selecting the Appropriate Capturing Mode for Scenes The camera selects and sets the optimum mode when I (Auto Picture) on the mode dial is set to the dial indicator. 3 Basic Operations Dial indicator Select = (Portrait), s (Landscape), q (Macro), \ (Moving Object), .

(Night Scene Portrait), a (Flash OFF), H (Scene) with the mode dial if desired image is not captured in Auto Picture mode. The modes are as follows. Selects automatically from Portrait, Landscape, Macro, and Moving Object modes. I (Auto Picture) Lets you take pictures with standard settings (Normal mode) when there is no optimal shooting mode. Optimal for capturing portraits. = (Portrait) Deepens the focus range, emphasizes contour and s (Landscape) saturation of trees and the sky, and produces a bright image. Lets you take vibrant pictures of flowers and other q (Macro) small subjects at short distances. Lets you take sharp pictures of a quickly moving \ (Moving Object) subject, such as at a sporting event. · (Night Scene Portrait) Lets you capture people against a night view or dusk.

The built-in flash is deactivated. Other settings are the a (Flash OFF) same as the Normal mode in I. Lets you select from 8 shooting scenes depending on H (Scene) the shooting conditions. For · (Night Scene Portrait), the shutter speed becomes slower in dark places, even if the built-in flash is used. To prevent camera shake, either use the Shake Reduction function or mount the camera on a tripod. 51 Selecting the Shooting Scene By setting the H (Scene) icon to the dial indicator, you can choose from the following 8 shooting scenes. A (Night Scene) i (Surf & Snow) B (Text) K (Sunset) C (Kids) E (Pet) D (Candlelight) E (Museum) Used for night scenes. Use a tripod, etc. to prevent shaking.

For capturing images of dazzling backgrounds, such as snowy mountains. Lets you take clear pictures of text or writing. For capturing the sunrise or sunset in beautiful colors. For capturing moving kids. Reproduces healthy and bright skin tone.

For capturing moving pets. For capturing scenes in candlelight. For capturing images in places where a flash is prohibited. 3 Basic Operations The flash is deactivated in A (Night Scene), K (Sunset), D (Candlelight) and E (Museum) modes. To prevent camera shake, either use the Shake Reduction function or mount the camera on a tripod.

How to Select a Shooting Scene 1 2 Set the mode dial to H (Scene). Press the { button. The Fn menu appears. The icon for the currently selected shooting scene appears in the Fn menu screen in H (Scene) mode. Fn OK AUTO Fn Exit 52 3 Press the 4 button. The mode palette appears. Night Scene Used for night scenes. Use a tripod, etc. to prevent shaking. OK OK 4 3 Basic Operations Use the four-way controller (mnap) to choose a Scene mode.

If Pet mode is selected, you can turn the e-dial to choose a dog or a cat icon. The function is the same, regardless of which icon you choose. Pet For capturing moving pets OK OK 5 6 Press the 4 button. The screen returns to the Fn menu. Press the { button. The camera is ready to take a picture. Using a Zoom Lens Enlarges the subject (telephoto) or captures a wider area (wide angle) with a zoom lens. Adjust it to the desired size and take the picture. 53 1 Turn the zoom ring to the right or left. Turn the zoom ring clockwise for telephoto and counterclockwise for wide angle.

3 Basic Operations · The smaller the number of the displayed focal length, the wider the angle. The larger the number, the more magnified the image appears. · Power Zoom functions (Image Size Tracking, Zoom Clip, and Auto Zoom Effect) are not compatible with this camera. Wide Angle Telephoto 54 Using the Built-in Flash Use the following procedures to take a picture in low light or backlit conditions or when you want to manually use the built-in flash. The built-in flash is optimum at about 0.

7 m to 4 m from the subject. Exposure will not be properly controlled and vignetting may occur when used at a distance closer than 0.7 m (this distance varies slightly depending on the lens being used and set sensitivity (p.156)). Compatibility of built-in flash and lens 3 Basic Operations Vignetting (darkening of the corners of the image due to a lack of light) may occur depending on the lens being used and the capture conditions.

We recommend taking a test shot to confirm this. 1 DA, D FA, FA J, FA and F Lens Compatibility with the Built-in Flash (p.158) · When using the built-in flash, remove the lens hood before shooting. · The built-in flash fully discharges for lenses without a function to set aperture lens ring to s (Auto). Camera automatically determines surrounding light and built-in flash pops up. The flash pops up and discharges automatically when necessary, such as when using a shutter speed likely to cause camera shake or in backlit conditions. (The flash may pop up but may not discharge if the camera determines that the flash is not necessary.) Discharges flash manually. Flash discharges when popped up, does not discharge when retracted. g h i j Auto discharge Manual discharge Auto flash+Redeye Lights a red-eye reduction light before automatic flash.

reduct Manl flash+Redeye Discharges flash manually. Lights a red-eye reduction reduct light before manual flash.



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Manual discharge mode (Flash ON) is used regardless of flash mode settings if the K button is pressed to pop up the flash manually. Selecting Flash Mode 1 Press the { button. The Fn menu appears. Fn OK AUTO Fn Exit 2 55 Press the four-way controller (n). The Flash options screen appears. When the mode dial is set to e, b, c, a or p, g and i appear gray and cannot be selected. Flash Mode Auto discharge OK OK 3 4 5 Use the four-way controller (op) to choose a flash mode. 3 Press the 4 button.

The camera returns to the Fn menu screen. Basic Operations Press the { button. The camera is ready to take a picture. Using Auto Discharge g, i (Automatic Flash Popup) 1 Set the mode dial to H, I, =, q, or ..

The flash is deactivated when A (Night Scene), K (Sunset), D (Candlelight) or E (Museum) is selected in H (Scene) mode. 2 Press the shutter release button halfway. The built-in flash pops up if necessary and begins charging. When the flash is fully charged, b appears in the LCD panel and viewfinder. (p. 17, p.20, p.22) Switch between Auto discharge mode and Manual discharge mode (Flash ON) by pressing the K button while the built-in flash is popped up. If Auto discharge is set, E appears on the LCD panel. 56 3 4 Press the shutter release button fully. The picture is taken. Push down on the portion indicated in the illustration to retract the flash. 3 Basic Operations Using Manual Discharge (Flash ON) h, j 1 Press the K button. The built-in flash pops up and begins charging. Manual discharge mode (Flash ON) is used regardless of flash mode settings.

When the flash is fully charged, h appears in the LCD panel and viewfinder. (p.17, p.20, p.22) When Flash mode is set to g or i and you pop up the built-in flash, you can switch between Auto discharge mode and Manual discharge mode (Flash ON) by pressing the K button under the following conditions. · Shooting mode is set to I, =, s, q, \, or .. · H mode is set to i, B, C, or E. 2 3 Press the shutter release button fully. The flash discharges and the picture is taken. Push the flash down to retract. 57 Using Red-eye Reduction Flash "Red-eye" is the phenomenon where eyes look reddish in photographs taken in dark environments with a flash. This is caused by the reflection of the electronic flash in the retina of the eye. Red-eye occurs because pupils are dilated in dark environments. This phenomenon cannot be averted but the following measures can be used to combat it.

· Brighten the surroundings when shooting. · Set to wide angle and shoot from closer if a zoom lens is in use. · Use a flash that supports red-eye reduction. · Position the flash as far away from the camera as possible when using an external flash. The red-eye reduction function on this camera reduces red-eye by discharging the flash twice.

With the red-eye reduction function, the pre-flash is discharged just before the shutter is released. This reduces pupil dilation. The main flash is then discharged while the pupils are smaller, reducing the red-eye effect. To use the red-eye reduction function, set i (Red-eye reduction auto flash) in Picture mode or j (Red-eye reduction manual flash) in other modes for Flash mode. 3 Basic Operations Daylight-Sync Shooting In daylight conditions, the flash will eliminate shadows when a portrait picture is taken with a person's face cast in shadow. Use of the flash in this way is called Daylight-Sync Shooting. Flash is discharged manually when shooting with Daylight-Sync Shooting. Taking pictures (Auto Picture) 1 Confirm that the flash has popped up and the flash mode is set to h (Manual discharge). (p.56) 2 Confirm that the flash is fully charged.

3 Take the picture. The picture may be overexposed if the background is too bright. Without Daylight-Sync With Daylight-Sync 58 Other Shooting Modes Continuous Shooting Pictures can be taken continuously while the shutter release button is held down. 3 Basic Operations 1 Press the { button. The Fn menu appears. Fn OK AUTO Fn Exit 2 59 Press the four-way controller (m). The Drive Mode options screen appears. Drive Mode Single frame shooting 3 Basic Operations OK OK 3 Use the four-way controller (op) to select j. Drive Mode Continuous shooting OK OK 4 Press the 4 button. The camera returns to the Fn menu screen.

5 6 Press the { button. The camera is ready to take pictures. Press the shutter release button halfway. The autofocus system operates. The focus indicator ] appears in the viewfinder when the subject is in focus.

60 Set [No. cnt shng rcd im] in [Recordable Image No.] of the [A Custom Setting] menu. The number of continuously recordable images (buffer space) appears when shutter is pressed halfway. (p.

106) 7 Press the shutter release button fully. Pictures are taken continuously while the shutter release button is fully pressed. Take your finger off the shutter release button to stop. Continuous shooting settings are retained when the power is turned off. Display the Fn menu again and set to 9 (Single frame shooting) to stop Continuous shooting. · The focus is adjusted each time the shutter is released if the [AF Mode] in the [A Rec. Mode] is set to l (Single mode). (p.127) · Focusing is continuously active when the mode dial is set to e, b, c or a and [AF Mode] in the [A Rec. Mode] is set to k (Continuous mode), when Picture mode is set to \ (Moving Object) or H mode is set to C (Kids) or E (Pet).

Note that the shutter will release even if the focusing is not complete. · The shutter cannot be released until charging is complete when using the built-in flash. Use a custom function to enable shutter release before the builtin flash is ready. (p.155) 3 Basic Operations Self-Timer Shooting This camera has two types of self-timers: g and Z. g Z Shutter will be released after about 12 seconds. Use this mode to include the photographer in the picture. A mirror pops up immediately after shutter release button is pressed. Shutter is released after about 2 seconds. Use this mode to avoid camera shake when the shutter release button is pressed.

1 Mount the camera onto a tripod. 2 61 Press the { button. 3 Basic Operations The Fn menu appears. Fn OK AUTO Fn Exit 3 Press the four-way controller (m). The Drive Mode options screen appears. Drive Mode Single frame shooting OK OK 62 4 Use the four-way controller (op) to select g or Z. Drive Mode Self-Timer (12 secs) OK OK 3 Basic Operations 5 Press the 4 button. The camera returns to the Fn menu screen. 6 7 Press the { button. The camera is ready to take pictures. Confirm in the viewfinder that the subject you wish to shoot is in the display and press the shutter release button halfway. The focus indicator ] appears when the subject is in focus. 8 63 Press the shutter release button fully.



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