



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for KONICA MINOLTA DIMAGE Z5. You'll find the answers to all your questions on the KONICA MINOLTA DIMAGE Z5 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual KONICA MINOLTA DIMAGE Z5**  
**User guide KONICA MINOLTA DIMAGE Z5**  
**Operating instructions KONICA MINOLTA DIMAGE Z5**  
**Instructions for use KONICA MINOLTA DIMAGE Z5**  
**Instruction manual KONICA MINOLTA DIMAGE Z5**



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Printed in Germany

9979 2800 50/12984



KONICA MINOLTA

## **DiMAGE Z5**



**INSTRUCTION MANUAL**



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...130 9 Names of parts \* This camera is a sophisticated optical instrument. Care should be taken to keep these surfaces clean. Please read the care and storage instructions in the back of this manual (p. 122). Accessory shoe (p. 43) Exposure-mode dial (p. 21, 29, 36 - 40) Shutter-release button Speaker Microphone Strap eyelet (p.

12) Flash (p. 26) Diopter-adjustment dial (p. 17) Macro button (p. 35) Flash-mode button (p. 26) Viewfinder\* (p.

17) LCD monitor\* Zoom lever (p. 20) Controller USB / AV / DC terminal cover Main switch Mode switch Lens\* Self-timer lamp (p. 47) The battery-chamber door (p. 13) and tripod socket are located on the bottom of the body. Information button (p.

28, 32) Access lamp Quick View / Delete button (p. 30, 31) Menu button 10 Names of parts 11 GETTING UP AND RUNNING Attaching the strap and lens cap Always keep the strap around your neck in the event that the camera is accidentally dropped. An optional leather neck strap, NS-DG1000, is also available from your Konica Minolta dealer. Availability varies with region. Inserting batteries This digital camera uses four AA-size alkaline or Ni-MH

batteries. Do not use other types of AA batteries. The camera should be off when replacing batteries. 2 To open the battery-chamber door, slide the door toward the side of the camera (1) to release the safety catch. Lift the door to open (2). 2 1 Pass one of the small loops of the lens-cap strap through the eyelet on the lens cap (1).

Pass the other loop through the first loop and tighten (2). 1 Pass the end of the neck strap through the lens-cap strap and strap eyelet on the camera body (3). Insert the batteries as indicated on the diagram on the inside of the battery-chamber door. Confirm the positive and negative battery terminals are oriented correctly. 3 4 Thread the strap through the inside of the buckle as shown (4). Repeat with the other end of the strap. Close the battery-chamber door and slide it toward the body (3) to engage the safety catch. After installing the batteries, the set-time/date message may appear on the monitor. The clock and calendar are set in section 2 of the setup menu (p. 18).

3 Using your thumb and index finger, pinch the outside tabs of the lens cap to remove or attach. When the camera is not in use, always replace the lens cap. Camera notes After initially inserting a charged battery, do not remove it from the camera for twentyfour hours; the camera can be off during this period. The battery is used to charge an internal battery, which protects settings when the camera is turned off. 13 12 Getting up and running Battery condition indicator This camera is equipped with an automatic battery-condition indicator.

When the camera is on, the battery-condition indicator appears on the monitor. If the monitor is blank, the batteries may be exhausted or installed incorrectly. Full-battery indicator - the battery is fully charged. This indicator is displayed for three seconds on the monitor when the camera is turned on. Low-battery indicator - battery power is low.

The battery should be replaced as soon as possible. Low-battery warning - battery power is very low. The monitor indicator is red. The battery should be replaced as soon as possible. This warning automatically appears and remains on the monitor until the battery is changed. If power falls below this level, the battery-exhausted message will be displayed just before the camera shuts down. If the low-battery warning is displayed, UHS continuous advance, Progressive Capture drive mode, movie recording, and Anti-Shake system cannot be used. Connecting the optional AC adapter Always turn off the camera before changing between power supplies. The AC Adapter AC-11 allows the camera to be powered from an electrical household outlet. The AC Adapter is recommended when the camera is interfaced with a computer or during periods of heavy use.

Open the terminal cover (1) and insert the mini plug of the AC adapter into the DC terminal (2). Insert the AC adapter plug into an electrical outlet. 1 2 Auto power save To conserve battery power, the camera turns off displays and unnecessary functions if an operation is not made within a minute. To restore power, press the shutter-release button partway down, or press the main switch or controller. The length of the auto-power-save period can be changed in section 1 of the setup menu (p. 90). If an operation is not made within approximately 30 minutes, the camera turns off automatically.



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Press the main switch to turn on the camera. 14 Getting up and running 15 Changing the memory card An SD Memory Card or MultiMediaCard must be inserted for the camera to operate. If a card has not been inserted, a no-card warning is displayed on the monitor.

For more about memory cards see page 124. Turning on the camera and displays Press the main switch to turn the camera on. Pressing the switch again turns the camera off. When the camera is turned on, the Anti-shake indicator appears on the LCD monitor. The mode switch, next to the main switch, is used to change between the recording and playback modes as well as the selecting the between the monitor and viewfinder display.

Recording mode (Viewfinder display) - the camera can record images and the monitor is viewed through the viewfinder. The viewfinder has a built-in diopter. While looking through the viewfinder, turn the diopter-adjustment dial until the monitor image is sharp. Always turn off the camera and confirm the access lamp is not lit before removing a memory card; damage and data loss may result. 1 2 3 4 1.

Open the card-slot door on the bottom of the camera. 2. Insert the memory card all the way into the card slot and release; the card should catch in the slot. Insert the card so the face is toward the back of the camera. Always push the card in straight. Never force the card. If the card does not fit, check that it is oriented correctly. 3. To eject a memory card, press the card into the slot and release. The card can then be pulled out.

Take care when removing the card as it becomes hot with use. 4. Close the battery-chamber door. A memory card used in another camera may have to be formatted before being used. If the unable-to-use-card message appears, the card should be formatted with the camera. A memory card can be formatted in section 1 of the playback menu (p. 74). When a card is formatted, all the data on the card is permanently erased. If the card-error message appears, press the central button of the controller to close the window; check the Konica Minolta web site for the latest compatibility information: North America:

<http://www.konicaminolta.com>

us/ Europe: <http://www.konicaminoltasupport.com> Recording mode (Monitor display) - the camera can record images and the monitor is viewed directly.

Playback mode (Monitor display) - images can be played back and edited. The monitor is viewed directly.

Camera notes To use the viewfinder in the playback mode, press and hold the flash mode button (1) and then press and hold the information (i+) button (2) until the monitor switches to the viewfinder position. 1 2 16 Getting up and running 17 Setting the date and time After initially inserting a memory card and batteries, the camera's clock and calendar must be set. When images are recorded, the image data is saved with the date and time of recording. Setting the Menu language For customers in certain areas, the menu language may have to be set. Press the menu button (1) to open the menu; the appearance of the menu will depend on the position of the camera's controls.

Navigating the menu is simple. The up/down and left/right keys of the controller (2) move the cursor and change settings on the menu. The central button of the controller selects menu options and sets adjustments. 2 1 If the clock and calendar have not been set, a message is displayed for a few seconds each time the camera is turned on. This message is also displayed if the clock and calendar reset when the camera is stored without batteries for a long period. 1 Drive mode Image Quality Auto D Digital Use the left and right keys of the controller (1) to select "Yes." "No" cancels the operation. Set date/time? Yes No Press the center of the controller to open the date/time setup screen. Drive mode Image size Quality Auto DSP Anti-shake Single 2560x1920 Standard On Off Use the right key of the controller to highlight "setup" at the top of the menu. Press the central button of the controller to open the setup menu.

Date/Time set 2005 . 01 . 01 00 : 00 MM / DD / YYYY :move :sel. :enter Use the left and right keys to select the item to be changed. Use the up and down keys to adjust the item. LCDbrightness Power save Inst.Playback Lens acc. Language Language /JPN English Deutsch Français :sel. 1 min. Off None English Use the down key to highlight the language menu option.

Press the right key to highlight the current language. Press the central button to open the language screen. Press the central button to set the clock and calendar. The date/time setup screen can be opened in section 2 of the setup menu. Date/Time setup screen Español /CHN Italiano Svenska :enter Use the controller to select the language.

Press the central button to complete the operation. 19 18 Getting up and running BASIC RECORDING This section covers the basic operation of this camera. Thoroughly familiarize yourself with the operations in this section before moving on to the other sections in the manual. Recording images automatically Turn the exposure-mode dial to the auto-recording position (1); all camera operations are now fully automatic. The autofocus, exposure, and imaging systems will work together to bring beautiful results effortlessly.

While many of the camera's systems in this mode are automatic, some of the functions can be changed. The following list shows changes that can be made in auto-recording. Turn on the camera. Set the mode switch to a recording position. 1 Handling the camera While using the viewfinder or LCD monitor, grip the camera firmly with your right hand while supporting the body with your left. Keep your elbows at your side and your feet shoulder-width apart to hold the camera steadily. Take care not to cover the lens with your fingers or the strap. Functions which can be changed with buttons: · Flash mode · Macro mode Functions which can be changed with the auto-recording menu: · Drive mode · Image size · Quality · Automatic digital subject program selection · Anti-Shake system Using the zoom lens Zoom scale The zoom lever controls the lens (1). Sliding the lever to the right (T) will zoom in to the telephoto position of the lens. Sliding the lever to the left (W) will zoom out to the wide-angle position.

1 After zooming, the zoom scale is displayed briefly. If the digital zoom is active, the yellow section of the scale indicates the digital-zoom range. 20 Basic recording 21 Basic recording operation The example uses auto recording. Except for movie recording, the operation for other exposure modes is the same. Automatic Digital Subject Program Selection is only available in the auto recording mode. Place the subject anywhere within the focus frame. Make sure the subject is within the focus range of the lens (p. 24). For very close subjects, use the macro function (p.



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Automatic Digital Subject Program Selection Automatic Digital Program Selection chooses between program autoexposure and one of four digital subject programs. The digital subject programs optimize camera setting for various conditions and subjects. Automatic Digital Subject Program Selection is only available in auto recording and can be disabled in the auto-recording menu. For information on individual subject programs, see page 29. A row of gray indicators at the top on the monitor display will indicate Automatic Digital Subject Selection is active.

Place the subject in the focus frames; the procedure is the same as the basic recording operation described on page 22. a c d b Press the shutter-release button partway down to lock the focus and exposure. An AF sensor (a) is displayed to indicate the subject. Automatic Digital Subject Selection will choose the appropriate exposure mode, see the facing page. The focus signal (b) on the monitor will confirm focus lock.

If the focus signal is red, the camera was unable to locate the subject. Repeat the previous steps until the signal is white. The shutter speed (c) and aperture (d) appears and turns black to indicate the exposure is locked. Press the shutter-release button partway down; the AF system will locate the subject and the Automatic Digital Subject Selection function will choose a subject program. If no indicators are displayed, program autoexposure is active. Press the shutter-release button all the way down to take the picture. Hold the camera steadily when the sunset subject program is selected as exposures can be long. Press the shutter-release button all the way down to take the picture. The access lamp lights indicating image data is being written to the memory card. Never remove a memory card while data is being transferred.

Program autoexposure (the Digital Subject Program indicators disappear) Portrait Sports action Landscape Sunset Camera notes The recorded image can be previewed by continuing to hold down the shutter-release button after the image is captured. The instant-playback function can also be used (p. 93). 22 Basic recording 23 Focus lock Focus lock prevents the AF system from focusing. This can be used with off-center subjects or when a special focusing situation prevents the camera from focusing (p. 25). Place the subject within the focus frame. Press and hold the shutter-release button partway down. The focus signal indicates the focus is locked. The shutter speed and aperture value change from white to black indicating the exposure is locked.

When the focus is set, an AF sensor is displayed on the live image to indicate the point of focus. Focus signals The focus signal in the lower right corner of the LCD monitor indicates the focus status. The shutter can be released even if the camera cannot focus on the subject. Focus locked. Focus confirmed (P, A, S, and M continuous AF focus mode and sports action digital subject program).

Exposure continuously adjusts. Cannot focus. The subject is too close or a special situation is preventing the AF system from focusing. When using the sports action digital subject program, the camera continually focuses when the shutter-release button is pressed partway down; the focus frames turn red. Keep the subject within the red focus frames.

Focus lock cannot be used. Without lifting your finger from the shutter-release button, recompose the subject within the image area. Press the shutter-release button all the way down to take the picture. If the AF system cannot focus, focus lock can be used with object at the same distance as the main subject or the camera can be focused manually in the Digital Subject Program or program (P) exposure modes (p. 36). Special focusing situations The camera may not be able to focus in certain situations. If the autofocus system cannot focus on a subject, the focus signal will turn red. In this situation, focus-lock on an object at the same distance as the main subject and then recompose the image on the monitor to take the picture. Focus range All distances are measured from the front of the lens. See page 35 for the macro focus range.

Wide-angle position 0.6 m - inf. (2.0 ft. - inf.) Telephoto position 1.6 m - inf. (5.2 ft. - inf.)

) 24 Basic recording The subject in the focus Two subjects at different The subject is near a frame is low in contrast. distances overlap in the very bright object or focus frame. area. The subject is too dark. 25 Flash modes To use the built-in flash, simply raise it (1).

Lower the flash unit to prevent it from firing. Flash-mode indicator turns red while the flash is charging; wait until it becomes white before taking pictures. To change the flash mode, raise the flash and press the flash mode button (2) until the appropriate mode is indicated. Autoflash - the flash fires automatically in low-light and backlit conditions. Red-eye reduction - multiple flashes are used before the main flash burst to reduce red-eye; an effect caused by light reflected from the retina.

Use in low-light conditions when taking photographs of people or animals. The pre-flashes contract the pupils of the subject's eyes. Fill-flash - the flash fires with each exposure regardless of the amount of ambient light. Fill-flash can be used to reduce harsh shadows caused by strong direct light or sunshine. Slow sync. - flash and ambient light exposures are balanced; red-eye reduction is used. Use slow sync. when in dark locations to reveal background details. Ask your subject not to move after the flash burst; the shutter may still be open for the background exposure. Because exposures can be long, the use of a tripod is recommended.

Flash cancel - the flash is down and cannot fire. 1 Flash range - auto-recording mode The camera controls the flash output automatically. For well-exposed images, the subject must be within the flash range. Distance is given from the front of the lens. Because of the optical system, the flash range is not the same at the lens' wide-angle position as it is at the telephoto position. 2 Wide-angle position 0.2 - 3.6m (0.7 - 11.8 ft.)

) Telephoto position 1.2 - 2.2m (3.9 - 7.2 ft.)

) If the flash output was sufficient to illuminate the subject, the flash-output indicator briefly replaces the flash-mode indicator after the exposure. Flash-output indicator Autoflash Autoflash with red-eye reduction Fill-flash Slow sync. with red-eye reduction Flash cancel Fill-flash Camera-shake warning If the shutter speed falls below the point where the camera can be safely hand held, regardless if Anti-shake is active or not (p. 56), the camera-shake warning appears on the LCD monitor. Camera shake is slight blurring caused by subtle hand motion and is more pronounced at the telephoto position of the lens than at the wide-angle.

Although the warning appears, the shutter can still be released. If the warning appears, place the camera on a tripod, use the built-in flash, or zoom the lens towards the wide-angle position until the warning disappears.



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Camera-shake warning 26 Basic recording 27 i+ button Pressing the information (i) button changes the monitor display. The display cycles among the standard display, real-time histogram, and live image only. + Digital subject programs Digital subject programs optimize the camera's exposure, white-balance, and imageprocessing systems for specific conditions and subjects. Simply turn the exposure mode dial to select the appropriate subject program; the active subject program is displayed in the bottom left corner of the monitor. Standard display Real-time histogram Live image only Exposure-mode indicator Portrait - optimized to reproduce warm, soft skin tones and a slight defocusing of the background. Most portraits look best at a telephoto setting; the longer focal length does not exaggerate facial features and the shallower depth of field softens the background. Use the built-in flash with strong direct sunlight or backlight to reduce harsh shadows. Sports action - used to capture action by maximizing shutter speeds.

The AF system continuously focuses; see page 25. When using flash, the subject must be within the flash range (p. 27). A monopod is more flexible and compact than a tripod when shooting events. Landscape - optimized to produce sharp, colorful landscapes. Used with bright outdoor scenery. Sunset - optimized to reproduce rich, warm sunsets. When the sun is above the horizon, do not point the camera toward the sun for prolonged periods of time. The intensity of the sun could damage the CCD. Between exposures, turn off the camera or cover the lens.

The real-time histogram shows the approximate luminance distribution of the live image. This histogram cannot show the affect of flash illumination. The histogram of a recorded image may not show the same distribution as the real-time histogram. Information button Adjusting monitor brightness The monitor image can be made lighter or darker. The brightness level can be set individually for viewfinder and direct viewing.

Turn the mode switch to the appropriate position. Press and hold the information (i+) button to open the LCD brightness screen. Use the left/right keys of the controller to adjust the brightness; the monitor image changes accordingly. Press the center of the controller to set the brightness level or press the menu button to close the screen without applying any changes. Set LCD brightness Low High Night portrait - for deep, subtle night scenes.

The use of a tripod is recommended. When used with flash, the subject and background exposures are balanced. The flash can only be used with close subjects such as with a portrait of a person. When using the flash, ask your subjects not to move after the burst; the shutter will still be open for the background exposure. 29 :adjust 28 Basic recording :enter BASIC PLAYBACK Images can be viewed in the Quick View or playback modes. This section covers the basic operations in both modes. The playback mode has additional functions, see page 72. To view images from the playback mode, turn the mode switch to the playback position (1). The histogram shows the luminance distribution of the image from black (left) to white (right). The 256 vertical lines indicates the relative proportion of that light value in the image.

The histogram can be used to evaluate exposure, but displays no color information. Viewing and rotating images In Quick View or the playback mode, use the left/right keys of the controller to scroll through the images. To rotate a vertical image, press the down key to cycle through the three positions: 90° counterclockwise, 90° clockwise, and horizontal. Quick View / Delete button To return to the recording mode from Quick View, press the menu button or shutter-release button partway down. 1 2 To view images from the recording mode, press the Quick View / delete button (2). Single-frame playback and histogram display Mode indicator Image size (p. 54) Image quality (p. 54) Aperture value Shutter speed Time of capture Degree of exposure compensation (p. 41) White-balance setting (p. 60) Sensitivity setting (p.

64) Folder name Folder number - image file number Histogram Magnification (p. 33) Deleting single images The displayed image can be deleted. Once deleted, an image cannot be recovered. To delete the displayed image, press the QV/delete button. A confirmation screen will appear.

Date of capture Movie indicator (p. 72) Lock indicator (p. 79) DPOF indicator (p. 86) E-mail copy indicator (p. 82) Frame number/ total number of images Delete this frame? Use the left/right keys to highlight "Yes," "No" will cancel the operation.

Yes No To display the histogram display, press the up key of the controller. Press the down key to return to single-frame playback. 30 Basic playback Press the central button of the controller to delete the image. 31 i+ button The information (i+) button controls the display format. Each time the button is pressed, the display cycles through to the next format: full display, image only, index playback. Full display Enlarged playback In single-frame playback in Quick View or the playback mode, a still image can be enlarged for closer examination from 1.2X. The maximum magnification depends on image size ranging from 2X for 640x480 size images to 4X for 2560x1920 images. With the image to be magnified displayed, slide the zoom lever to the right (T) to activate the enlarged playback mode. The degree of magnification is displayed on the LCD monitor.

Slide the zoom lever to the right (T) to increase the image magnification. Slide the lever to the left (W) to decrease the magnification. With images larger than 640x480, move the zoom lever to the right (T) at maximum magnification to doubled the image size for closer examination. Information button In index playback, the four-way keys of the controller will move the yellow border. When the image is highlighted with the border, the date of recording, the lock and printing status, and the frame number of the image are displayed at the bottom of the screen. The highlighted image can be deleted using the QV/delete button (p. 31), or a movie clip can be played by pressing the central button of the controller. When the display button is pressed again, the highlighted image will be displayed in the single-frame playback mode. Use the four-way keys of the controller to scroll the image. When scrolling, the arrows in the display will disappear when the edge of the image has been reached.

Image only Index playback The locator in the top right corner of the monitor indicates the area of the image being displayed. The information (i+) button switches between showing the full display and the image only. To exit the enlarged playback mode, press the menu button. 32 Basic playback 33 ADVANCED RECORDING This section cover the advanced recording features of this camera. Read the basic recording section before moving on to this section.



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Macro Two macro modes are available: Super Macro and standard macro. Super Macro allows the camera to focus as close as 1cm (0.4 in.) from the front of the lens. When Super Macro is selected, the lens automatically zooms to a specific focallength position and cannot be changed.

Standard macro allows the zoom to be used. The minimum focus distance changes with focal length, see below. Press the macro button (1) to select the macro mode. The modes cycle among standard macro, Super Macro, and off. The following chart lists the Super Macro and standard macro ranges. All distances are measured from the front of the lens. Recording mode display 1 2 3 4 5 6 8 7 9 10 11 12 13 14 15 16 17 B A 26 25 24 23 22 21 20 19 18 A. Focus frame B. Spot metering area (p. 63) 1.

2. 3. 4. 5. 6. 7. 8. 9. 10. 11.

12. 13. 14. 15. 16.

17. 18. 19. 20. 21.

22. 23. 24. 25. 26. Wide-angle converter indicator (p. 93) Mode indicator Flash-mode indicator (p. 26) Flash-compensation display (p. 62) Sharpness display (p. 66) Contrast display (p.

65) White-balance indicator (p. 60) Camera-sensitivity (ISO) display (p. 64) Exposure-compensation display (p. 41) Exposure-mode indicator (p. 36 - 38) Metering-mode indicator (p. 63) Shutter-speed display Aperture display Macro-mode indicator (p. 35) Focus-mode indicator (p. 58) Focus signals (p. 25) Date-imprinting indicator (p. 96) Frame counter (p.

55) Drive-mode indicator (p. 46) Anti-shake indicator (p. 56) Camera-shake warning (p. 27) Battery-condition indicator (p. 14) Image-quality indicator (p. 54) Image-size display (p. 54) Digital-zoom display (p. 100) Color-mode indicator (p. 65) Super-macro indicator 1 Super Macro 1 - 100cm (0.4 in. - 3.3 ft.) Standard macro Wide-angle position: 0.1 - 1m (3.9 in. - 3.3 ft.) Telephoto position: 1.2 - 2.5m (3.

9 - 8.2 ft.) Konica Minolta History Innovation and creativity is the cornerstone of Minolta's success. The Electro-zoom X was an exercise in camera design and received a great deal of attention when it was unveiled at Photokina in 1966. The Electro-zoom X was an electronically controlled aperture-priority mechanical SLR with a built-in 30 - 120mm f/3.5 zoom lens giving twenty 12 X 17mm images on a roll of 16mm film. The shutter-release button and battery chamber are located in the grip. Only a few prototypes were built making it one of Minolta's rarest camera. 35 34 Advanced recording Program (P) Exposure mode The program exposure mode controls both the shutter speed and aperture to ensure correct exposures. This exposure mode allows photographers to shoot without worry about exposure settings.

The shutter speed and aperture values of the exposure are displayed on the monitor when the shutter-release button is pressed partway down. If shutter speed and aperture displays turn red, the scene is beyond the exposure control range of the camera. Shutter priority (S) Exposure mode The photographer selects the shutter speed and the camera sets the appropriate aperture to ensure correct exposure. When shutter priority is selected, the shutter speed on the monitor turns blue and a double arrow indicator appears next to it. The shutter speed can be set between 1/1000 and 4 seconds.

If the shutter speed is beyond the aperture range, the aperture display will turn red. The flash mode can be set to fill-flash, fill-flash with red-eye reduction, or slow sync. with red-eye reduction (p. 26). Aperture priority (A) Exposure mode The photographer selects the aperture and the camera sets the appropriate shutter speed to ensure the correct exposure.

When aperture priority is selected, the aperture value on the monitor turns blue and a double arrow indicator appears next to it. The flash mode can be set to fill-flash, fill-flash with red-eye reduction, or slow sync. with red-eye reduction (p. 26). Use the up/down keys of the controller (1) to set the shutter speed. Press the shutter-release button partway down to activate the exposure system; the corresponding aperture will be displayed on the monitor. 1 1 Use the up/down keys of the controller (1) to set the aperture. The aperture value can be changed in 1/3 stop increments. Press the shutter-release button partway down to activate the exposure system; the corresponding shutter speed will be displayed on the monitor. The camera-shake warning (p.

27) does not appear in S mode. If a slow shutter speed is selected, noise-reduction processing is applied to the image; a message may appear during processing. See page 39 for more on noise reduction. Shooting Tips Because the maximum aperture is not the same at the wide-angle and telephoto position, as the lens is zoomed, the aperture will automatically shift. If the aperture value is beyond the shutterspeed range, the shutter-speed display will turn red on the monitor. The shutter speed and aperture control more than the exposure. The shutter speed determines how sharp a moving subject is. The aperture controls the depth of field; the area in front of the camera that appears sharp. For more on exposure controls, see the Short Guide to Photography on page 70. 36 Advanced recording 37 Manual (M) Exposure mode Manual exposure mode allows individual selection of shutter speeds and apertures.

This mode overrides the exposure system giving the photographer total control over the final exposure. NOISE REDUCTION Noise can be apparent when using a slow shutter speed or high camera sensitivity (ISO), or using the camera in hot environment. In these cases, noise-reduction is applied to the image automatically. A message appears on the LCD monitor if the noise-reduction processing period is long. A picture cannot be taken while this message appears. When the camera is hot, allow the camera to cool before taking pictures. Processing... Use the up/down keys of the controller to change the shutter speed.

Use the left/right keys of the controller to change the aperture. The changes made to the exposure will be visible in the live image on the monitor. The monitor shutter-speed and aperture display will turn red when the shutter-release button is pressed partway down if the image is significantly underexposed or overexposed. If the monitor is black, increase the exposure until the image is visible; decrease the exposure if the monitor is white. In manual exposure mode, the auto camera-sensitivity setting will fix the ISO value at 100. The camera sensitivity can be changed in section 3 of the recording menu (p. 64). The flash mode can be set to fill-flash, fill-flash with red-eye reduction, or slow sync. with red-eye reduction (p. 26), but the live image will not reflect the flash exposure.

The camera-shake warning (p. 27) does not appear in M mode. If a slow shutter speed is selected, noise-reduction processing is applied to the image; a message may appear during processing. See page 39 for more on noise reduction. 38 Advanced recording 39 Movie recording This camera can record digital video with sound. Total recording time varies with the image size and frame rate, see page 68. The optical and digital zoom, exposure compensation, and the macro modes can be used.



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Other changes can be made with the movie recording menu (p. 44). Frame rate Image size Quality Before recording, the frame counter shows the maximum time in seconds that can be recorded on the next movie clip.

Exposure compensation The camera exposure can be adjusted to make the final picture lighter or darker by as much as  $\pm 2\text{Ev}$  in  $1/3$  increments. Exposure compensation can only be used with Digital Subject Programs, the P, A, and S exposure modes. With Digital Subject Programs, exposure compensation is reset when the camera is turned off. In P, A, and S exposure modes, exposure compensation remains in effect until reset. To adjust the exposure, press the left or right controller key; the exposure-compensation screen appears.

Use the left/right keys of the controller to adjust the exposure-compensation value. Changes to exposure are visible in the live image. Press the shutter-release button partway down or press the central button of the controller to set the adjustment. When adjusting the exposure, the amount of compensation is shown in EV (p. 53).

After the setting is made, the shutter-speed and aperture displays indicate the actual exposure. Because the exposure can be adjusted in fine steps, the shutter speed or aperture value displayed may not change. When set to any value other than zero, the exposure-compensation indicator remains on the monitor as a warning. Recording time Frame the picture as described in the basic recording operation section (p. 22). Press the shutter-release button partway down to set the focus and exposure. Press the shutter-release button all the way down and release to start recording. Camera notes The camera continues to focus during recording. The camera will continue to record until the recording time is used or the shutter-release button is pressed again. Exposure compensation is used when the camera's exposure meter is deceived by high-key or low-key scenes.

In the example, the dark water caused the camera to overexpose the image making it too bright and washed-out. By compensating the exposure, detail is brought out in the leaves, and the stones and water appear richer. Recording indicator Remaining time If the optical zoom is used while recording, the sound of the zoom sound may be audible during playback. 40 Advanced recording 2.0Ev 1.0Ev Camera exposure 41 Focus area selection Individual focus areas can be selected when recording still images. With auto recording and Digital Subject Programs, focus area selection is reset when the camera is turned off. In P, A, S, and M exposure modes, the selected focus area remains active until reset. Attaching an accessory flash To extend the versatility of the camera, an accessory flash unit (sold separately) can be used. Always remove the accessory flash when the camera is not in use, and replace the accessory-shoe cap to protect the contacts.

Press and hold the central button of the controller until the five spot focus areas are displayed. Slide the accessory-shoe cap off as shown. Mount the flash unit on the accessory shoe by sliding it forward until it stops. Use the left/right keys of the controller to highlight the desired autofocus area; the active area is blue. System Accessories The following Konica Minolta flash units are compatible with this camera: Program Flash 2500(D) Program Flash 3600HS(D) Program Flash 5600HS(D) Press the shutter-release button partway down or press the central button of the controller to select the area; the other four areas disappear.

Only when a focus area has been selected, can the controller be used for other camera operations. Take the picture as described in the basic recording section; press the shutter-release button partway down to lock focus and exposure. Press the shutter-release button all the way down to take the picture. Once a focus area is selected, it will remain active even after the picture has been taken. Press and hold the central button of the controller to return to the standard focus frames.

Flash Notes When using an accessory flash, the camera uses pre-flash TTL metering to determine exposure. The flash modes available when using an optional flash unit varies with the exposure mode. Autoflash can only be used with auto, program (P), and Digital Subject Programs. Fill-flash and slow sync. can be used with all exposure modes except movie. Red-eye reduction cannot be used. Because of the large distance between the flash tube and optical axis, red eye is rarely caused by accessory flash units. Off-camera flash cables and accessories are not compatible with this camera. The Closeup Diffuser CD-1000 can be used, but AF speed is reduced. 42 Advanced recording 43 Navigating the recording menus The recording menu displayed varies with the position of the exposure-mode dial.

There are four menus depending on if auto recording, movie recording, Digital Subject Programs, or the P, A, S, and M exposure modes are selected. Pressing the menu button (1) turns the menu on and off. The four-way keys of the controller (2) move the cursor in the menu. Pressing the central button of the controller enters a setting. Drive mode Image size Quality Auto DSP Anti-shake Single 2560x1920 Standard On Disp. + Exp. Drive mode Image size Quality Focus mode Anti-shake Single 2560x1920 Standard Autofocus Disp. + Exp. Focus mode Color mode Quality Frame rate White balance Movie mode Anti-shake Cont. AF NaturalColor 640x480 STD.

15 fps Auto STD. movie Disp. + Exp. Activate the menu with the menu button. Auto-recording menu Digital Subject Program menu On the movie recording and P, A, S, and M menu, use the left/right keys of the controller to highlight the appropriate menu tab; the menu changes as the tabs are highlighted.

Movie menu PASM Use the up/down keys to scroll through the menu options. Highlight the option whose setting needs to be changed. With the menu option highlighted, press the right controller key; the settings are displayed with the current setting highlighted. To return to the menu options, press the left key.

Drive mode Image size Quality White balance Anti-shake Single 2560x1920 Standard Auto Disp.

+ Exp. Focus mode Full-time AF Flash mode Flash comp. Metering mode Single AF Off AutoFlash 0 MultiSegment Sensitivity Color mode Sharpness Contrast Key func. Auto NaturalColor Normal Normal Flash mode Use the up/down keys to highlight the new setting. P, A, S, and M exposure-mode menu

Press the central button of the controller to select the highlighted setting; some options open a selection screen. 2 1 Once a setting has been selected, the cursor will return to the menu options and the new setting will be displayed. To return to the recording mode, press the menu button. 44 Advanced recording

Index to menu functions Anti-Shake, 56 Auto DSP, 56 Color mode, 65 Contrast, 65 Drive mode, 46 Flash compensation, 62 Flash mode, 62, 26 Focus mode, 58 Frame rate, 68 Full-time AF, 62 Image size, 54 Key function, 67 Metering mode, 63 Movie mode, 69 Quality, 54 Quality (movie), 68 Sensitivity, 64

Sharpness, 66 White balance, 60 45 Drive modes The drive modes control the rate and method images are captured.



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The drive mode is set on all menus except the movie menu. With auto recording and Digital Subject Programs, the drive mode is reset to single-frame advance when the camera is turned off.

In P, A, S, and M exposure modes, the drive mode remains in effect until changed. Refer to the following sections for descriptions of the drive modes. Self-timer Used for self-portraits, the self-timer will delay the release of the shutter for approximately ten seconds after the shutter-release button is pressed. The self-timer is set on section 1 of the recording menus (p. 44). 1 With the camera on a tripod, compose the picture so the subject is within the focus frames. Press the shutter-release button partway down to lock the exposure and focus (1). Press the shutter-release button all the way down to begin the countdown (2). Because focus and exposure are determined when the shutter-release button is pressed, do not stand in front of the camera when taking a self-timer image.

Always confirm the focus with the focus signals before beginning the countdown (p.

25). 2 Single-frame advance - to take a single image each time the shutter-release button is pressed (p. 22). Self-timer - to delay the release of the shutter. Used for self-portraits.

Continuous advance - to continuously record images when the shutter-release button is pressed and held. UHS continuous advance - to take up to twenty 1024x768 size images at approximately 10fps when the shutter-release button is pressed and held. Progressive Capture - to continuously record 1024x768 size image at approximately 10fps. Releasing the shutter button saves the last twenty images Bracketing - to take a series of three images with differing exposures. 3 The self-timer is counted down on the monitor.

During the countdown, the self-timer lamp on the front of the camera (3) will start to blink and is accompanied by an audio signal. A few seconds before the exposure, the self-timer lamp will blink rapidly. The lamp will glow steadily just before the shutter fires. To stop the countdown, slide the zoom lever to the left or right. The self-timer drive mode is reset to single-frame advance after the exposure. The audio signal can be turned off in section 3 of the setup menu (p. 99). The self-timer delay can be changed to two seconds in section 4 of the setup menu (p. 101). Shooting tips The self-timer can be used to minimize camera shake with long exposures.

When using the camera on a tripod, photographs of static subjects (landscapes, still-lives, or close-up photographs) can be made with the self-timer. Because no contact is made with the camera during exposure, there is no risk of camera shake caused by the operator. Two seconds self-timer is suitable for this purpose. 46 Advanced recording 47 Using the Continuous-advance modes The continuous-advance drive modes allow a series of images to be captured while holding down the shutter-release button. These drive modes are set in section 1 of the recording menus. Continuous-advance notes CONTINUOUS ADVANCE

Drive mode Image size Quality White balance Anti-shake Single Self-timer Continuous Progressive Bracketing The continuous-advance drive mode can capture images at a rate of approximately 2.2 fps. When single-shot AF is used, focus and exposure is locked with the first frame. Focus and exposure is set for each image when the continuous-AF focus mode is used, but the rate of capture is reduced. When the red low-battery warning appears, or the flash or noise reduction (p.

39) is used, the rate of capture is also reduced. The following chart lists the approximate maximum number of images that can be captured: Immediately after selecting the continuous option on the menu, a selection screen is displayed to select between standard and UHS continuous advance. Use the left/right keys of the controller to select the continuous advance mode. Press the central button of the controller to set the drive mode. Pressing the menu button cancels the operation without changing the drive mode.

Quality Size :select Compose the picture as described in the basic recording operation section (p. 22). Press the shutter-release button partway down (1) to lock the focus and exposure for the series. Press and hold the shutter-release button all the way down (2) to begin taking pictures. When the shutter-release button is pressed and held, the camera will begin recording images until the maximum number has been taken or the shutter button is released.

The maximum number of frames and the rate of capture depends on the continuous-advance drive mode selected. See the notes section on the following page.

:enter Fine Standard Economy 2560x1920 3 6 8 2048x1536 4 9 18 1600x1200 6 17 38 640x480 38 122 143 1 2 UHS CONTINUOUS ADVANCE UHS continuous-advance captures up to twenty 1024x768 images at approximately 10fps regardless of the image quality setting. Focus and exposure is locked with the first frame. The flash and the digital zoom cannot be used. When the red low-battery warning is displayed or when the frame counter shows three or fewer frames remaining, this drive mode cannot be used. Shutter speeds must be 1/25 second or faster. A high camera sensitivity (ISO) is used allowing faster shutter speed to be set; sensitivity cannot be set manually. Very bright light sources in the scene may cause streaks to appear on the image. Black areas caused by data loss may also be apparent.

48 Advanced recording 49 Using the progressive-capture mode The Progressive-Capture drive mode continuously records images while holding down the shutter-release button. When the shutter button is released, the images stored in the camera's buffer memory are saved. These drive mode is set in section 1 of the recording menus. When a series is captured, a thumbnail of each image is shown in an index display while being saved. Progressive capture can only be used when there is enough space available on the memory card to record an entire series of images. The frame counter must show 21 frames or more to use progressive capture. Compose the picture as described in the basic recording operation section (p. 22). Press the shutter-release button partway down (1) to lock the focus and exposure for the series. Press and hold the shutter-release button all the way down (2) to begin taking pictures; focus and exposure are locked with the first frame.

When the shutter-release button is pressed and held, the camera will begin recording. Release the shutter (3) to save the images in the camera memory: the last twenty images are saved. The rate of capture is 10fps regardless of the image-quality setting. Image size is fixed at 1024x768. 1 2 3 The flash and the digital zoom cannot be used.

Shutter speeds must be 1/25 second or faster. A high camera sensitivity (ISO) is used allowing faster shutter speed to be set; sensitivity cannot be set manually. Very bright light sources in the scene may cause streaks to appear on the image. Black areas caused by data loss may also be apparent.



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The advantage of Progressive Capture over the continuous-advance drive mode is that it allows you to record events without the need to predict when the event will start.

Simply hold the shutter-release button down to start saving images, and when the action happens, release the shutter button to save the recorded series. The flash cannot be used. When the red low-battery warning is displayed, these drive modes cannot be used. 50 Advanced recording 51 Bracketing This mode makes a three-image bracket of a scene. Bracketing is a method of taking a series of images of a static subject in which each image has a slight variation in exposure. The bracketing mode is set in section 1 of the recording menus. Immediately after selecting the bracketing option on the menu, a selection screen is displayed to select the bracketing increment. Press the left/right keys of the controller to select the bracketing increment. Press the central button of the controller to set the value. To change the increment, select the bracketing drive mode again with the menu.

Drive mode Image size Quality White balance Anti-shake Single Self-timer Continuous Progressive Bracketing Number of frames in bracketing series Frame counter The remaining number of frames in the bracket series is displayed on the monitor next to the bracketing indicator. If the memory is filled or the shutter button is released before the series has completed, the camera will reset and the entire bracket must be made again. The flash cannot be used with the bracketing drive mode. The order of the bracket series is normal exposure, underexposure, and overexposure. The exposure bracket can be made in 0.3 or 0.5 Ev increments. The larger the number, the greater the difference in exposure between the images in the bracketed series. Normal :select Compose the picture as described in the basic recording operation section (p. 22).

Press the shutter-release button partway down (1) to lock the focus exposure for the series. Press and hold the shutter-release button all the way down (2) to make the bracket series; three consecutive images will be captured. Focus is locked with the first frame. :enter 0.3 Ev bracket Under Over 0.

5 Ev bracket 1 2 When using exposure compensation (p. 41), the bracketing series will be made in relation to the compensated exposure. Under extreme conditions, one of the bracketed exposures may be inaccurate because it is outside the exposure control range of the camera. What is an Ev? Ev stands for exposure value. A change of one Ev adjusts the exposure calculated by the camera by a factor of two. +2.0 Ev +1.0 Ev ±0.0 Ev 1.0 Ev 2.0 Ev 4X as much light 2X as much light Calculated exposure 1/2 as much light 1/4 as much light 53 52 Advanced recording Image size and image quality Changing image size affects the number of pixels in each image. The greater the image size, the larger the file size. Choose image size based on the final use of the image smaller images will be more suitable for web sites whereas larger sizes will produce higher quality prints. LCD monitor 2560 2048 1600 640 Number of pixels (hor. X vert.

) 2560 X 1920 2048 X 1536 1600 X 1200 640 X 480 Approximate file sizes Size Quality 2560 X 1920 2590KB 1360KB 750KB 4 9 18 2048 X 1536 1710KB 920KB 530KB 7 15 26 1600 X 1200 1100KB 680KB 380KB 12 22 37 640 X 480 210KB 140KB 100KB 67 101 142 Fine Standard Economy Fine Standard Economy Approximate number of images that can be stored on a 16MB memory card FINE STD. ECON. Fine - high-quality JPEG image. Standard - the default setting. (JPEG) Economy - the smallest file sizes. (JPEG) Camera Notes Image quality controls the rate of compression, but has no effect on the number of pixels in the image. The higher the image quality, the lower the rate of compression and the larger the file sizes. If economical use of the memory card is important, use the economy mode. Standard image quality is sufficient for normal usage. The fine mode will produce the highest quality image and the largest image files.

Image size and quality must be set before the picture is taken. Changes are displayed on the LCD monitor. Changes made on one menu affects all exposure modes except movie. Image size and quality must be reset manually. See navigating the recording mode menu section on page 44.

If image size or quality are changed, the frame counter will display the approximate number of images that can be recorded at that setting on the installed memory card. One memory card can contain images with differing sizes and qualities. The number of images that can be stored on a memory card is determined by the size of the card and the file size of the images. The actual file size is determined by the scene; some subjects can be compressed further than others. See the chart on the following page.

The frame counter indicates the approximate number of images that can be stored on the memory card at the camera's image quality and size settings. If the settings are changed, the frame counter adjusts accordingly. Because the counter uses approximate file sizes, the actual image taken may not change the counter or may decrease it by more than one. When the frame counter displays zero, it indicates no more images at the image size and quality settings can be captured. Changing those settings may allow more images to be saved to the card. 54 Advanced recording 55 Auto DSP Automatic Digital Subject Program

Selection can be temporarily disabled in the auto-recording menu. When disabled, the program exposure mode is active. If the camera is turned off, Automatic Digital Subject Program Selection is activated. Three options are available for the Anti-Shake system in section 1 of the recording menus. Drive mode Image size Quality Auto DSP Anti-shake Single 2560x1920 Standard On Disp.

+ Exp. Display + Exp. - when the shutter-release button is pressed partway down, the anti-Shake function will activate. The affect of the Anti-Shake system can be seen in the live image. Exposure - Anti-Shake is only applied during the exposure and is not apparent in the live image. When the shutter-release button is pressed partway down, wait a moment before taking the picture for the Anti-Shake system to stabilize the image. Off - Anti-Shake will not activate.

The Anti-Shake system is less effective at short subject distances or when using the macro function (p. 35). The use of a tripod is recommended. Anti-Shake is not effective with a tripod mounted camera; turn off the Anti-Shake function to conserve power. A thermometer indicator replaces the Anti-Shake indicator when the camera is overheating because of high operating or ambient temperatures. When taking still images, the Anti-Shake system is used only for the exposure. When taking movies, Anti-Shake is canceled. A lower camera sensitivity (ISO) than selected may be used.

Allow the camera to cool before using AntiShake. If Anti-Shake cannot compensate the camera motion, the Anti-Shake indicator turns red.



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