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You can read the recommendations in the user guide, the technical guide or the installation guide for KONICA MINOLTA DYNAX 5D. You'll find the answers to all your questions on the KONICA MINOLTA DYNAX 5D in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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9979 2186 50/12984



KONICA MINOLTA

DYNAX 5D



INSTRUCTION MANUAL



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Manual abstract:

18) and the camera strap (p. 19). Adjust the viewfinder diopter if necessary (p. @@@@Check the packing list before using this product. If any items are missing, immediately contact your camera dealer. Dynax digital camera Lithium-ion battery NP-400 Lithium-ion battery charger BC-400 Wide Strap WS-5 Video Cable VC-500 USB Cable USB-3 Digital Camera Software CD-ROM Camera instruction manual Warranty card Charge the battery (p. 20) and insert it into the camera (p. 21). This product is designed to work with accessories manufactured and distributed by Konica Minolta. Using accessories or equipment not endorsed by Konica Minolta may result in unsatisfactory performance or damage to the product and its accessories.

Insert a memory card into the camera (p. 24). Turn on the camera and set the date and time (p 26). Only use the battery specified in this manual that are manufactured and distributed by Konica Minolta. @@@@To use the flash, see page 31.

@@To connect the camera to a computer to download images, see page 115. CAUTION: when using a Windows 98 or 98SE operating system, the supplied driver software must be installed, see page 116. To install Kodak EasyShare software, see page 132. To install DiMAGE Master Lite, see page 134. For basic problems, see the troubleshooting section on page 136.

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The official name of Windows is Microsoft Windows Operating System. Microdrive is a trademark of Hitachi Global Storage Technologies. Adobe is a registered trademark of Adobe Systems Incorporated. EasyShare is a registered trademark or trademark of the Eastman Kodak Company in the United States and other countries.

All other brand and product names are trademarks or registered trademarks of their respective owners. 2 Quick start check list Before you begin 3 FOR PROPER AND SAFE USE NP-400 LITHIUM-ION BATTERIES This camera operates on a powerful lithium-ion battery. Misuse or abuse of the lithium-ion battery can cause damage or injury through fire, electric shock, or chemical leakage. Read and understand all warnings before using the battery. GENERAL PRODUCT WARNINGS AND CAUTIONS Read and understand the following warnings and cautions for safe use of the digital camera and its accessories.

WARNING · Only use the battery specified in this manual. · Only use the specified charger or AC adapter within the voltage range indicated on the unit. An inappropriate adapter or current may cause damage or injury through fire or electric shock. · Only use the charger power cord in the sales region for which it was designed. An inappropriate current may cause damage or injury through fire or electric shock.

· Do not disassemble the camera or charger. Electric shock may cause injury if a high voltage circuit inside the product is touched. · Immediately remove the battery or unplug the AC adapter and discontinue use if the camera is dropped or subjected to an impact in which the interior, especially the flash unit, is exposed. The flash has a high voltage circuit which may cause an electric shock resulting in injury. The continued use of a damaged product or part may cause injuries or fire.

· Keep the battery, memory card, or small parts that could be swallowed away from infants. Contact a doctor immediately if an object is swallowed. · Store this product out of reach of children. Be careful when around children not to harm them with the product or parts. · Do not fire the flash directly into the eyes. It may damage eyesight. · Do not fire the flash at vehicle operators. It may cause a distraction or temporary blindness which may lead to an accident. · Do not use the monitor while operating a vehicle or walking. It may result in injury or an accident. DANGER · Do not short, disassemble, damage, or modify the battery. · Do not expose the battery to fire or high temperatures over 60°C (140°F). · Do not expose the battery to water, or moisture. Water can corrode or damage the internal battery safety devices and cause the battery to overheat, ignite, rupture, or leak. · Do not drop or subject the battery to strong impacts.

Impacts can damage the internal battery safety devices and cause the battery to overheat, ignite, rupture, or leak. · Do not store the battery near or in metallic products. · Do not use the battery with any other products. · Only use the specified charger. An inappropriate charger may cause damage or injury through fire or electric shock. · Do not use a leaking battery. If fluid from the battery enters your eye, immediately rinse the eye with plenty of fresh water and contact a doctor. If fluid from the battery makes contact with your skin or clothing, wash the area thoroughly with water. · Only use or charge the battery in an environment with ambient temperatures between 0° and 40°C (32° and 104°F). Only store the battery in an environment with ambient temperatures between -20° and 30°C (4° and 86°F) and a humidity of 45% to 85% RH.

WARNING · Tape over the lithium-ion battery contacts to avoid short-circuiting during disposal; always follow local regulations for battery disposal. · If charging is not completed after the specified period elapses, unplug the charger and discontinue charging immediately. 4 For proper and safe use 5 · Do not look at the sun or strong light sources through the viewfinder or lens. It may damage your eyesight or cause blindness. · Do not use these products in a humid environment, or operate them with wet hands.

If liquid enters these products, immediately remove the battery or unplug the product, and discontinue use. The continued use of a product exposed to liquids may cause damage or injury through fire or electric shock. · Do not use these products near inflammable gases or liquids such as gasoline, benzine, or paint thinner. Do not use inflammable products such as alcohol, benzine, or paint thinner to clean these products. The use of inflammable cleaners and solvents may cause an explosion or fire.

· When unplugging the AC adapter or charger, do not pull on the power cord. Hold the plug when removing it from an outlet. · Do not damage, twist, modify, heat, or place heavy objects on the AC adapter or charger cord. A damaged cord may cause damage or injury through fire or electric shock. · If these products emits a strange odor, heat, or smoke, discontinue use. Immediately remove the battery taking care not to burn yourself as the battery may become hot with use. The continued use of a damaged product or part may cause injuries or fire. · Take the product to a Konica Minolta service facility when repairs are required.



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· Handling the cord on this product may expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

CAUTION · Do not point a photographic lens directly at the sun. If sunlight is focused on an inflammable surface, a fire may result. Replace the lens cap when the lens is not in use. · Do not use or store these products in a hot or humid environment such as the glove compartment or trunk of a car. It may damage the camera, charger, and battery which may result in burns or injuries caused by heat, fire, explosion, or leaking battery fluid. · If the battery is leaking, discontinue use of the product. · The camera, charger, and battery temperature rises with extended periods of use. Care should be taken to avoid burns. · Burns may result if the memory card or battery is removed immediately after extended periods of use. Turn the camera off and wait for it to cool. · Do not fire the flash while it is in contact with people or objects. The flash unit discharges a large amount of energy which may cause burns. · Do not apply pressure to the LCD monitor. A damaged monitor may cause injury, and the liquid from the monitor may cause inflammation. If liquid from the monitor makes contact with skin, wash the area with fresh water.

If liquid from the monitor comes in contact with the eyes, immediately rinse the eyes with plenty of water and contact a doctor. · When using the AC adapter and charger, insert the plug securely into the electrical outlet. · Do not use electronic transformers or travel adapters with the charger. The use of these devices may cause a fire or damage the product. · Do not use if the AC adapter or charger cord is damaged.

· Do not cover the AC adapter or charger. A fire may result. · Do not obstruct access to the AC adapter or charger; this can hinder the unplugging of the units in emergencies. · Unplug the AC adapter or charger when cleaning or not in use. 6 For proper and safe use 7 TABLE OF CONTENTS Quick start check list

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6. Flash-compensation indicator (p. 60) Flash signal (p. 31) High-speed sync. indicator (p. 112) Wireless/Remote flash indicator (p. 76) AE lock indicator (p. 46) Focus signal (p. 29) 7. 8.

9. 10. 11. 12. Shutter-speed display Aperture display Ev scale Frames-remaining counter Camera-shake warning (p. 30) Anti-Shake scale (p. 32) Spot-metering area (p. 59) The spot AF area and local focus areas are illuminated briefly to indicate the point of focus when the focus is locked. Camera Notes The monitor-display setup and recording-display setup custom functions in section 2 of the custom menu control the monitor display (p. 97).

The frames-remaining counter indicate the approximate number of frames that can be stored in the camera buffer memory while recording. This number changes as images are captured and saved to the memory card. 16 Names of parts 17 GETTING UP AND RUNNING This section covers the preparation of the camera. This includes the changing of batteries, memory cards, and lenses as well as the use of external power supplies. ATTACHING THE CAMERA STRAP Always keep the camera strap around your neck in the event that you drop the camera.

ATTACHING AND REMOVING A LENS This camera uses interchangeable lenses. See page 110 for compatible lenses. Never touch the inside of the camera, especially the lens contacts and mirror. Do not leave the interior of the camera exposed to dust or dirt. Replace the caps on the lens and attach the body cap or another lens to the camera as soon as possible.

Check the body cap or lens is free from dust before mounting. 1. Pass the tip of the strap through the camera's strap eyelet from below. Attach the strap so the tip comes between the strap and the camera. Remove the body cap from the camera and the rear cap from the lens. 2. Thread the tip of the strap through the holder ring and the inside of the buckle and pull to tighten. Leave some slack in the camera strap so the tip may be threaded through the buckle easily. 3. Push the holder ring toward the strap eyelet to secure the strap to the camera.

Repeat with the other end of the camera strap. Align the red mounting index on the lens and camera body. Carefully insert the lens into the mount, then turn it clockwise until it clicks into the locked position. Do not insert the lens at an angle. If it does not fit, check its orientation with the index marks. Never force the lens. Mounting indices DIOPTER ADJUSTMENT The viewfinder has a built-in diopter that can be adjusted between 2.5 to +1.0. While looking through the viewfinder, turn the diopter adjustment dial until the viewfinder focus frame is sharp.

The optional Eyepiece Corrector 1000 series diopters can be used if the adjustable viewfinder diopter is not sufficient. Press the lens release all the way in and turn the lens counterclockwise until it stops. Carefully remove the lens. Lens release 18 Getting up and running 19 CHARGING THE BATTERY Before the camera can be used, the lithium-ion battery must be charged. Before charging the battery, read the safety warnings on page 4 of this manual. Only recharge the battery with the supplied battery charger. The battery should be recharged before each shooting session. See page 140 for battery care and storage. INSTALLING AND CHANGING THE BATTERY This digital camera uses one NP-400 lithium-ion battery. Before using the battery, read the safety warnings on pages 4 of this manual.

When replacing batteries, the camera should be off. Plug the power cord into the back of the charger unit (1). Plug the other end of the cord into a live household outlet. The included AC cord is designed for the current of the sales region. Only use the cord in the region it was purchased. For more on the AC cable, see page 113. 1. Open the battery-chamber door by sliding the battery-chamber release toward the back of the camera. 2. Insert the battery with the battery contacts first.

Push the battery into the chamber until the battery latch clicks into place. 3. To remove a battery, slide the battery latch to the side of the battery chamber; the battery springs out. 4. Close the battery-chamber door until it clicks shut. With the battery contacts toward the charger, align the channels on the bottom of the battery with the tabs on the charger unit. Slide the battery into the unit. The indicator lamp (2) glows to show the battery is charging. The lamp goes out when the battery is charged. Charging time is approximately 150 minutes.

Slide and lift the battery to remove it from the charger. Unplug the power cord from the outlet. 20 Getting up and running 21 TURNING ON THE CAMERA Slide the main switch to the on position to turn on the camera. The access lamp glows briefly to indicate the power is on. When the camera is initially turned on, the date and time should be set, see page 26.

When not in use, turn the camera off to conserve power. BATTERY CONDITION INDICATOR This camera is equipped with an automatic battery-condition indicator. When the camera is on, the indicator appears on the monitor. The indicator changes from white to red when battery power is low. Not all camera functions are available if battery power is low.

If the monitor is blank, the battery may be exhausted. Camera Notes Each time the camera is turned on, it automatically focuses the lens to the infinity position, even in manual focus. This operation is necessary to ensure proper exposures. Full-battery indicator - the battery is fully charged. Low-battery indicator - battery power is low. Recharge the battery. Low-battery warning - battery power is very low. Recharge the battery. Access lamp AC ADAPTER AC-11 (SOLD SEPARATELY) 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.

Always turn off the camera and confirm the access lamp is not lit before changing between power supplies. When power falls below the level of the low-battery warning, the battery exhausted message appears just before the camera shuts down. The camera will not function until the battery is recharged. AUTO

POWER SAVE To conserve battery power, the camera shuts down if an operation is not made within three minutes. To restore power, press the shutter-release button partway down. The length of the auto-power-save period can be changed in section 3 of the setup menu (p. 105). The LCD monitor backlight turns off after five seconds. Press a camera button to restore the display. The length of this period can be changed in section 3 of the setup menu (p. 105). Open the DC terminal cover from the left. The cover is attached to the body to prevent loss. Insert the mini plug of the AC adapter into the DC terminal.

Insert the AC adapter plug into an electrical outlet.

Terminal cover 22 Getting up and running 23 INSERTING AND CHANGING A MEMORY CARD Always turn off the camera and confirm the access lamp is not lit before inserting or removing a memory card, otherwise the card may be damaged, and data lost.



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A memory card must be inserted for the camera to operate. If a card has not been inserted, "----" is displayed in the frame counter. Type I and II CompactFlash cards and Microdrives are compatible with this camera. If the "Unable to use card, Format?" message appears, the card should be formatted with the camera.

Use the right/left keys of the controller to highlight the yes button. Press the central button of the controller to format the card; this can take several minutes depending on the card. When a card is formatted, all the data on the card is permanently erased. Selecting "No" cancels the formatting operation; remove the card from the camera. A memory card used in another camera may have to be formatted before being used. Unable to use card. Format? Yes No 1 2 3 1. Slide the card-slot door toward the back of the camera to release the safety catch and open. 2. Insert a memory card all the way into the card slot.

Insert the card so the face is toward the front 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. Close the card-slot door and slide it toward the front of the camera to engage the safety catch. 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.us/> Europe <http://www.konicaminoltasupport.com>

4. To eject a card, open the card-slot door, and press and release the card-eject lever to extend it. 5. Press the extended card-eject lever to eject the card. The card can now be pulled out.

Take care when removing the card as it becomes hot with use. The card-eject lever should remain inside the camera body. If it extends, push it into the camera. 6. Insert a new memory card and close the card-slot door.

24 Getting up and running 25 SETTING THE DATE AND TIME After initially inserting a memory card and battery, a message opens requesting that camera's clock and calendar be set. Images are recorded with the date and time of capture. Depending on the region, the menu language may also have to be set. To change the language, see the setup menu section on pages 98 and 102. BASIC RECORDING SETTING THE CAMERA TO RECORD IMAGES AUTOMATICALLY Turn the exposure dial to the auto or program (P) position. The camera controls are automatic. Auto acts like the program mode, except that many of the recording functions are reset each time it is selected, see page 41 for more information. Not all function are available in auto recording such as the color mode and Digital Effects Control. The default camera sensitivity (p. 54) is auto for auto recording and ISO 100 for program.

Turn on the camera. Navigating the screen is simple. The up/down and left/right keys of the controller move the cursor and change settings. The central button of the controller sets adjustments. HANDLING THE CAMERA Set date and time? Yes No Use the left and right controller keys to select "Yes." "No" cancels the operation. Grip the camera firmly with your right hand while supporting the body with the palm of your left hand. Keep your elbows at your side and your feet shoulder-width apart to hold the camera steadily. The use of a tripod or monopod is recommended when using the camera in lowlight situations or when using telephoto lenses. Press the central button of the controller to continue.

BASIC RECORDING DISPLAY Date/Time set 2005 . 10 . 23 Use the left and right keys to select the item to be changed. The last item is the date format. Use the up and down keys to adjust the item.

The date format can be set among year/month/day, day/month/year, and month/day/year. The viewfinder and monitor show the same indicators used in the basic recording operations. 13 : 14 YYYY/MM/DD :sel :adj. :enter Date/Time setup screen Press the central button to set the clock and calendar.

Aperture Shutter-speed Flash indicator Anti-shake scale Focus signal Flash signal 27 26 Getting up and running BASIC RECORDING OPERATION Place the subject within the focus frame. The subject must be within the focus range of the lens. If using a zoom lens, change the focal length to frame the subject. FOCUS SIGNALS The viewfinder focus signal indicates the status of the autofocus system. Focusing time can be longer with macro or telephoto lenses, or in low-light conditions. 1 Press the shutter release button partway down to activate the autofocus and autoexposure systems (1). The viewfinder focus signal (A) confirms focus and the spot or local AF area (B) is illuminated briefly to indicate the point of focus. If the focus signal blinks, repeat the procedure. The shutter speed (C) and aperture (D) used for the exposure are displayed in the viewfinder and on the monitor. Focus locked.

Focus is confirmed (Continuous AF - p. 58). Indicator blinks - cannot focus. The shutter is locked. Focusing (Continuous AF). The shutter is locked. When the camera cannot focus, the subject may be too close or a special focusing situation may be preventing the system from focusing. Use focus lock with an object at the same distance as the main subject (p. 30), focus the camera manually (p. 49), or raise the flash to use the AF illuminator (p.

96). Autofocus priority and shutter-release priority can be specified in section 1 of the custom menu (p. 93). SPECIAL FOCUSING SITUATIONS 2 Press the shutter-release button all the way down (2) to take the picture. Press the shutter-release button gently so as not to shake the camera during the exposure. The recorded image is displayed while the image is being saved. Press the shutter-release button partway down to cancel the playback. For more on instant playback, see page 74. The access lamp (E) glows indicating the image data is being written to the memory card. Never remove a card while data is being transferred.

The camera may not be able to focus in certain situations. Use focus lock or manual focus. The subject is composed of repeating vertical lines. The subject in the focus frame is low in contrast. Two subjects at different distances overlap in the focus frame. The subject is near a very bright object or area. 28 Basic recording 29 FOCUS LOCK 1 The focus-lock function is used when the subject is off-center and outside the focus frame. Focus lock may also be used when a special focusing situation prevents the camera from focusing on the subject. Place the subject within the focus frame. Press and hold the shutter-release button partway down (1).

The focus signals indicates that the focus is locked. When the focus is set, an AF area is illuminated briefly to indicate the point of focus. USING THE BUILT-IN FLASH The built-in flash is designed to be used with lenses with focal lengths from 18mm or longer. When using lenses shorter than 18mm, the corners of the image are not be fully illuminated.



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The lens hood and certain lenses can cause shadowing, see page 110. The shutter will not release while the flash is charging. To use the flash, simply pull up the unit by the tabs on each side. The flash position must be set manually, and once up, the flash unit always fires regardless of the amount of ambient light.

The flash mode is changed with the recording menu (p. 75).

Push down the built-in flash when the camera is not in use. The flash is also used as an AF illuminator, see page 96. Focus signal 2 Without lifting your finger from the shutter-release button, recompose the subject within the viewfinder. Press the shutter-release button all the way down to take the picture (2). The viewfinder flash signal indicates the status of the flash.

Signal steady - flash charged and ready to fire. Signal blinking - flash output was sufficient for exposure. If the flash signal does not blink after taking the picture, the subject was not within the flash range. The flash range depends on the aperture used for the exposure. The follow chart shows the range when camera sensitivity is set to auto (auto recording) or ISO 100 (program).

See page 55 for the flash range with other camera sensitivity settings. CAMERA-SHAKE WARNING If the shutter speed falls below the point where the camera can be hand held safely, the camerashake warning indicator blinks in the viewfinder. Camera shake is slight blurring caused by subtle hand motion and is more pronounced with telephoto lenses than wide angle. Although the warning appears, the shutter can still be released. If the warning appears, place the camera on a tripod or use the built-in flash. Aperture f/2.8 f/3.5 f/4.0 f/5.6 Auto ISO (Auto recording) 1.

4m ~ 8.6m (4.6 ft. ~ 28 ft.) 1.1m ~ 6.8m (3.6 ft. ~ 22 ft.) 1.

0m ~ 6.0m (3.3 ft. ~ 20 ft.) 1.

0m ~ 4.3m (3.3 ft. ~ 14 ft.) ISO 100 (Program exposure) 1.

0m ~ 4.3m (3.3 ft. ~ 14 ft.) 1.0m ~ 3.4m (3.3 ft. ~ 11 ft.) 1.

0m ~ 3.0m (3.3 ft. ~ 9.8 ft.) 1.0m ~ 2.1m (3.3 ft. ~ 6.

7 ft.) Camera-shake warning 30 Basic recording 31 ANTI-SHAKE SYSTEM The Anti-Shake system minimizes the affect of camera shake, a slight blurring caused by subtle hand motion. Camera shake is more pronounced at long focal lengths than short ones. Anti-Shake is less effective with moving subjects or when the camera is panned, with shutter speeds of 1/4 second or longer, and short object distances. Anti-shake is disabled with bulb exposures (p.

45). DISPLAY BUTTON Press the display button to switch the monitor display among full, basic, and off. For more on the full display, see page 16. Anti-shake switch When the system is active, the Anti-Shake scale in the viewfinder glows. Anti-Shake is turned off and on with the Antishake switch.

Basic Frame the subject as described in the basic operation section. Press the shutter-release button partway down to focus and set the exposure. The Anti-Shake scale indicates the degree of stabilization. The greater the scale displayed, the more unstable the image. Confirm the image has stabilized with the scale and press the shutter-release button all the way down to take the picture. Anti-shake cannot be used with some lenses, see page 110. Turn Anti-Shake off when the camera is mounted on a tripod. The metered exposure may change when turning this function on and off. 1. 2.

3. 4. Exposure mode (p. 39) Shutter speed display Aperture display Image-size display (p. 72) 8. 9. 10. 11. 12. 13.

14. Frame counter (p. 73) White-balance display (p. 64) Release priority indicator (p. 93) AE lock indicator (p.

46) Battery condition indicator (p. 23) Color-mode indicator (p. 61) Camera-sensitivity display (p. 55) 5. Exposure/Flash compensation display (p. 48, 60) 6. Image-quality display (p. 72) 7. AF area display (p. 57) The full display uses a scale to show the degree of flash and exposure compensation as well as the metered exposure value in manual exposure. The basic display uses a numerical value. Turning off the display conserves battery power. Anti-shake scale 32 Basic recording 33 BASIC PLAYBACK Images can be viewed in the playback mode. This section covers the basic playback functions. The playback mode has additional menu functions, see page 82.

HISTOGRAM DISPLAY VIEWING IMAGES To view the histogram of the displayed image, press the up key. Press the down key to return to single-frame playback. Press the playback button to activate the playback mode. To return to the recording mode, press the playback button or the shutter-release button.

The left/right keys of the controller and the control dial display the recorded images. Image size (p. 72) Image quality (p. 72) 1. 2. 3.

4. 5. 6. 7. 8.

9. Image size (p. 72) Image quality (p. 72) Shutter speed Aperture Exposure mode (p. 39) Camera sensitivity (ISO) (p.

54) Histogram Focal length Exposure compensation (p. 48) 10. 11. 12. 13. 14. 15. Flash compensation (p. 60) White-balance mode (p. 64) Metering mode (p.

59) Anti-Shake Folder name - file number (p. 120) Date of recording 16. Frame number / Total number of images Time of recording Date of recording Folder

- file number (p. 102) Frame number / total number of images The dark area of the histogram shows the luminance distribution of the recorded image from black (left) to white (right). Each one of the 256 vertical lines indicates the relative proportion of that light value in the image. The histogram can be used to evaluate exposure and contrast, but displays no color information. Luminance limit display Areas of the image approaching the shadow and highlight

luminance limit are indicated in the image thumbnail. The portions of the image which levels are close to 0 and 255 flash. ROTATING IMAGES Press the down key of the controller to rotate a displayed image 90° left, 90° right, or horizontally. 34 Basic playback 35 DELETING SINGLE IMAGES The displayed image can be deleted.

Once deleted, an image cannot be recovered. CHANGING THE PLAYBACK DISPLAY The display 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. The index display can be changed in section 1 of the playback menu. To delete a displayed image, press the delete button; a confirmation screen opens.

Use the left/right keys to highlight "Yes." "No" cancels the operation. Delete this frame? Yes No Press the controller to execute the command on the confirmation screen. The camera returns to playback mode. Full display Image only Index playback Camera Notes The camera can play back images on a television set.

See page 101 on how to connect the camera to a TV with the supplied video cable. In index playback, the four-way keys of the controller move the yellow border to the adjacent image. 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 delete button (p.



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36). When the display button is pressed again, the highlighted image is displayed in the single-frame playback mode. A four, nine, and sixteen image index can be displayed as well as a file browser. The index-playback format can be changed in section 1 of the playback menu (p. 82, 87). 36 Basic playback 37 ENLARGED PLAYBACK An image can be enlarged for closer examination.

The maximum magnification depends on image size from 2.4X for small images to 4.7X for large images. Press the enlarge button to activate enlarged playback. The front control dial browses through the images. **ADVANCED RECORDING** This section contains detailed information on the camera's recording functions and operation. Read the sections pertaining to your interest and need. **EXPOSURE-MODE DIAL** The exposure-mode dial is used to select the exposure modes. Simply turn the exposure dial to the appropriate position. See the following sections for more information on these modes. The monitor displays the active exposure mode. Enlarge button Reduce button The controller's four-way keys scroll the magnified area. Exposure mode The locator (1) indicates the portion of the image displayed. The enlarge and reduce buttons change the magnification. :browse area Exposure control Press the central button of the controller to switch between displaying the entire image area and the magnified image.

Auto recording (p. 41) Program exposure (p. 41) Aperture priority (p. 42) The magnification area (2) shows the portion of the image enlarged. The controller's four-way keys moves the magnification area.

The enlarge and reduce buttons change the size of the area. Press the playback button to cancel enlarged playback. :browse enlarge Digital Subject Programs (p. 40) Portrait Sports Action Landscape Sunset Night portrait Shutter priority (p. 42) Manual exposure (p. 44) 38 Basic playback Advanced recording 39 Digital subject programs Digital subject programs optimize the camera's exposure, whitebalance, and image-processing systems for specific conditions and subjects. Simply turn the exposure mode dial to select the appropriate subject program. Auto recording Auto recording is set with the exposure-mode dial. Use this exposure mode when wanting fully-automatic exposure control. Auto recording operates like the program exposure mode, except that when the exposure mode dial is turned to the auto-recording position, recording functions are reset to their default settings.

Not all function are available in auto recording such as color mode and Digital Effects Control. Functions are reset to: fill-flash or red-eye reduction flash mode, multi-segment metering, Auto AF focus mode, wide AF area, single-frame advance drive mode, flash and exposure compensation reset, ADI flash control, Auto ISO, large-size images, fine image quality, AF priority, noise reduction. Portrait - optimized to reproduce warm, soft skin tones and a slight defocusing of the background. Most portraits look best with telephoto lenses; 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 fast action by maximizing shutter speeds. When using a flash, make sure the subject is within the flash range (p. 55). Continuous autofocus (p. 58) and continuous-advance drive mode (p.

50) are active. 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.

Take care not to look directly at the sun when it is above the horizon; your eyesight could be damaged permanently. Program - P Program exposure is set with the exposure-mode dial (p. 39). Like auto recording, program controls both the shutter speed and aperture required for each exposure. The operation is the same as described in the basic recording operation section on page 28.

However, unlike auto recording, functions set in this mode do not reset when the position of the exposure-mode dial is changed. The default camera sensitivity for program is ISO 100. Night portrait - for deep, subtle night scenes. When used with flash, the subject and background exposures are balanced. Use a tripod to eliminate blurring from camera shake. 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; long shutter speeds can be used for the background exposure. Not all recording functions, such as the color mode and Digital Effects Control can be changed when using Digital Subject Programs. The use of auto white balance (AWB) is recommended when using Digital Subject Programs (p. 64).

Program shift allows adjustment to the shutter-speed/aperture combination in 1/3 Ev increments without affecting the total exposure. Using the built-in flash cancels program shift. Press the shutter-release button partway down until the shutter speed and aperture are displayed. Turn the control dial (1) to shift the shutter speed and aperture combination; Ps is displayed for the exposure mode. Program shift can be changed between aperture and shutter priority in section 1 of the custom menu (p. 92, 95). Program shift 40 Advanced recording 41 Aperture Priority - A Aperture priority is set with the exposure-mode dial (p. 39). The photographer selects the aperture and the camera sets the appropriate shutter speed to ensure correct exposure. Turn the control dial (1) to adjust the aperture in 1/3 Ev increments.

The aperture range depends on the lens. The aperture is displayed on the monitor and in the viewfinder. Pressing the shutter-release button partway down displays the corresponding shutter speed. With the camera sensitivity (ISO) set to auto, the shutter speed may not change when the aperture is adjusted because the shutter speeds can change in fine steps. Press the shutter-release button all the way down to take the picture.

Exposure control range warnings Auto recording, Program, Digital Subject Programs If the required exposure is beyond the shutter speed and aperture range, the shutter speed and aperture displays blink. In bright conditions, use a neutral density filter on the lens, set a lower camera sensitivity (ISO), or, if using artificial lights, reduce the intensity of the illumination. In dark conditions, use the built-in flash or increase the camera sensitivity (ISO). Aperture priority If the required exposure is beyond the shutter speed range, the shutter-speed display blinks. Adjust the aperture until the display is steady. Shutter Priority - S Shutter priority is set with the exposure-mode dial (p. 39). The photographer selects the shutter speed and the camera sets the appropriate aperture to ensure correct exposure. Turn the control dial (1) to adjust the shutter speed between 30 and 1/4000 second in 1/3 Ev increments.



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The shutter speed is displayed on the monitor and in the viewfinder. Pressing the shutter-release button partway down displays the corresponding aperture. Press the shutter-release button all the way down to take the picture. Shutter priority If the required exposure is beyond the aperture range, the aperture display blinks. Adjust the shutter speed until the display is steady. About Shutter Speeds The shutter speed used for each exposure is displayed on the monitor and in the viewfinder.

The following notation is used: The reciprocal is used for shutter speeds from 1/4000 second to 1/3 second. 125 is 1/125 second. For shutter speeds of a half a second or longer, a quote mark is used to denote whole seconds. 1"5 is one and a half seconds and 15" is fifteen seconds. Flash Sync. Speed There is a limit to the maximum shutter speed when using the built-in flash. When Anti-Shake is on, the maximum shutter speed that can be used is 1/125s. With Anti-Shake off, the flash sync. speed is 1/160s. While a faster shutter speed cannot be used, there is no limit to the use of slower shutter speeds.

Flash range is dependent on the aperture, see page 55. 42 Advanced recording 43 Manual Exposure - M Manual exposure mode allows individual selection of shutter speeds and apertures. This mode overrides the exposure system giving the photographer control over the final exposure. Bulb exposures can be made, see below. Manual exposure is set with the exposure-mode dial (p.

39). By pressing and holding the AEL button (1), continuous meter readings are displayed on the Ev scales. Two indices can be displayed. The fixed index shows the meter reading made when the AEL button is pressed. The other index shows any changes in the metered area.

The fixed index is in reference to the selected metering mode (p. 59). The other index uses the spot metering area to determine the reading. 1. Turn the control dial to change the shutter speed. 2. Press and hold the exposure-compensation button and turn the control dial to change the aperture. The operation to change the aperture and shutter speed can be reversed in section 1 of the custom menu (p. 95). 3.

Press and hold the AEL button and turn the control dial to shift the shutter speed and aperture without affecting the exposure. Spot metering area When using flash with manual exposure, the shutter speed cannot exceed the flash-sync speed (p. 42). Flash range is dependent on the aperture (p. 55). Bulb exposures Bulb photographs can be taken in the manual-exposure mode (M). The use of a tripod, remote cord, and eyepiece cap (p. 111) is recommended. The camera's exposure system cannot be used to calculate bulb exposures. The use of a separate light meter is recommended.

Anti-Shake is disabled. The Ev scale on the monitor and in the viewfinder indicates the difference between the set exposure and the exposure determined by the camera meter. Press the shutter-release button partway down to activate the meter. The manual metering (M.M.

) indicator is displayed on the monitor Ev scale. 1. Set the appropriate aperture required for the exposure. 2. Decrease the shutter-speed until "BULB" is displayed.

The set exposure is 1.0Ev less () than the exposure determined by the meter. The arrow indicates the set exposure is 2.3Ev more (+) or less () than the exposure determined by the meter. The blinking arrow indicates the set exposure is ± 2.7 Ev or greater than the exposure determined by the meter. 44 3. To take the picture, press and hold the shutter-release button for the duration of the exposure. Releasing the shutter button ends the exposure. The monitor is blank during the exposure and remains blank after the exposure for up to 30 seconds while noise-reduction processing is applied to the image.

Advanced recording 45 EXPOSURE LOCK - AEL BUTTON The AE lock button locks the automatic exposure system without activating the AF system. This function allows the exposure to be set by a gray card or reference target outside the scene. When using flash in the auto recording, P, A, or digital subject program exposure modes, slow-shutter sync is active (p. 47). The operation of the AE lock button can be changed in section 1 of the custom menu (p. 94). The metered area is 1.0Ev less () than the locked exposure. The arrow indicates the metered exposure is 2.3Ev more (+) or less () than the locked exposure. The blinking arrow indicates the metered exposure is ± 2.7 Ev or greater than the locked exposure. SLOW SYNC. Frame the exposure target in the viewfinder depending on the metering mode in use (p. 59).

Press and hold the AE lock button (1) to lock the exposure; the shutter speed and aperture are displayed and the AEL indicator is displayed in the viewfinder and on the monitor. Release the button to cancel the lock. When using flash, pressing the AEL button activates the slow-sync. function; slow sync. is not available in S and M exposure modes.

Slow sync. balances the ambient light exposure with the flash exposure so the background is recorded with the subject. When the AEL button is pressed and held, the ambient light exposure is determined and the flash exposure is based on the locked aperture setting. The use of a tripod is recommended with slow-sync. exposures. Spot metering area 2 While holding the AEL button, place the subject in the focus frame and press the shutter-release button partway down to focus (2). Press the shutter-release button down all the way to take the picture. The exposure remains locked after the picture is taken if the AEL button is not released. While the exposure is locked, the camera meter is still active. The viewfinder and monitor Ev scale shows the difference between the locked exposure and the current light level measured with the meter.

Spot metering is used. When the monitor and viewfinder Ev scale indicates 0, the locked exposure shown in the shutter-speed and aperture displays is the same as the exposure determined by the spot-metering area. SPOT-AF BUTTON Spot AF can be used at any time. With the spot AF area placed on the subject, press and hold the central button of the controller to focus (1). The viewfinder focus signal confirms focus and the spot AF indicator (2) is displayed on the monitor. Pressing and holding the four-way controller key activates and locks focus with the wide focus area. Compose the image in the viewfinder and press the shutter-release button all the way down to take the picture. Focus remains locked after the picture is taken until the central controller button is released. AEL indicator Ev scale Spot AF area Focus signal 46 Advanced recording 47 EXPOSURE COMPENSATION When using auto recording, P, A, and S exposure modes or a digital subject program, the exposure can be compensated. To compensate the ambient exposure, press and hold the exposure-compensation button and turn the control dial; the degree of compensation is displayed on the monitor and viewfinder Ev scales.

DEPTH-OF-FIELD PREVIEW The aperture controls depth of field; the area in front of the camera that appears in focus.



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The smaller the aperture, the greater the depth of field. Depth-offield preview sets the lens aperture to the setting used in the exposure so the affect of depth of field can be seen in the viewfinder. Press the shutter-release button partway down to lock the focus and exposure. Press the depth-offield preview button to stop down the aperture.

The exposure is compensated by -1.0Ev. After the setting is made, the shutter-speed and aperture displays indicate the actual exposure. Because exposure compensation uses 0.3Ev increments, lens apertures may not be displayed correctly.

Sometimes the camera's exposure meter is deceived by high key or low key subjects. In the example below, the dark water caused the camera to overexpose the image making it bright and washed-out. By compensating the exposure, detail is brought out in the leaves, and the stones and water appear richer.

Camera Notes Some Konica Minolta lenses are equipped with focus-hold buttons. Section 1 in the custom menu allows the focus-hold button to be used for depth-of-field preview (p. 94). AF / MF SWITCH Slide the AM/MF switch to change between autofocus and manual focus. An indicator on the monitor shows the active focus mode. Metered camera exposure 1.0Ev 2.

0Ev Manual focus indicator 48 Advanced recording 49 DRIVE MODES The drive modes control the rate and method of image capture. Single-frame advance is the default drive mode and is described in the basic recording section on page 28. The drive mode is set with the drive-mode selection screen. Press the drive-mode button (1) to open the screen. Continuous-advance notes Continuous-advance mode allows a series of images to be captured while holding down the shutter-release button. The maximum frame rate is 3fps until the camera buffer memory is full. The frame rate after that depends on the writing speed of the memory card. Five RAW or three RAW + JPEG will fill the camera buffer memory. The number of JPEG images depend on the subject; some subjects can be compressed further than others. Drive-mode indicator Single-frame and Continuous advance - to take single or multiple images at one time (p. 51). Self-timer - to delay the release of the shutter by 10 or 2 seconds (p. 51). Exposure bracketing - to take a series of 3 images with differing exposure (p. 52).

White-balance bracketing - to make 3 images with differing white balance (p. 53) from a single exposure. Drive modes AF Zoom xi and Power Zoom lenses cannot be zoomed when taking pictures with continuous advance. The frame rate is affected by the flash as it must recharge between exposures. Focus and exposure are set between each frame with continuous AF and Auto AF.

Single-frame adv. Self-timer notes With the camera on a tripod, compose the picture as described in the basic recording section (p. 28). Press the shutter-release button partway down to lock the exposure and focus. Press the shutter-release button all the way down to begin the countdown. :func. :select :enter Options 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. Attach the eyepiece cap if a bright light source is behind the camera, see page 111. With the ten-second self-timer, the self-timer lamp on the front of the camera and the audio signals indicate the countdown.

The lamp glows steadily just before the shutter fires. To stop the countdown, change the position of the exposure-mode dial or flash (lift it or push it down), or turn the camera off. The audio signal can be turned off in section 1 of the setup menu (p. 98). The mirror raises just before the exposure. With the two-second self-timer, no indication is given during the countdown. The mirror raises when the countdown starts. Use the up/down keys of the controller to select the drive-mode group. Use the left/right keys of the controller to highlight the drive-mode option. Press the center button of the controller to select the drive mode.

An indicator is displayed on the monitor to confirm the selection. 50 Advanced recording 51 Exposure bracketing notes Bracketing is a method of taking a series of images of a static subject in which each image has a slight variation in exposure. Exposure and flash brackets can be made. Bracketing increment in Ev (p. 69) Single-frame advance bracketing Continuous-advance bracketing Select continuous-advance bracketing or single-frame advance bracketing and the bracketing increment with the drive-mode selection screen (p.

50). Continuous-advance bracketing creates a successive series of three images automatically when the shutter-release button is pressed and held. The shutter-release button must be pressed for each exposure when using single-frame advance bracketing. The greater the increment, the greater the difference among the images. When selected, the number of frames and the bracketing increment is displayed on the Ev scale.

The bracketing order can be set in section 2 of the recording menu (p. 80). Compose the picture as described in the basic recording section (p. 28). As the bracket is made, the index marks disappear from the Ev scale to show the remaining frames. When making a continuous-advance bracket, if the shutter button is release before the bracket is completed, the bracket resets. If using continuous AF or Auto AF with moving subjects (p. 58), the camera focuses between each exposure. When exposure brackets are made in S exposure mode, the aperture controls the bracket. In A and M exposure modes, the shutter speed controls the bracket; in M mode, pressing the AEL button during the bracket changes the exposure control to the aperture.

The camera uses both the aperture and shutter speed control the bracket in P and auto recording. Bracketing indicator White-balance bracketing notes White-balance bracketing creates three images from a single exposure in which each image has a slight variation in color temperature. For more on white balance, see page 64. Normal Under Exposure bracket: 0.3 Ev Over Low white-balance bracket High white-balance bracket Select the appropriate white-balance bracketing drive mode with the drive-mode selection screen (p. 50). The low white-balance bracket uses an approximate 10 mired shift from the normal balance. The high white-balance bracket uses an approximate 20 mired shift from the normal balance. Compose and take the picture as described in the basic recording section (p. 28).

When the exposure is made, the camera automatically creates two other images with the appropriate shift in white balance. Flash bracket: 0.7 Ev 0.3 Ev bracket 0.7 Ev bracket To make a flash bracket, raise the camera flash; the ambient exposure is not bracketed.

Only singleframe advance flash brackets can be made regardless of the specified mode; press the shutterrelease button for each exposure. The built-in flash recharges between exposures.



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Exposure brackets are made when the flash is down. 52 Advanced recording 53 CAMERA SENSITIVITY (ISO) AND ZONE MATCHING Camera sensitivity can be changed. Zone Matching for high-key or low-key subjects can be activated.

The sensitivity setting is displayed on the monitor. Press the camera sensitivity button (1) to open the setting screen. CAMERA SENSITIVITY AND FLASH RANGE A change in camera sensitivity (ISO) affects the flash range. The flash range depends on the aperture used: ISO setting Low80 100 200 / Hi200 / 2.8 1.0 ~ 3.8m / 3.3 ~ 12ft. 1.0 ~ 3.

8m / 3.3 ~ 14ft. 1.0 ~ 6.0m / 3.3 ~ 20ft. 1.4 ~ 8.6m / 4.6 ~ 28ft.

2.0 ~ 12m / 6.6 ~ 39ft. 2.8 ~ 17m / 9.

2 ~ 56ft. 4.0 ~ 24m / 13 ~ 79ft. / 4.0 1.

0 ~ 2.7m / 3.3 ~ 8.9ft. 1.0 ~ 3.0m / 3.3 ~ 9.8ft. 1.

0 ~ 4.3m / 3.3 ~ 14ft. 1.0 ~ 6.0m / 3.3 ~ 20ft. 1.4 ~ 8.6m / 4.

6 ~ 28ft. 2.0 ~ 12m / 6.6 ~ 39ft. 2.

8 ~ 17m / 9.2 ~ 56ft. / 5.6 1.0 ~ 1.

9m / 3.3 ~ 6.2ft. 1.0 ~ 2.1m / 3.3 ~ 6.7ft. 1.0 ~ 3.

0m / 3.3 ~ 9.8ft. 1.0 ~ 4.3m / 3.3 ~ 14ft. 1.0 ~ 6.0m / 3.

3 ~ 20ft. 1.4 ~ 8.6m / 4.6 ~ 28ft.

2.0 ~ 12m / 6.6 ~ 39ft. Camera sensitivity display Sensitivity / Zone Matching 400 / AUTO Use the four-way keys of the controller to highlight the sensitivity option. The Hi 200 and Lo 80 options are for Zone Matching, see below.

800 1600 3200 :select :enter Press the center button of the controller to complete the operation. The auto setting automatically adjusts the camera sensitivity to the light conditions between ISO 100 and 800, and ISO 100 and 400 when using flash. The fixed numerical settings are based on the film ISO equivalent: the higher the number, the more sensitive. As the ISO value doubles, the camera sensitivity doubles; a change of one Ev. Noise increases with sensitivity; an ISO setting of 100 has the least noise and 3200 has the most. Noise is a grainy texture that can be apparent in the image. Zone Matching is used for recording high-key (Hi200) or low-key (Low80) scenes. The number refers to the approximate ISO equivalent for reflected-light meter measurements. A high-key scene is made up of predominately light tones and colors. A low-key scene is made up of dark tones and colors.

Zone Matching controls exposure and contrast to improve reproduction of these scenes. When selected, the zone indicator is displayed in the camera-sensitivity display on the monitor. Any changes to contrast with the Digital Effects Control are canceled (p. 63). 54 Advanced recording 55 FUNCTION

BUTTON AF area, focus mode, metering mode, flash compensation, color mode, and Digital Effects Control are set with the function button. Monitor indicators show active settings. Press the button (1) to open the setting screen. AF area AF-area modes control which AF areas are used for focus. The modes are selected with the function button (p. 56).

The active AF area is indicated on the monitor. Function indicators AF area Wide AF area - to use the wide focus frames in the viewfinder to focus. See the basic operation section on page 28. Pressing and holding the four-way controller keys also activates and locks focus with the wide focus area. Spot AF can be used, see page 47.

Use the up/down keys of the controller to select the function. Spot AF area - the spot AF area is used for focus. The shutter release button and all controller keys activate spot AF. Focus area selection - a specific AF area can be selected. Only the spot AF area can be used with the AF Reflex 500mm f/8 and AF

Power Zoom 35-80mm f/4.

05.6 lenses. Functions Wide AF area Use the left/right keys of the controller to highlight the option or adjust the setting. Spot AF area :func. :select :enter Press the center button of the controller to complete the operation. Options Metering mode Flash compensation Color / DEC Natural Color / DEC Saturation AF area AF mode Wide AF area Automatic AF Multi-segment ±0.0 When focus area selection is active, use the controller to select the AF area; autofocus activates and locks each time an area is selected. The central button selects the spot AF area. Focus remains locked after the picture is taken until the controller is released. :func.

:select :enter :func. :select :enter :func. :select :enter :func. :adjust :enter :func. :select :enter :func. :adjust :enter See the following sections for more on each function. The color mode and Digital Effects Control cannot be set when using auto recording or a digital subject program. Flash compensation is only displayed when the flash is raised. 1. 2.

3. 4. 5. 6. AF area (p.

57) AF mode (p. 58) Metering mode (p. 59) Flash compensation (p. 60) Color mode (p. 61) Digital Effects Control (p.

63) The active area is indicated on the monitor and is briefly illuminated in the viewfinder. 56 Advanced recording 57 AF modes AF mode Metering modes Single-shot AF (Autofocus), continuous AF, automatic AF, and direct manual focus is set with the function button (p. 56). Automatic AF Metering mode The metering mode specifies the metering pattern. The metering mode is set with the function button (p. 56). On the function-selection screen, use the up/down keys of the controller to select the metering modes and the left/right keys to select the specific mode. Press the central button of the controller to complete the operation. The AF system activates when the shutter-release button is pressed partway down or with the controller (p. 57).

Focus is confirmed with the viewfinder focus signals, see page 29. :func. :select Multi-segment :func. :select :enter :enter Single-shot AF - a general purpose autofocusing mode. Its operation is described in the basic recording section. Focus lock is available (p. 30). Automatic AF - this AF mode automatically switches between single-shot AF and continuous AF depending on the subject's motion. Continuous AF - used for photographing moving subjects. The camera continuously focuses on the subject even when the shutter-release button is pressed partway down.

Spot and local AF areas illuminate as the subject moves through the wide focus frames to indicate the point of focus when the continuous AF is active. Focus lock is not available. Direct manual focus - operates like automatic AF, but after the AF system focuses, the focus can be adjusted manually by the photographer. Press the shutter-release button partway down or press the controller to activate the AF system. When the viewfinder focus signal is displayed, manually focus the lens.

Do not attempt to focus the lens until the focus signal is displayed. The active mode is displayed on the monitor. Multi-segment metering - the camera's standard metering mode appropriate for most photographic situations. By combining information on the subject's distance and position from the autofocus system, this mode is less influenced by spot lighting or backlighting. Center weighted - measures light values over the entire image area with emphasis given the central region.

Spot - uses a circular area within the image to calculate the exposure.



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