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You can read the recommendations in the user guide, the technical guide or the installation guide for KONICA MINOLTA DYNAX 404SI. You'll find the answers to all your questions on the KONICA MINOLTA DYNAX 404SI 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 DYNAX 404SI
User guide KONICA MINOLTA DYNAX 404SI
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E INSTRUCTION MANUAL



QUICK
OPERATION

GETTING
STARTED

FULL-AUTO
OPERATION

SUBJECT
PROGRAM
SELECTION

CREATIVE
EXPOSURE
MODES

ADDITIONAL
FEATURES

APPENDIX



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Manual abstract:

The information in this manual is relevant for products introduced before March, 1999. Contact the nearest authorized Minolta Service facility to obtain compatibility information for products released after this date. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. @@@@ However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and the receiver. · Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. This Class B digital apparatus complies with Canadian ICES-003.

Read and understand all warnings and cautions before using this product. WARNING Batteries may become hot or explode due to improper use. · Use only the batteries specified in this instruction manual. · Do not install the batteries with the polarity (+/-) reversed. · Do not subject batteries to fire or high temperatures.

· Do not attempt to recharge, short, or disassemble. · Do not mix batteries of different types, brands, or ages. · Tape over lithium battery contacts before disposal. Follow local regulations for battery disposal. Use caution, accidents may occur when using this product near young children.

Keep batteries and other things that could be swallowed away from young children. Contact a doctor immediately if an object is swallowed. Immediately remove the batteries and discontinue use if... · the camera is dropped or subjected to an impact in which the interior is exposed. · the camera emits a strange smell, heat, or smoke. Do not disassemble. Electric shock may occur if a high voltage circuit inside the camera is touched. Take your camera to a Minolta Service Facility when repairs are required.

Do not look directly at the sun through the viewfinder. CAUTION Do not allow a camera lens to point directly at the sun. Fire may occur if sunlight comes to focus on a flammable surface. Replace the lens cap when the product is not being used. 1 TABLE OF CONTENTS NAMES OF PARTS

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.....80 2 3 NAMES OF PARTS For information on specific parts, refer to the page numbers shown in parenthesis. NAMES OF PARTS Main switch Data Panel
Program-reset button (71) Subject-program button (30-35) Body Built-in flash (24-27) Flash-mode button Self-timer lamp (36) Function button Shutter-
release button Function dial Accessory shoe Viewfinder* Film window Manual-rewind button (28) Control dial Lens contacts* Back-cover release Mirror*
Focus-mode button (51) Lens mount Lens release (15) Exposure-compensation button (45, 55) Battery-chamber lock Battery-chamber door (12) Spot /AE lock
button (54) Remote-control terminal (49) Strap eyelet (11) Self-timer/Drive-mode button (36, 37) * Do not touch Tripod socket 4 5 NAMES OF PARTS Data
Panel Flash-mode indicators Red-eye reduction indicator Multiple-exposure indicator Exposure-mode indicators Manual-focus indicator Shutter-speed/ISO
display Aperture/Exposurecompensation display Exposure-compensation indicator Subject-program pointer Subject-program indicators NAMES OF PARTS
Viewfinder Focus frame Spot-metering area Focus signals Shutter speed display Exposure-compensation indicator Aperture/Exposure-compensation display
Spot/AE lock indicator Self-timer indicator Battery-condition indicator Wireless flash indicator Drive mode indicator Cartridge mark Film transport signal
Frame counter/Multiple-exposure display Flash signal 6 7 QUICK OPERATION 1. Insert batteries. · This camera uses two CR2 lithium batteries. QUICK
OPERATION 5. Set Full-Auto operation.

· Press the program-reset button to set the camera to fully-automatic operation. 2. Attach lens. · Align the red mounting dot on the lens with the one on the
camera. Gently insert the lens into the mount and turn it clockwise until it clicks into the locked position. 6. If using a zoom lens, rotate the zooming ring to
frame your subject as desired. 3. Turn on power. · Slide the main switch to ON.
7. Center your subject in the focus frame, then press the shutter release button partway down. · The camera will focus and set exposure automatically. 4. Load
film.
· Align the film tip with the red mark, then close the back cover. 8. Take the picture. · Gently press the shutter-release button all the way down to take the
picture. 8 9 LEVEL I This section provides the information necessary to operate your camera in most photographic situations.
This section covers: · Battery Installation · Attaching and Removing the Lens · Loading the Film · Camera Handling · Fully Automatic Camera Operation ·
Special Focus Situations · Basic Flash Operation · Rewinding the Film Once you fully understand the instructions in this section, proceed to Level II, Level
III, and Additional Features to obtain more enjoyment from your camera. G E T T I N G S T A R T E D Attaching the Strap 10 BATTERIES Installing the
Batteries Your camera uses two 3V CR2 lithium batteries to supply power for all camera operations.



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BATTERIES Checking Battery Power Each time the main switch is set to ON, a battery symbol appears in the data panel indicating the power status of the batteries. 1. Using a coin or similar object, turn the battery-chamber lock to OPEN, then open the battery-chamber door. Full-battery symbol Power is sufficient for all camera operations. · will only appear for five seconds. Blinking low-battery symbol 2. Insert the batteries as indicated by the + and marks. Power is extremely low.

All functions are operational, but the batteries will need to be replaced soon. Flash recycling time may be slow. 3. Close the battery-chamber door, then turn the battery-chamber lock to CLOSE. · Setting the camera down with the battery-chamber door open may damage the camera. Blinking low-battery symbol appears alone and the shutter locks. Power is insufficient for camera operation. Replace the batteries. No display Power is too low for the camera to operate. Replace the batteries or make sure they have been inserted correctly.

12 13 **LENS** Attaching the Lens 1. Remove the body and rear lens caps. **LENS** Removing the Lens 1. Press the lens release and turn the lens counterclockwise until it stops. 2.

Align the red mounting dots on the lens and camera body. 2. Gently remove the lens and replace caps, or attach another lens. Caution 3. Gently 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. · Do not press the lens release when attaching the lens. · Do not force the lens if it does not turn smoothly. · Do not touch the inside of the camera, especially the lens contacts and mirror. 14 15 **LOADING FILM** Check the film window before loading film. If film is loaded, do not open the back cover. Refer to Manual Rewind on page 28 for instructions on removing a partially exposed roll. · Load film in S The camera may not be able to focus in situations like those described below. When the focus signal blinks, use focus hold (p23) or manual focus (p51). See page 21 for an explanation of the focus signals.

If the subject within the focus frame is very bright, or low in contrast. **FOCUS HOLD** Use focus hold when your subject is outside the focus frame or when autofocus is difficult to confirm. Focus hold cannot be used for moving subjects. 1. Center your subject in the focus frame, then press the shutter-release button partway down. appears in the viewfinder when the focus is confirmed. · Focus hold also locks the expoil appears to return to autoflash mode.

Canceling Red-eye Reduction Turn the function dial to , then press the function button and turn the control dial until and OFF appear in the data panel. The shutter speed may be slow. Use of a tripod is recommended.

26 27 **REWINDING THE FILM** Automatic Rewind After you have exposed the last frame, the camera will automatically rewind the film. When the film is completely rewound, the motor will stop and will blink in the data panel indicating it is safe to open the back of the camera. **LEVEL II** Now that you are comfortable with the operation of the camera, take more control of the creative process by telling the camera what kind of picture you want to take. The subject program modes let you take more control without leaving the program exposure mode. In each of the subject program modes, the camera will automatically set the best possible shutter speed and aperture for the type of picture you are taking.

This section also lets you explore the use of the Self-timer and Continuous Advance modes. Subject Program Selection Page Portrait Mode 30 Landscape Mode 31 Close-Up Mode 32 Sports Mode 33 Night Portrait Mode 34 Photographing Night Scenes 35 Drive Mode Self Timer Continuous Advance Page 36 37 1. Wait until the film is completely rewound. · will appear and panel. will blink in the data 2.

Slide the back-cover release down to open the back cover. 3. Remove the film, then close the back cover. **Manual Rewind** Use manual rewind to rewind the film before the current roll is finished. 1. Press the manual-rewind button. 2. Follow steps 1-3 from Automatic Rewind. Each of these functions can be explored independently after Level I has been mastered. · Press the program-reset button to return the camera to Full-Auto operation.

28 **SUBJECT PROGRAM SELECTION** Portrait Mode Portraits have the greatest impact when a shallow depth-of-field* is used to separate the subject from the background. In Portrait mode, the necessary settings are made automatically, leaving you free to capture the perfect expression. * Depth-of-field is the area in front of and behind the point you focused on that appears sharp (p41). **SUBJECT PROGRAM SELECTION** Landscape Mode Landscape photography requires a large depth-of-field to make sure everything is in focus. In Landscape mode, the camera is set to obtain the greatest depth-of-field possible, while maintaining a shutter speed fast enough to prevent blur due to camera shake. Press the subject-program button until the subject-program pointer is under . Press the subject-program button until the subject-program pointer is under . Tips · For best results use a mid-telephoto lens with a large aperture. · Use flash when your subject is backlit or there are strong shadows across the face (p26). · Lock focus on your subject's eyes and be ready to capture the perfect expression.

Tips · For best results zoom to a wide view or use a wide angle lens and include a foreground subject or detail to create a feeling of depth in the picture. · Use flash when a subject in the foreground is backlit or has strong shadows across the face. If there is no subject in the foreground, do not use flash. · Use a tripod, especially at slower shutter speeds. 30 31 **SUBJECT PROGRAM SELECTION** Close-Up Mode Set Close-Up mode when photographing small objects like flowers or jewelry.

In Close-Up mode, the camera automatically sets the best possible aperture and shutter speed for the picture you are taking. **SUBJECT PROGRAM SELECTION** Sports Mode Fast shutter speeds are needed to stop action. In Sports mode, the camera will set the fastest possible shutter speed and continually adjust the focus to track fast-moving subjects. Press the subject-program button until the subject-program pointer is under . Press the subject-program button until the subject-program pointer is under .

Tips · For best results use a macro lens or a macro capable zoom lens. · Do not use the built-in flash if your subject is closer than 1.0m (3.3 ft.). The lens may block the flash, creating a shadow at the bottom of your image (lens shadowing). · Use a tripod to reduce camera shake. Tips · The built-in flash is only effective when your subject is within the flash range. · Use fast film and keep the focus frame on your subject.



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· Mount the camera on a tripod when using telephoto lenses.

32 33 SUBJECT PROGRAM SELECTION Night Portrait Mode Night portraits require the camera's flash exposure to be balanced with the background exposure. In Night Portrait mode, the camera sets the largest possible aperture with a longer shutter speed, allowing the background to appear in the photograph. SUBJECT PROGRAM SELECTION Photographing Night Scenes Cancel the flash in Night Portrait mode to photograph night scenes. The longer shutter speeds set in Night Portrait mode let you capture beautiful photographs of twilight scenes and night skylines. Press the subject-program button until the subject-program pointer is under . 1. Press the subject-program button until the subject-program pointer is under . Tips · Set the flash to on when using Night Portrait mode. See pages 26 and 27. · Use faster film and a tripod.

· Focus on the main part of your subject. · Warn your subject not to move while the picture is taken. 2. Press the flash-mode button and turn the control dial until appears in the data panel. Tips · Use faster film and a tripod. · If you are photographing a dark night scene, it may be difficult for the camera to focus, use focus hold (p23) or manual focus (p51). 34 35 SELF-TIMER The self-timer delays the release of the shutter for approximately 10 seconds after the shutter-release button is pressed. CONTINUOUS - ADVANCE MODE In this mode, the camera continues to release the shutter and advance the film as long as the shutter-release button is held down. · AF Zoom xi and Power zoom lenses cannot be zoomed when continuous advance mode is selected. 1.

Place the camera on a tripod, then press the self-timer button until appears in the data panel. 1. Press the drive-mode button until appears in the data panel. 2. Center your subject in the focus frame. 3. Press the shutter-release button all the way down to start the timer. · The self-timer indicator on the front of the camera will blink, then glow just before the shutter releases. · Self-timer mode is cancelled after the shutter is released. · Do not press the shutter-release button while standing in front of the camera.

· Attach the eyepiece cap if there is a bright light source behind the camera (p49). 2. Press the shutter-release button down and hold. · When taking flash pictures, the shutter will release after the flash is charged. · When the subject is moving, the shutter will release after the camera focuses on the subject. · To return to single frame mode, press the drive mode button until appears in the data panel. Press the self-timer button or slide the main switch to LOCK to cancel the self-timer before the shutter releases. 36 37 A-MODE APERTURE PRIORITY In A-mode, you select the aperture and the camera automatically sets the shutter speed required for proper exposure. Set the camera to A-mode when you want to control the range of sharpness (depth-of-field) in an image.

Refer to Aperture Control on page 41.

LEVEL III In this section you take full creative control of your camera. Depending on the selected exposure mode, you will control the aperture, shutter speed, or both to capture your image. In the previous sections, only the Program (P) exposure mode has been explored. Here you will learn to use the Aperture Priority (A), Shutter Priority (S), and Manual (M) exposure modes. Select A-mode to control the depth-of-field in your images.

Set S-mode to control the way moving subjects appear in your images. Set M-mode when you want full control over all the exposure functions. Exposure Mode A-Mode Manually select aperture S-Mode Manually select shutter speed M-Mode Manually select the shutter speed and the aperture · Each exposure mode can be explored independently. 1. Turn the function dial to .

2. Press the function button and turn the control dial until A appears in the data panel. Page 39 42 45 3. Turn the control dial to select the aperture. If 2000 or 30 s blinks in the data panel, the required setting is beyond the camera's shutter speed range. Turn the control dial until the blinking stops. 39 A-MODE APERTURE PRIORITY A-Mode Flash When the built-in flash is up or an attached accessory flash is on, it will fire each time a picture is taken. @@ · The shutter speed is automatically set to 1/90 or slower. @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ Small apertures (large numbers) provide greater depth-of-field. @@@@ Use S-mode when you want to control the blur caused by subject movement.

S-MODE SHUTTER PRIORITY S-Mode Flash When the built-in flash is up or an attached accessory flash is on, it will fire each time a picture is taken. Flash exposure is controlled by the camera's TTL automatic flash metering system. 1. Turn the function dial to . 1. @@ Press the function button and turn the control dial until S appears in the data panel. 2. @@@@ @@@@ @@@@ Turn the function dial to . 2. @@@@ @@@@ Turn the control dial to select the shutter speed.

4. @@@@ @@@@ @@@@ @@@@ @@@@ Mount the camera on a tripod. 2. @@@@ @@@@ Flip the remote-control terminal cover up. 2.

Insert the plug into the terminal. 4. @@@@ Press the focus-mode button. will appear in the data panel. ADDITIONAL F E A T U R E S 2.

Turn the focusing ring until your subject appears sharp and focused. appears in the viewfinder when the subject in the focus frame is in focus. · Press the focus-mode button again to return to the autofocus mode. · AF Power Zoom and xi-Series Lenses Pull and turn the control ring until your subject appears sharp. 51 FOCUS AF Illuminator The AF Illuminator is a secondary function of the built-in flash. When the scene is too dark for the camera to focus accurately, the built-in flash fires a few short bursts when the shutter-release button is pressed partway down to provide the illumination necessary for the camera to focus on your subject. EXPOSURE 8 Segment Metering Eight-Segment Honeycomb-Pattern Metering is the camera's standard metering mode and is appropriate for most photographic situations. · The range of the AF Illuminator flash is approximately one to five meters. · The AF illuminator will not fire in continuous focus mode or if flash cancel () is selected. · The AF illuminator will not operate with 300mm or longer single focal length lenses.

· The AF illuminator will not operate with 3x-1x Macro Zoom. · When an accessory flash is attached, its AF illuminator will be active in place of the camera's AF illuminator. · Changing Camera Functions (p70) lets you cancel the built in flash's AF illuminator if it will interfere with your subject or is inappropriate. 52 53 EXPOSURE Spot Metering Use only the center metering segment to lock the exposure settings without locking the focus. The exposure remains locked until the spot/AE lock button is released.



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· Pressing the spot/AE lock button sets the flash to slow sync mode (p61). **EXPOSURE Exposure Compensation** The metering system in this camera averages the readings from each active metering segment to determine an exposure that will achieve an average middle grey tone on the film. **Compensated Exposure**

1. Place the spot-metering area on the subject whose exposure you want to lock. Dark scenes are often overexposed. **Exposure compensation** lets you adjust the metered exposure +/- 3 stops in 1/2 stop increments. **Metered Exposure** 2. Press and hold the spot/AE lock button. · and the locked exposure will be displayed in the viewfinder. This effect is most visible when slide film is being used. Press the exposure compensation button and turn the control dial until the desired compensation value appears in the data panel. · Exposure compensation remains until it is reset or cancelled. · To cancel exposure-compensation, repeat the above procedure and select 0.0 or press the program-reset button. · Exposure compensation is not available in M-mode.

3. Recompose the scene as desired, then press the shutter-release button all the way down to take the picture. · The exposure is held until the spot/AE lock button is released. · Changing camera functions (p70) lets you change the operation of the spot/AE lock button to... Press to activate/Press again to cancel 54 **EXPOSURE Setting the ISO Manually** Set the film speed manually when you want to override the DX-coded film speed or when using non-DX-coded film. Film speeds can be set from ISO 6 to 6400 in 1/3EV increments. **EXPOSURE Bracketing** Film must be loaded before the ISO can be changed. 1.

Turn the function dial to ISO. **Metered Exposure 1/2 Stop Under 1/2 Stop Over** This function automatically exposes a 3 frame 1/2 stop increment bracketed series. The order of the exposures will be the metered exposure, 1/2-stop under the metered exposure, 1/2 stop over the metered exposure. · The automatic bracketing feature cannot bracket flash exposures. 2. @@@@Some testing may be necessary to produce the desired results. @@@@Press the function button and turn the control dial until OFF appears in the data panel. **Slow-shutter Sync Conventional Flash Sliding** the main switch to LOCK does not cancel multiple exposure mode. 1. Frame your subject.

2. While pressing the spot/AE lock button, press the shutter-release button all the way down to take the picture. · If the background is bright or a large aperture is set (A-mode), the shutter speed may not be reduced. · Use a tripod if the shutter speed becomes too slow to allow sharp, hand-held pictures after you press the spot/AE lock button. · and the locked exposure will be displayed in the viewfinder.

60 61 **FLASH Wireless/Remote Flash** Wireless/Remote Flash is available with the Minolta 5400HS, 5400xi, and 3500xi accessory flashes. Wireless/Remote flash lets you experience the creative control available with an accessory flash. In Wireless/Remote flash mode, the off-camera flash is triggered by a coded signal from the camera's built-in flash when you press the shutter-release button. When proper exposure has been received, another signal cuts the accessory flash off. You can also achieve a 2:1 lighting ratio automatically.

When remote ratio flash is selected, the off-camera flash provides 2/3 of the full exposure while the built-in flash provides the remaining 1/3. **FLASH Wireless/Remote Flash Setting Wireless/Remote Flash Mode** 1. Attach the accessory flash to the camera, then turn the camera and the flash on. **Normal Flash** 2. Turn the function dial to WL. **Wireless/Remote Flash** 3. Press the function button and turn the control dial until WL and On appear in the camera's data panel. **Wireless/Remote Ratio Flash** 4. Detach the accessory flash, then press the camera's flash mode button to raise the builtin flash. Continued on next page.

62 63 **FLASH Wireless/Remote Flash Taking Pictures in Wireless/Remote Flash Mode** The off-camera flash will provide all of the exposure. 1. Position your camera and 3500xi flash unit using the information on this page. · If you are not using the 3500xi flash, refer to your flash instruction manual for the correct camera to subject and flash to subject distances. **FLASH Wireless/Remote Flash** 2. Wait until both flash units are fully charged. appears in the viewfinder when the builtin flash is charged. · When the off-camera flash is charged, its AF illuminator will blink. · Press the spot/AE lock button to test fire the accessory flash. 3.

Press the shutter-release button all the way down to take the picture. **Wireless/Remote Ratio Flash** Press the flash-mode button when taking the picture. Both flashes will fire when the shutter is release at a 2:1 ratio. The built-in flash will provide 1/3 and the accessory flash will provide 2/3 of the total exposure.

Aperture	Camera	Subject Distance	3500xi	Subject Distance	f/2.					
		8 f/4.0	f/5.6	1.4	5.0m (4.					
		6	16 ft.)	1.0	5.0m (3.3	16 ft.)	1.0	5.0m (3.3	16 ft.)	1.

0 5.0m (3.3 16 ft.) 0.7 4.5m (2.3 14.5 ft.) 0.5 3.

2m (2.3 10.5 ft.) · Calculated for ISO 100 film only. 64 65 **FLASH Wireless/Remote Flash Cancelling Wireless/Remote Flash Mode** 1.

Attach the accessory flash to the camera, then turn the flash on. 2. Turn the function dial to WL. **FOR OWNERS OF THE QUARTZ DATE MODEL** The Quartz-data function lets you record the date or time onto the lower-right corner of the photograph. The quartz data back has an automatic calendar through the year 2019.

· Imprinted data may be difficult to read if the lower-right corner of the photograph is bright or non-uniform. · Imprinting size and position may differ according to printing conditions. · Do not use the data back when temperatures exceed the operating range of 0 to 50 °C (32 to 122 °F). **Print indicator** Select button Mode button Adjust button 3. Press the function button and turn the control dial until WL and OFF appear in the camera's data panel. **Exposing the Date/Time** Before taking the picture... 1. Press the mode button to choose the data imprinting format.

· The display changes as follows: 4. Detach the accessory flash. 2. Take the picture. · If the print indicator blinks after the shutter is released, the data was exposed. 66 67 **FOR OWNERS OF THE QUARTZ DATE MODEL Setting the Date/Time** 1. Press the mode button to choose the data imprinting format. · M will appear above the month. **FOR OWNERS OF THE QUARTZ DATE MODEL Replacing the Battery** The quartz data back uses a CR2025 lithium battery, located on the inside of the back cover. Replace the battery if the display or imprinted data becomes dim.

1. Open the back cover.



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2. Using a coin or similar object, turn the battery cover counter-clockwise, then remove it. 2.

Use the select button (SEL) to move between different parts of the displayed data. · The selected part will blink, indicating that it is the data to be changed. 3.

Press the adjust button (ADJ) to change the data to the correct value. · Data continues changing as long as the button is held down.

· In time mode, pressing the ADJUST button while : is blinking resets the seconds counter to zero (not shown). 3. Remove the old battery and replace it with a new one. · The + side should face up. 4. Replace the battery cover, then reset the date and time. 4. When all data is correct, press the select button (SEL) until the data stops blinking. 68 69 CHANGING CAMERA FUNCTIONS Spot/AE Lock Button Operation Slide the Main switch to LOCK, then to ON while pressing the Program-reset button and Spot/AE lock button. · Repeat the above procedure to return to the previous setting.

APPENDIX Program Reset Button Press the program-reset button to return the following camera functions to their program settings. Press to activate, release to cancel. Press once to activate, press again to cancel. **FUNCTION P-MODE SETTING** P mode Autofocus Auto-on +/- 0 Single-frame advance Cancelled Cancelled Cancelled AF Illuminator (Built-in Flash) Function Slide the Main switch to LOCK, then to ON while pressing the Flash-mode button. · The status of the AF illuminator is displayed in the data panel. Exposure mode Focus mode Flash mode Exposure Compensation Film-drive mode Self-timer AF Illuminator On When the built-in flash is up, its AF illuminator fires when necessary to assist focus. · The AF illuminator does not fire when flash cancel (selected.) is Wireless/Remote Flash Bracketing Multiple Exposure AF Illuminator Cancelled The built-in flash's AF illuminator will not fire. · An attached accessory flash's AF illuminator will not be cancelled. · Other flash functions will operate normally.

· Date, red-eye reduction, ISO settings will not change. · Pressing the program-reset button will also reset an attached dedicated accessory flash's program settings. Refer to the flash instruction manual for details. · Spot/AE lock button function, AF illuminator function will not change. 70 **ACCESSORY**

INFORMATION This camera is designed to work specifically with lenses and accessories manufactured and distributed by Minolta.

Using incompatible accessories with this camera may result in unsatisfactory performance or damage the camera and accessories. **ACCESSORY INFORMATION** Accessory Flash Control When using an accessory flash, the desired flash mode can be selected using the camera or the flash. Compatibility of Accessories Lenses · All Minolta AF lenses can be used with this camera. · MD and MC series lenses (manual focus) cannot be used with this camera.

CAMERA Press the flash-mode button and turn the control dial to select the desired flash mode.

· The camera transfers data to the accessory flash immediately. Flashes · All Minolta i, si, and HS series flash units, and the Vectis SF-1 flash, are compatible with this camera. (Hi-speed syncro mode on HS flash cannot be used with this camera.) · The Flash Shoe Adapter FS-1100 is required to mount AF series flash units (4000AF, 2800AF, 1800AF, and Macro flash I200AF). · When the FS-1100 is used... · The flash will fire every time the shutter is released. · The AF illuminator will not activate. · The built-in flash is set to fill flash when the accessory flash is removed.

· X-series flashes and flashes sold by other manufacturers cannot be used with this camera. **FLASH** Press the flash's ON/OFF button to select the desired flash mode. · Data is not transferred from the flash until the shutter-release button is pressed partway down. · Fill flash cannot be selected when the camera is set to

Full-Auto or any of the Subject Program modes. Others · The following accessories are not compatible with this camera: Control Grip CG-1000 Data Receiver DR-1000 Creative Expansion Cards Anglefinder Magnifier Wireless Controller IR-1N 72 73 **ACCESSORY INFORMATION** For owners of the optional lens kits Lens Hood Flare is non-image forming light that degrades image quality. A lens hood improves image quality by reducing flare. · Remove a lens hood before using the camera's built-in flash. **EXPOSURE WARNINGS** Indicators will blink in the viewfinder or data panel when there is a problem with the exposure. **MODE DISPLAY CAUSE** Scene or subject brightness is beyond the camera's metering range. Light level is beyond the range of available shutter speeds and apertures.

The required shutter speed is beyond the range of the camera. **ACTION** Fit the lens hood into the mount at the end of the lens barrel, then turn the hood clockwise until it stops. · To store the hood, reverse it, attach it to the lens, then replace the lens cap. P A S M P Bright Light: use slower speed film, a neutral density (ND) filter, or reduce the light level of your surroundings. Low Light: use higher speed film or a flash.

A Select a larger or smaller aperture until the display stops blinking. S The required aperture is beyond the range of the lens. Select a faster or slower shutter speed until the display stops blinking. 74 75 **TROUBLE SHOOTING** Contact your nearest Minolta Service Facility if the following information does not cover the problem which you are experiencing or the condition continues. **TROUBLE SHOOTING PROBLEM** No display appears when the camera is switched on. **CAUSE** Batteries are loaded incorrectly. Batteries are exhausted. Situation is unsuitable for autofocus. **SOLUTION** Remove and reinstall the batteries. If the camera battery is exhausted, install a new battery. Use focus hold or manual focus. Press the focus mode button to return the camera to autofocus mode. Check the minimum focus distance for your lens. Use focus hold or manual focus. Contact a Minolta service facility for information.

PAGE 12 12 23/51 51 23/51 Autofocus does not work when shutterrelease button is pressed partway down. Camera is set to manual focus mode. Subject is too close. Focus cannot be confirmed. Shutter cannot be released. Camera is attached to a microscope or telescope. Flash fires when the shutter-release button is pressed partway down. Flash picture is too dark. Lower part of flash picture is dark. The AF illuminator is on.

This is a normal camera operation. Subject is beyond flash range. Lens hood attached. Make sure the subject is within the flash range. Remove lens hood. Remove and reinstall the batteries. If normal camera operation does not resume or the camera malfunctions repeatedly, contact an authorized Minolta Service Facility.



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25 74 Err appears in the data panel. Camera Malfunction 12 76 77 CARE AND STORAGE Operating Temperature and Conditions · This camera is designed for use from -20 to 50 °C (4 to 122 °F). · Never leave your camera where it may be subjected to extreme temperatures such as the glove compartment of a car.

· Data panel response time will be slow at colder temperatures. The display will temporarily darken at higher temperatures, but will restore when the temperature normalizes. · Never subject the camera to extreme humidity. · To prevent condensation from forming, place the camera in a sealed plastic bag when bringing it from cold environment to a warm environment. Allow it to come to room temperature before removing it from the bag. · The low-battery symbol may appear even with fresh batteries depending on the storage conditions. To restore camera power, repeat turning the camera on and off. · Battery capacity decreases at colder temperatures. @@@@ @@@@ · Never place lens fluid directly on the lens. · Never touch the interior of the camera, especially the shutter and mirror, doing so may impair their alignment and movement.

· Dust on the mirror will not affect the exposure but may affect the focus, Use a blower brush to remove dust from or around the mirror. · Never use compressed air to clean the camera's interior, it may cause damage to sensitive interior parts. · Never use organic solvents to clean the camera. · Never touch the lens surface with your fingers. Storage When storing your camera for extended periods, · Always attach the protective caps. @@@@ @@@@ · Minolta is not responsible for any loss that may occur due to an equipment malfunction. Questions and Service · If you have questions about your camera, contact your local camera dealer or write to the Minolta distributor in your area. · Before shipping your camera for repair, please contact an authorized Minolta Service Facility for details. 78 79 SPECIFICATIONS Camera Type: Lens Mount: Viewfinder: Shutter Type: Speeds: Flash sync speed: Focus Type: 35mm SLR with built-in flash, autoexposure (AE), and action predictive autofocus (AF) Minolta A-type bayonet mount SLR roof mirror type, 90% field of view, Magnification: 0.75X Electronically-controlled, vertical-traverse, focal-plane type 30 sec.

- 1/2000 sec., bulb 1/90 or slower SPECIFICATIONS Drive Modes: Single frame, continuous advance (1 frame/sec.), self-timer, exposure bracketing, and multiple exposure. Auto rewind, manual start (Count-down display) Forward (shows number of exposures taken) 12 (ISO 100 in meters) 28mm angle of view Approx. 3 sec.

(according to Minolta test methods) Rewind: Frame counter: Built-in Flash GN: Coverage: Recycling Time: TTL phase-detection system, with one CCD sensor. Autofocus and manual focus modes. AF Sensitivity Range: EV -1 to 18 (ISO 100) AF Illuminator: Built-in with range of 1.0 - 5.0m. Automatically activated in low-light/ lowcontrast situations. AF Control: Single-shot, continuous, automatic AF-mode selection. Exposure Modes: P, A, S, M, and 5 Subject Program modes (Portrait, Landscape, Close-up, Sports, Night Portrait) Type: TTL metering; direct TTL metering for flash Metering Cell: 8-segment honeycomb pattern SPC for ambient light and flash-metering SPC for flash. Metering Range: Multi-segment metering: EV 1 - 20, Spot metering: EV 4 - 20 (ISO 100, f/1.4 lens) Film-speed Setting: Automatic: ISO 25 to 5000 for DX-coded film. Manual: ISO 6 to 6400 in 1/3 EV increments. Flash: ISO 25 - 1000. Film Transport Loading: Auto load Additional Power: Two CR2 lithium batteries Battery Performance: Condition A Condition B Flash Use (%) 0 50 100 20 °C 40 rolls 17 rolls 11 rolls -10 °C 30 rolls 13 rolls 8 rolls 20 °C 65 rolls 23 rolls 14 rolls -10 °C 50 rolls 18 rolls 10 rolls * 24 exposure rolls Condition A: Lens(35-80 f/4-5.6) focused from infinity to 2m three times and the shutter-release button held partway down for ten seconds before each exposure. Condition B: Lens(35-80 f/4-5.

6) focused from infinity to 2m and the shutter-release button held partway down for five seconds before each exposure. · Battery performance will vary with usage conditions. · Exposures taken at a rate of 2 rolls/month. Dimensions : Weight : 135.0 x 90.0 x 58.5mm (WxHxD) QD model: 135.0 x 90.0 x 61.0mm (WxHxD) 350g (w/o camera battery), QD model: 360g (w/o camera battery) Specifications and accessories are based on the latest information available at the time of printing and are subject to change without notice.

80 81 NOTES NOTES 82 83 NOTES NOTES This mark certifies that this product meets the requirements of the EU (European Union) concerning interference causing equipment regulations. CE stands for Conformité Européenne (European Conformity). 84 85 Minolta Co., Ltd. Minolta GmbH Minolta France S. A. Minolta (UK) Limited Minolta Austria Ges. m.b.H.

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