

#### The essentials of imaging

www.minolta.com



# DIMAGE Xi

### BEFORE YOU BEGIN

Thank you for purchasing this Minolta product. Please take the time to read through this instruction manual so you can enjoy all the features of your new digital camera.

This manual contains information regarding products introduced before October, 2002. To obtain compatibility information for products released after this date, contact a Minolta Service Facility listed on the back cover of this manual.

Check the packing list before using this product. If any items are missing, immediately contact your camera dealer.

Minolta DiMAGE Xi digital camera Lithium-ion battery NP-200 Lithium-ion battery charger BC-200 Hand strap HS-DG100 16MB SD Memory Card AV cable AVC-200 USB cable USB-500 DiMAGE software CD-ROM DiMAGE Viewer manual Camera manual Warranty card

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### FOR PROPER AND SAFE USE

#### NP-200 Lithium-ion batteries

The DiMAGE Xi operates on a small, but 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.



#### 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 within the voltage range specified on the charger unit.
   An inappropriate charger or current 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.

(Continued on the next page.)

### FOR PROPER AND SAFE USE



#### **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.

#### General warnings and cautions for product use.

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 AC adapter within the voltage range indicated on the adapter unit. An inappropriate adapter or 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.
- Do not look directly at the sun or strong light sources through the viewfinder. It may damage your eyesight or cause blindness.
- Do not look at the sun or strong light sources directly 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 Minolta Service Facility when repairs are required .

### FOR PROPER AND SAFE USE

#### CAUTION

- 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 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.

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#### ABOUT THIS MANUAL

The getting up and running section covers how to prepare the camera for use. It contains important information about power supplies and memory cards. The basic operation of this camera is covered in the recording-mode section between pages 20 and 29, and the playback-mode section between pages 54 and 60. Read the datatransfer mode section in its entirety before connecting the camera to a computer.

Many of the features of this camera are controlled with menus. The menu navigation sections concisely describe how to change menu settings. Descriptions of the settings immediately follow the navigation sections.

The appendix contains a troubleshooting section to help answer questions about the operation of the camera. Information covering camera care and storage is also provided. Please store this manual in a safe place.

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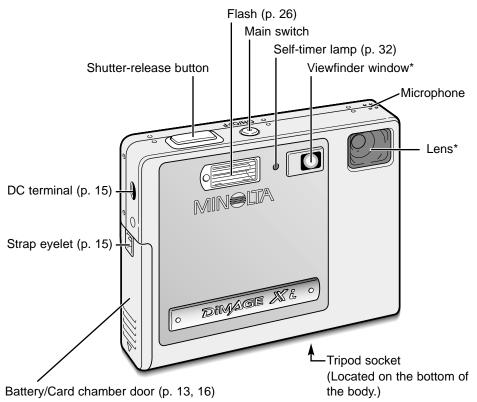
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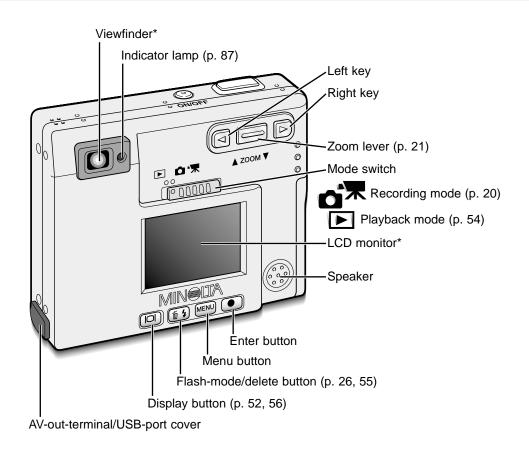
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### Names of Parts

\* This camera is a sophisticated optical instrument. Care should be taken to keep these surfaces clean. Please read the care and storage instructions in the back of this manual (p. 90).





## **GETTING UP AND RUNNING**

This section covers how to prepare your camera for use. Details on the use and installation of the battery and memory card are given as well as how to attach the hand strap and optional AC adapter.

#### Charging the lithium-ion battery

Before the camera can be used, the lithium-ion battery must be charged. Before charging the battery, read the safety warnings on pages 3 and 4 of this manual. Only recharge the battery with the supplied battery charger. The battery should be recharged before each shooting session. See page 91 for battery care and storage.

Plug the power cord into the charger unit (1).

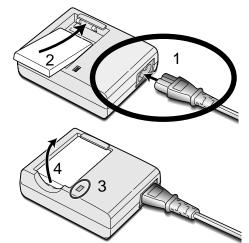
With the battery terminals toward the front and the label face up, slide the battery into the charger (2).

Plug the charger into a live household outlet.

 After a few seconds, the indicator lamp (3) will glow to show the battery is charging. The lamp will go out when the battery has been charged.
 Charging time is approximately eighty minutes.

Unplug the power cord from the outlet.

Remove the battery from the charger (4).



• 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 86.

#### Changing the lithium-ion battery

This digital camera uses one NP-200 lithium-ion battery. Before using the battery, read the safety warnings on pages 3 and 4 of this manual. When replacing the battery, the camera should be turned off.

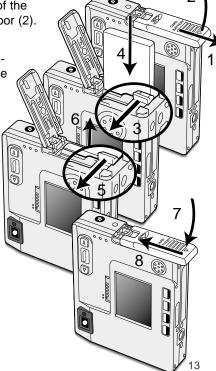
Slide the battery-chamber door toward the bottom of the camera to release the safety catch (1). Open the door (2).

Move the battery latch towards the back of the camera to insert the battery (3). Slide the battery into the battery chamber (4) with the battery terminals first until it is caught by the latch.

To remove the battery, move the latch towards the back of the camera until the battery is released (5). Pull the battery out of the chamber (6).

Close the battery-chamber door (7) and slide it toward the top of the camera to engage the safety catch (8).

After installing the battery, the set-time/date
message may appear on the monitor. The clock and
calendar is set in the setup 1 section of the menu
(p. 18). An internal battery protects the clock,
calender, and memory settings for more than 24
hours if the camera is used for at least 5 minutes
before removing the battery.



#### Battery-condition indicator

This camera is equipped with an automatic battery-condition indicator displayed on the LCD monitor. The icon will change from white to red when battery power is low.



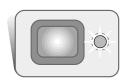
Full-battery icon - the battery is fully charged. This icon is displayed for three seconds when the camera is on or switched between the recording or playback mode.



Half-full-battery icon - the battery is partially charged. This icon is displayed for three seconds. The LCD monitor will turn off when the flash is charging.



Low-battery warning - battery power is very low. The battery should be replaced as soon as possible. This warning automatically appears and remains on the monitor until the battery is recharged. If the power level falls below this level when the camera is on, the battery-exhausted message will appear just before the camera shuts down.



If power is insufficient for camera operation, the indicator lamp next to the viewfinder will turn red and blink for three seconds. The shutter will not release. The battery must be recharged.

#### Auto power off

To conserve battery power, the camera will shut down if an operation is not made within three minutes. To restore power, press the main switch. The length of the autopower-off period can be changed in the setup 1 section of the recording and playbackmode menu (p. 28, 58). When the camera is connected to a computer, the auto-power-off period is set to ten minutes and cannot be changed.

### AC adapter (sold separately)

Do not change the power supply while the camera is on. Always turn off the camera before changing between power supplies.

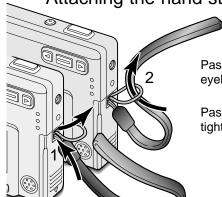


The AC adapter AC-4 or AC-5 allows the camera to be powered from a household outlet. The AC adapter is recommended when the camera is interfaced with a computer or during periods of heavy use. AC adapter model AC-4 is for use in North America, Japan, and Taiwan, and AC-5 is for use in all other areas.

Insert the mini plug of the AC adapter into the DC terminal (1).

Insert the AC adapter plug into an electrical outlet.

#### Attaching the hand strap



Always keep the strap around your wrist in the event that the camera is accidentally dropped.

Pass the small loop of the hand strap through the strap eyelet on the camera body (1).

Pass the other end of the strap through the small loop and tighten (2).

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#### Installing and removing a memory card

Always turn off the camera and confirm the indicator lamp is not orange and blinking before changing the memory card, otherwise the card may be damaged, and data lost.

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An SD (Secure Digital) Memory card or MultiMediaCard must be inserted for the camera to operate. If a card has not been inserted, a no-card warning will appear on the LCD monitor; the shutter can still be released.

Slide the battery-chamber door toward the bottom of the camera to release the safety catch (1). Open the door (2).

Insert the memory card all the way into the card slot and then release (3). The card should catch in the slot.

- Insert the card so the face is toward the front of the camera.
   Always push the card in straight, never at an angle. Never force the card. If the card does not fit, check that it is orientated correctly.
- If a MultiMediaCard is inserted incorrectly, it will lock, but the card chamber door will not close.

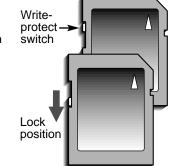
To eject a memory card, press the card into the slot and release (4). The card can now be pulled out.

Close the battery-chamber door (5) and slide it toward the top of the camera to engage the safety catch (6).

#### About memory cards

The response time during recording and playback is longer with MultiMediaCards compared with SD Memory Cards. This is not a defect, but rather due to the specifications of the cards. When using large capacity cards, some operations like deletion may take longer.

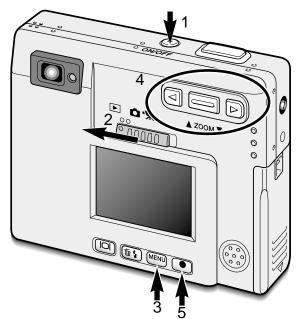
The SD Memory Card has a write-protect switch to prevent image data from being deleted. By sliding the switch to the bottom of the card, the data will be protected. However, when the card is protected, images cannot be recorded. If an attempt is made to record or delete an image with the camera, the card-locked message will appear and the LED lamps near the viewfinder will turn red and blink quickly. For memory card care and store see page 90.



If the unable-to-use-card message appears, the inserted card in the camera may need to be formatted. A card used in another camera may also have to be formatted before being used. A card can be formatted in the setup 2 section of the playback menu (p. 58). When a card is formatted, all the data on the card is permanently erased.

#### Setting the date and time

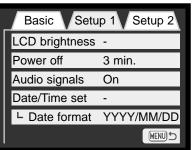
After initially inserting a memory card and charging the battery, the camera's clock and calendar must be set. When images are recorded, the image data is saved with the date and time of recording. Depending on the region, the menu language may also have to be set. To change the language, refer to page 69.

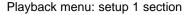


Turn the camera on by pressing the main switch near the shutter-release button (1).

Slide the mode switch to the playback position (2).

The date and time can be set on the playback menu. Navigating the menu is simple. The menu button (3) turns the menu on and off. The zoom lever and left and right keys (4) control the cursor and change settings on the menu. The enter button (5) selects menu options and sets adjustments.







Press the menu button to active the playback menu.



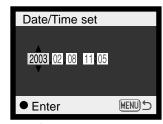
Use the right key to highlight the setup 1 tab at the top of the menu.



Use the zoom lever to highlight the date/time-set menu option.



Press the right key. "Enter" will appear on the right side of the menu.



Date/Time setting screen



Press the enter button to display the date/time setting screen.



Use the left and right keys to select the item to be changed. Use the zoom lever to adjust the item.



Press the enter button to set the clock and calendar. The playback menu will be displayed.



Press the menu button to close the playback

### RECORDING MODE

This section covers the basic recording operation as well as advanced recording functions. To start using the camera, read pages 20 through 29. Many of the recording functions are controlled with menus. The menu navigation sections concisely describe how to change menu settings. Descriptions of the settings immediately follow the navigation section.

#### Handling the camera

While using the viewfinder or LCD monitor, grip the camera firmly with your right hand while supporting the camera body with your left. Keep your elbows at your side and your feet shoulder-width apart to hold the camera steadily.

When taking vertical pictures, hold the camera so that the flash is above the lens with the shutter-release button to the top. Take care not to cover the lens with your fingers or the strap.

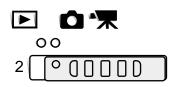


#### Setting the camera to record images



Turn the camera on by pressing the main switch (1).

Slide the mode switch to the recording position (2).



#### Using the zoom lens

This camera is equipped with a unique 5.7 - 17.1mm zoom lens. This is equivalent to a 37 to 111mm lens on a 35mm camera. The lens is controlled by the zoom lever at the back of the camera.

In 35mm photography, focal lengths below 50mm are referred to as wide-angle; the angle of view is larger than that of the human eye. Above 50mm is referred to as telephoto and makes distant objects appear closer. The effect of the optical zoom is visible in both the viewfinder and LCD monitor.

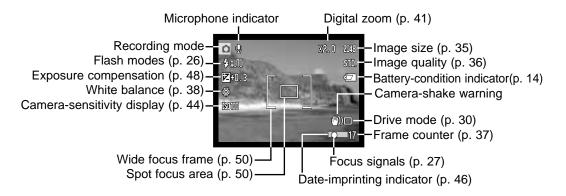


To zoom in on the subject, push the zoom lever up.

To zoom out, push the zoom lever down.

The digital-zoom function can double the power of the lens. The digital zoom is activated in the custom section of the recording-mode menu (p. 28).

#### LCD monitor display - recording mode



#### Camera-shake warning



If the shutter speed falls below the point where the camera can be hand held safely, the camera-shake warning indicator will appear on the monitor and the viewfinder indicator lamp will turn green and blink slowly. Camera shake is slight blurring caused by subtle hand

motion and is more pronounced at the telephoto position of the lens than at the wide-

angle position. 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.



Turn the camera on and slide the mode switch to the recording position.



Place the subject within the focus frame on the LCD monitor or center the subject in the viewfinder.

- The focus-lock function (p. 24) can be used with off-center subjects.
- If the subject is closer than 1m (3ft.) at the zoom lens' wideangle position or 3m (10ft) at the telephoto position, only use the LCD monitor to frame the subject.
- The spot focus area can be used for focusing; press the enter button for about 1 second to activate the area (p. 50).

Press the shutter-release button partway down (1) to lock the focus and exposure.

 The focus signals (p. 25) on the monitor and the indicator lamp next to the viewfinder will confirm that the image is in focus. If

the monitor focus signal is red or the indicator lamp is green and blinks quickly, the camera was unable to focus on the subject. Repeat the previous steps until the focus signal is white and the lamp glows steadily.



Press the shutter-release button all the way down (2) to take the picture.

- After the shutter releases, the indicator lamp next to the viewfinder will turn orange and blink indicating image data is being written to the memory card. Never remove a memory card while data is being transferred.
- The image can be previewed after it is captured by continuing to hold down the shutter-release button. This function is disabled if the monitor is off. Instant playback also can be used (p.42).

#### Focus lock

The focus-lock function is used when you want to compose the image with the subject 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. This function is controlled with the shutter-release button.



Place the subject within the monitor focus frame or center the subject in the viewfinder. Press and hold the shutter-release button partway down to lock the focus.

The focus signal on the monitor and the viewfinder indicator lamp will indicate if the focus is locked.





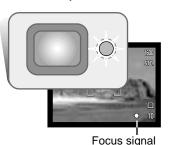
Without lifting your finger from the shutter-release button, recompose the subject within the image area. Press the shutter-release button all the way down to take the picture.

#### Focus range

The focus range is 25cm (0.8ft.) to infinity. Both the LCD monitor and viewfinder can be used to frame the subject. However, because of parallax, only the monitor's live image will be accurate with subjects closer than 1m (3ft.) at the zoom lens' wide-angle position or 3m (10ft) at the telephoto position.

#### Focus signals

This digital camera has a quick, accurate autofocusing system. The focus icon in the lower right corner of the LCD monitor and the indicator lamp next to the viewfinder indicate the focus status. The shutter can be released regardless if the camera can focus on the subject or not.



**Focus confirmed** - the LCD monitor focus signal is white and the viewfinder indicator lamp is green and steady.

**Cannot focus** - the LCD monitor focus signal is red and the viewfinder indicator lamp is green and blinking quickly. When the AF system cannot focus, the focus is set to 20m (65.6ft) or 2m (6.5ft) when using the flash.

#### Special focusing situations

The camera may not be able to focus in certain situations. In these situations the focus-lock function (p. 24) can be used to focus on another object at the same distance as your main subject, and then the image can be recomposed to take the picture.



The subject is too dark.

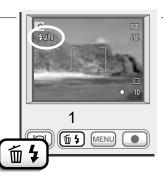
The subject in the focus frame is low in contrast.

Two subjects at different distances overlap in the focus frame.

The subject is near a very bright object or area.

#### Flash modes

The flash can be used when taking still images. To set the flash mode, simply press the flash mode/delete button (1) on the back of the camera until the desired mode is displayed. The active flash mode is displayed in the top left corner of the LCD monitor. When the camera is turned off and auto reset (p.40) is active, the flash mode is reset to autoflash with red-eye reduction if this mode was last set, if not the mode will be reset to autoflash. While the flash is charging, the shutter cannot be released.



The flash modes are displayed in the following order:



**Autoflash** - the flash fires automatically in low-light and backlit conditions. **Red-eye reduction** - the flash fires multiple bursts before the main flash burst to reduce red-eye; an effect caused by light reflected from the retina. Use in low-light conditions when taking photographs of people or animals, the pre-flashes contract the pupils of the subject's eyes.

**Fill-flash** - the flash fires with each exposure regardless of the amount of ambient light. Fill-flash can be used to reduce harsh shadows caused by strong direct light or sunshine.



**Flash cancel** - the flash will not fire. Use flash cancel when flash photography is prohibited, natural light is desired to illuminate the subject, or the subject is beyond the flash range. The camera-shake warning may appear when flash cancel is selected (p. 22).

**Night portrait** - for flash portraits at night. The camera automatically balances the flash and background exposures. When taking portraits, ask your subject not to move after the flash burst; the shutter will still be open for the background exposure. The red-eye reduction function is used with night portrait.



#### Flash range - Automatic operation

The camera automatically controls the flash output. For well-exposed images, the subject must be within the flash range. Because of the optical system, the flash range is not the same at the lens' wide-angle position as it is at the telephoto position. The flash ranged can be changed with camera sensitivity (ISO), see page 44.

Wide-angle position	Telephoto position
0.25m ~ 3.2m (0.8 ft. ~ 10.5 ft.)	0.25m ~ 2.5m (0.8 ft. ~ 8.2 ft.)

#### Flash signals

The indicator lamp next to the viewfinder indicates the status of the flash. When the lamp is red and blinks quickly, the flash is charging and the shutter will not release. When the lamp turns green, the flash is charged and ready to fire.



#### Navigating the recording-mode menu

Camera operations and recording functions are controlled on the menu. Navigating the menu is simple. The menu button turns the menu on and off. The zoom lever and left and right keys control the cursor and change settings on the menu. The enter button selects menu options and sets adjustments.

**MENU** To activate the recording-mode menu, press the menu button.



The "Basic" tab at the top of the menu will be highlighted. Use the left/right keys to highlight the appropriate menu tab; the menus will change as the tabs are highlighted.



When the desired menu section is displayed, use the zoom lever to scroll through the menu options. Highlight the option whose setting needs to be changed.



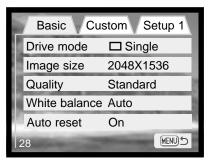
With the menu option to be changed highlighted, press the right key; the settings will be displayed with the current setting indicated by an arrow.

To return to the menu options, press the left key.



Use the zoom lever to highlight the new setting.

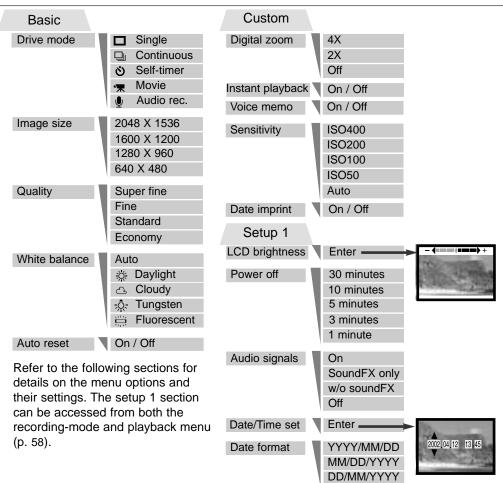
If "Enter" is displayed, press the enter button to display the setting screen.





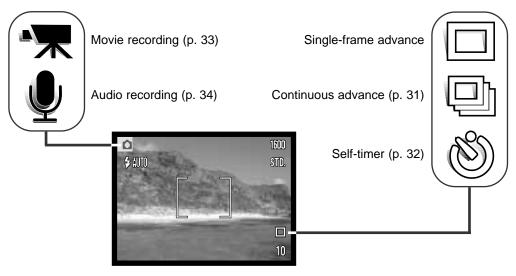
Press the enter button to select the highlighted setting.

Once a setting has been selected, the cursor will return to the menu options and the new setting will be displayed. Changes can continue to be made. To return to the recording mode, press the menu button.



#### Drive modes

The drive modes control the rate and method images are captured. Icons indicating the selected drive mode appear on the monitor. The drive mode is selected in the basic section of the recording-mode menu (p. 28). If auto reset (p.40) is active, the drive mode is reset to single-frame advance when the camera is turned off.



#### Single-frame advance



Single-frame advance allows only one image to be captured each time the shutter-release button is pressed. This is the camera's default setting.

#### Continuous advance

The continuous-advance drive mode allows a series of images to be captured while holding down the shutter-release button. The number of images that can be captured at one time and the rate of capture depend on the image-quality and image-size setting. With the image-size setting of 2048 X

1536, the maximum rate of capture is 1.6 fps. If the image quality is set to super fine (p. 36) only one frame can be captured at a time. Continuous advance is selected in the basic section of the recording-mode menu (p. 28).

Compose the picture as described in the basic recording operation section (p. 23). Press the shutter-release button partway down to lock

the exposure and focus for the series. Press and hold the shutter-

release button all the way down (1) to begin taking pictures. When the shutter-release button is pressed and held, the camera will begin recording images until the maximum number has been taken or the shutter button is released. The built-in flash can be used, but the rate of capture is reduced because the flash must recharge between frames. Date imprinting (p.46) also reduces the rate of capture. The frame counter is adjusted after the series has been taken while the images are being saved.



The chart lists the maximum number of images that can be captured with different imagequality and image-size combinations.

Image	
Quality Size 1536 1200 960 480	
Fine 6 9 15 56	
Standard 11 19 29 104	ļ
Economy 23 37 56 178	}

#### Self-timer



Used for self-portraits, the self-timer will delay the release of the shutter for approximately ten seconds after the shutter-release button is pressed. The self-timer drive mode is selected in the basic section of the recording-mode menu (p. 28).

With the camera on a tripod, compose the picture as described in the basic recording operation section (p. 23). Focus lock (p.24) can be used with off-center subjects. Press the shutter-release button partway down to lock the exposure and focus (1). Press the shutter-release button all the way down to begin the countdown (2). Because focus and exposure are determined when the shutter-release button is pressed, do not stand in front of the camera when taking a self-timer image. Always confirm the focus with the focus signals

Always confirm the focus with the focus signals before beginning the countdown (p. 25).

During the countdown, the self-timer lamp on the front of the camera (3) will start to blink and is accompanied by an audio signal. A few seconds before the exposure, the self-timer lamp will blink rapidly. The lamp will glow steadily just before the shutter fires. To stop the countdown, press the zoom lever. To stop the countdown and cancel the self-timer, press the main switch. The drive mode will be reset to single-frame advance after the exposure. The audio signal can be turned off in the setup menu.

#### Movie recording



The movie-recording drive mode is selected in the basic section of the recording-mode menu (p. 28). Movie clips up to approximately thirty-five seconds in length with audio can be recorded. The movie image is 320 X 240 pixels (QVGA) and is recorded at a rate of around 340KB/s.

Approximately one 41-second movie clip can be stored on one 16MB memory card.

Shooting digital video is simple. Frame the picture on the LCD monitor. Press and release the shutter-release button to begin recording (1); "Rec" will be displayed during recording. The camera will continue to record until the recording time is used or the shutter-release button is pressed again.

When recording, the frame counter will countdown the recording time. Take care not to cover the microphone while recording. During recording, focus is locked and the optical zoom is disabled. However, a stepless 4X digital zoom can be used with the zoom lever. The optical zoom position, exposure compensation, and white balance must

After recording, a screen will appear indicating the movie clip is being saved to the memory card. Never remove the memory card or disconnect the power supply

while the clip is being saved.

be set before recording.

Recording
movie
the
emove

Stand-by

Maximum recording time for the next clip.

•Rec ———Recording indicator

Remaining recording time

Saving to card.

 Saving to card.
 Saving to card.
 Saving to card.

#### Audio recording



30 minutes of audio can be recorded without an image. The audio-recording drive mode is selected in the basic section of the recording-mode menu (p. 28). When the function is active, the live view is replaced with a blue screen.

Approximately 31 minutes of audio can be stored on one 16MB memory card. Audio is recorded at approximately 8KB/s.

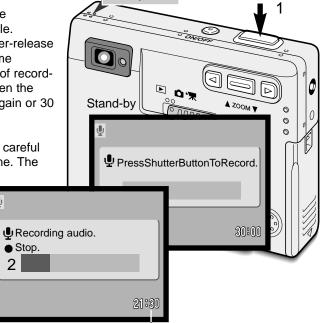
Microphone

Recording

In stand-by, the monitor displays the approximate recording time available. To begin recording, press the shutter-release button (1). A bar graph and the frame counter (2) will display the amount of recorded time. The recording will stop when the shutter-release button is pressed again or 30 minutes limit has elapsed.

When making audio recordings, be careful not to touch or cover the microphone. The quality of the recording is proportional to the subject to microphone distance. For best results, hold the camera

approximately 20cm (8in) from vour mouth.



Recording countdown

#### Image size



Changing image size affects the number of pixels in each image. The greater the image size, the larger the file size. Choose image size based on the final use of the image - smaller images will be more suitable for web sites whereas larger sizes will produce higher quality prints. Image size must be set before the picture is taken. Image size is set in the basic section of the recording-mode menu (p. 28).

Four image sizes are available: 2048 X 1536 (FULL), 1600 X 1200 (UXGA), 1280 X 960 (SXGA), and 640 X 480 (VGA). Image size is defined by the image's horizontal and vertical dimensions in pixels. The selected image-size setting is displayed on the LCD monitor by the horizontal dimension only.

If the image size is changed, the frame counter will display the approximate number of images that can be recorded at that setting on the installed memory card. One memory card can contain images with differing sizes.

#### Image quality

This camera has four image-quality settings: super fine, fine, standard, and economy. Always select the desired setting before taking the picture. Image quality is set in the basic section of the recording-mode menu (p. 28).

Image quality controls the rate of compression, but has no effect on the number of pixels in the image. The higher the image quality, the lower the rate of compression and the larger the file sizes. If the economical use of the memory card is important, use the economy mode. Standard image quality is sufficient for normal usage. The superfine mode will produce the highest quality image and the largest image files.

File formats vary with the image quality setting. Super fine images are saved as a TIFF file. Fine, standard, and economy images are formatted as JPEG files.

If the image quality is changed, the LCD monitor will display the approximate number of images that can be recorded at that setting on the installed memory card. One memory card can contain images with differing qualities.

LCD monitor display		File type
S. FIN	Super fine - the highest-quality image.	TIFF
FINE	Fine - high-quality image.	JPEG
STD	Standard - the default setting.	JPEG
ECON	Economy - the smallest file sizes.	JPEG

#### The frame counter and memory card capacity

The number of images that can be stored on a memory card is determined by the size and type of card and the file size of the images. The actual file size is determined by the scene; some subjects can be compressed further than others.

Approximate file sizes.				
Image size quality		1600 X 1200	1280 X 960	640 X 480
Super fine	9.2MB	5.5MB	3.5MB	0.91MB
Fine	1.6MB	0.95MB	0.61MB	0.17MB
Standard	0.80MB	0.48MB	0.32MB	0.09MB
Economy	0.40MB	0.25MB	0.17MB	0.05MB
Approximate card capacity for an 16MB memory card.				
Super fine	1 image	2 images	3 images	15 images
Fine	9 images	15 images	23 images	82 images
Standard	18 images	29 images	45 images	150 images
Economy	36 images	56 images	82 images	226 images

The frame counter indicates the approximate number of images that can be stored on the memory card at the camera's image quality and size settings. If the settings are changed, the frame counter adjusts accordingly. Because the calculation is based on approximate file sizes, the actual image taken may not change the counter or may decrease it by more than one.

When the frame counter displays three red zeros and card-full message appears, it indicates no more images at the image size and quality settings can be captured. Changing the image size or quality settings may allow more images to be captured.

#### White balance

White balance is the camera's ability to make different types of lighting appear neutral. The effect is similar to selecting daylight or tungsten film, or using color compensating filters in conventional photography.

One automatic and four preset white-balance setting are available with still image and movie recording. When one of the preset white-balance settings is selected, an icon will be displayed on the LCD monitor to indicate the active white-balance setting. White balance is set in the basic section of the recording-mode menu (p. 28). When auto reset (p.40) is active, the white balance will be reset to automatic white balance when the camera is turned off.



#### Automatic white balance

The automatic white balance compensates for the color temperature of a scene. In most cases, the auto setting will balance the ambient light and create beautiful images, even under mixed-lighting conditions. When the built-in flash is used, the white balance is set for the color temperature of the flash.

#### **Shooting tips**

White balance cannot correct high-energy vapor lighting: sodium-vapor (yellow highway lights), or mercury vapor. For portraits under these lighting conditions, the flash can be used to overpower the ambient light. With landscapes containing these types of lights, set the white balance to the preset daylight setting.

#### Preset white balance

Preset white-balance settings must be set before the image is taken. Once set, the effect is immediately visible on the monitor.

To record the ambient light, set the flash mode to flash cancel (p. 26). The built-in flash can be used with preset white-balance, but will create a pinkish or blueish cast with the fluorescent and tungsten settings. The flash is daylight balanced and will produce good results with the daylight and cloudy settings.



Daylight - for outdoor and sunlit subjects.



Cloudy - for overcast outdoor scenes.



Tungsten - for incandescent lighting: household filament light bulbs.



Fluorescent - for fluorescent lighting: office ceiling lights.

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#### Auto reset

When auto reset is active, the following functions return to their program setting when the camera is turned off:

Function	Reset to	Page
Flash mode*	Auto	26
Drive mode	Single-frame advance	30
White balance	Auto	38
Camera sensitivity	Auto	44
LCD monitor	Full display	52
Spot focus area	Wide focus frame	50

<sup>\*</sup>The flash mode is reset to autoflash with red eye reduction if autoflash with red eye reduction was last set, if not the mode will be reset to autoflash. See page 26 for information on flash modes.

Auto reset is initially active. To prevent the camera resetting, this function can be turned off in the basic section of the menu. However, the camera will reset it the battery is removed for an extended period. An internal battery will protect the clock, calender, and camera settings for more than 24 hours if the camera is used for at least 5 minutes before the battery is removed.

Exposure compensation will be disabled when the auto reset function is active and any previous exposure-compensation setting is canceled.

#### Digital zoom

Assisting the optical zoom is a 2X and 4X digital zoom. The digital zoom is activated in the custom section of the recording-mode menu (p. 28).

The digital zoom increases the magnification of the greatest telephoto setting of the optical zoom in 0.2 steps up to 2X or 4X. Although the images recorded with the digital zoom are interpolated to the set image size, the quality of the images may not be equal to images taken without the digital zoom; the greater the power of the digital zoom the lower the image quality. The effect of the digital zoom is visible on the LCD monitor only. The digital-zoom function is canceled if the LCD monitor is turned off (p. 52).



Activate the digital zoom in the custom section of the recording mode menu.

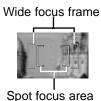
 The digital zoom will remain active until reset on the menu.

At the maximum telephoto position, press the zoom lever up to engage the digital zoom.

- The zoom magnification will be displayed in the top right corner of the monitor.
- To zoom out, press the zoom lever down.

When using the movie-recording drive mode, the 4X digital zoom is active even when the 2X zoom is set.

When the digital zoom is active, the wide focus frame and spot focus area (p.50) are enlarged.



#### Instant playback

After a still image is captured, it can be displayed on the monitor for two seconds before being saved. Instant playback shows the last frame in the series when used with the continuous-advance drive mode (p. 31). When the LCD monitor is turned off (p. 52), it will automatically activate for the instant playback period.

Instant playback can be activated in the custom section of the recording-mode menu (p. 28). When used with voice memo, the audio recording will begin after the image is played back.



#### Camera notes

Images can be previewed immediately after they have been captured regardless if instant playback is active or not. Simply continue to hold down the shutter-release button after taking the picture to display the image on the monitor. Release the shutter button to end the playback. This function is disabled if the monitor is turned off or the continuous advance, movie, or the self-timer drive mode is used.

#### Voice memo



Voice memo allows an audio track up to fifteen second to be recorded with a still image. The function is activated in the custom section of the recording-mode menu (p. 28). When the function is active, the white microphone icon is displayed on the LCD monitor. The voice memo must be set before taking a picture. It will remain in effect until reset. When the LCD monitor is turned off (p. 52), it will automatically activate for the voice-memo period.

After an image is captured, a screen will appear indicating the audio recording has started. A bar graph (1) will display the amount of recording time remaining. To stop the recording, press the shutter-release button or enter button (2). The recording will automatically stop when the fifteen-second limit has elapsed.

Voice memo is attached to the last image of a continuous-advance series (p. 31). When played back, images with voicememo audio tracks have a note icon displayed with them (p. 55).

When making audio recordings, be careful not to touch or cover the microphone. The quality of the recording is proportional to the subject to microphone distance. For best results, hold the camera approximately 20cm (8in) from your mouth.



Remaining recording time

#### Camera sensitivity - ISO

Four camera sensitivity settings can be selected with a still image: Auto, 50, 100, 200, 400; the numerical values are based on an ISO equivalent. ISO is the standard used to

indicate film sensitivity: the higher the number, the more sensitive the film. Sensitivity can be activated in the custom section of the recording-mode menu

The auto setting automatically adjusts the camera sensitivity to the light conditions between ISO 50 and ISO 160. When any other setting than auto is used, "ISO" and the set value will appear on the LCD monitor.



A specific sensitivity setting can be selected. As the

ISO value doubles, the camera sensitivity doubles. Like grain in silver-halide film that increases with speed, noise increases with the sensitivity in digital imaging; an ISO setting of 50 will have the least noise and 400 will have the most.

#### Flash range and camera sensitivity

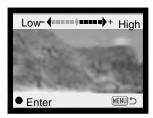
Because of the optical system, the flash range is not the same at the lens' wide-angle position as it is at the telephoto position.

ISO setting	Flash range ( wide angle)	Flash range ( telephoto )
AUTO	0.25m ~ 3.2m (0.82ft. ~ 10.5ft)	0.25m ~ 2.5m (0.82ft. ~8.2ft)
50	0.25m ~ 1.8m (0.82ft. ~ 5.9ft)	0.25m ~ 1.4m (0.82ft. ~4.6ft)
100	0.25m ~ 2.5m (0.82 ft. ~8.2 ft)	0.25m ~ 2.0m (0.82ft. ~6.6ft)
200	0.25m ~ 3.6m (0.82 ft. ~11.8 ft)	0.25m ~ 2.8m (0.82ft. ~9.2ft)
400	0.25m ~ 5.1m (0.82 ft. ~16.7 ft)	0.25m ~ 4.0m (0.82ft. ~13.1ft)

#### LCD brightness

The brightness of the LCD monitor can be set in eleven levels. After selecting the LCD brightness option and pressing the enter button on the menu (p. 28, 58), the LCD brightness screen will be displayed. Pressing and holding the display button will also active the LCD brightness screen.

Use the left and right keys (1) to adjust the brightness level; the monitor image will change accordingly. To set the level, press the enter button (2); the camera will return to the recording or playback mode. The LCD brightness level will affect both modes.







#### Auto-power-off menu settings

To conserve battery power, the camera will shut down if an operation is not made within a certain period. To restore power, press the main switch. The length of the autopower-off period can be changed in the setup 1 section of the recording and playbackmode menu (p. 28, 58): 1, 3, 5, 10, and 30 minutes. The length of the auto-power-off period is fixed at 10 minutes when the camera is connected to a computer.

#### Audio signals

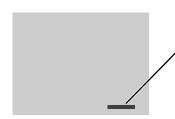
The camera's audio signals can be turned off and on in the setup 1 section of the recording and playback-mode menu (p. 28, 58). When on, both tone signals and sound effects are used. The sound effect simulates a film camera when the shutter is released. The sound effects and tones can be turned off independently of each other.

Menu setting	
Off	All audio signals are turned off.
SoundFX only	Shutter effect only. No tone signals during operation.
w/o sound FX	Tone signals only to indicate the camera operations.
On	Shutter effect and tone signals.

#### Imprinting the date and time

The date of recording can be printed directly on the image. The imprinting function must be activated before the image is taken. Once activated, the date will continue to be imprinted until the function is reset: a yellow bar is displayed next the frame counter on the monitor to indicate the imprinting function is active. Date imprinting is activated in the custom section of the recording-mode menu.





The date is imprinted in the lower right corner of the image when viewed horizontally. It is printed directly on the photograph writing over the image information. The date can be imprinted in three formats, see next page.

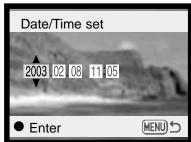
#### **Camera Notes**

Every time a still image is recorded, it is stored with an exif tag that contains the date and time of recording as well as shooting information. This information can be viewed on a computer with the DiMAGE Viewer software.

#### Setting the date and time

It is important to accurately set the clock. When a recording is made, the date and time of the recording are saved with the file and are displayed in playback mode or with the DiMAGE Viewer software included on the CD-ROM. The date and time are set in the setup 1 section of the recording and playback-mode menu (p. 28, 58).

When the Date/Time-set option is selected and entered, the date/time screen will be displayed. The left and right keys (1) are used to select the item to be changed and the zoom lever (2) is used to change the value. From left to right, the screen shows the year, month, day, hour, and minute. When the date and time have been adjusted, set the clock by pressing the enter button (3). The menu button cancels the screen without applying any changes.









#### Setting the date format

The date format that is displayed can be changed: YYYY/MM/DD (year, month, day), MM/DD/YYYY (month, day, year), DD/MM/YYYY (day, month, year). Simply select the format and enter it by pressing the enter button; the new format will be displayed on the menu. The date format does not affect date folder names (p. 67). The date format is set in the setup 1 section of the recording and playback-mode menu (p. 28, 58).

#### Exposure compensation



The camera exposure can be adjusted to make the final picture lighter or darker by as much as ±2Ev in 1/3 increments with still image and movie recording. The exposure-compensation value will remain in effect until it has been reset.

The exposure compensation must be set before the image is captured. When setting the exposure compensation, the amount of compensation is shown next to the exposure-compensation icon on the monitor. When set to any value other than 0.0, the icon will remain on the LCD monitor as a warning. To set the exposure compensation, the monitor must be on.



Use the left and right keys (1) to adjust the exposure-compensation value.

- The LCD monitor will display the exposure-compensation icon and value.
- Change in exposure compensation is visible in the live image on the monitor.

The adjustment in exposure will be automatically set after five seconds or when another camera button is pressed.

When auto reset is active, exposure compensation is disabled. Any exposure-compensation value set will also be canceled when the auto-reset function is turned on.

Sometimes the camera's exposure meter is deceived by certain subjects. Exposure compensation can be used in these situations. For example, a very bright scene, such as a snowy landscape or a white sandy beach, can appear too dark in the captured image. Before taking the picture, adjusting the exposure by +1 or +2 Ev will result in an image with normal tonal values.

In this example, the dark scene appears bright and washedout on the LCD monitor. By decreasing the exposure by -1.5 Ev, the richness of the sunset is preserved.

#### What is an Ev?

Ev stands for exposure value. A change of one Ev will adjust the exposure calculated by the camera by a factor of two.

Change in Ev	Adjustment to exposure
+2.0 Ev	4X as much light
+1.0 Ev	2X as much light
0.0 Ev	Calculated exposure
–1.0 Ev	1/2 as much light
–2.0 Ev	1/4 as much light

#### Spot AF

The spot AF is used for selective focusing. Both focus and exposure are determined with the spot focus area.

3 京 宋 ▲ ZOOM ▼ ▶ 00 (°00000 MENU 
MENU

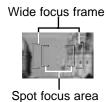
Press and hold the enter button (1) to switch between the wide focus frame and the spot focus area. Place the subject inside the spot focus area (2) and pressing the shutter-release button partway down to lock the focus and the exposure. Focus lock (p.24) is active for off-center compositions. The focus signals (p.25) will confirm the image is in focus. Press the shutter release button all the way down to take the picture (3).

When the LCD monitor is off, the AF system cannot be switched between wide and spot AF; the last AF mode set will be active. When the monitor display is live image only, switching between the wide and spot AF modes resets the display mode to full.

When auto reset (p.40) is active, the AF mode will reset to the wide focus frame when the camera is turned off.

The spot focus area can be used with movie recording. The focus area must be set before recording.

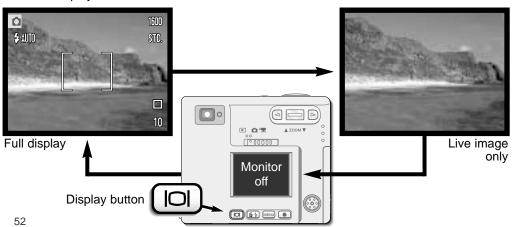
When used with the digital zoom (p.41), spot focus area is enlarged.



#### Display button - recording mode

The display-information button controls the LCD monitor display. The display cycles to the next position each time the button is pressed: full display, live image only, and monitor off. If the display button is pressed and held, the LCD-brightness adjustment screen will appear, see page 45.

Battery power can be conserved by turning the monitor off and using the viewfinder to take pictures. However, because of parallax, the monitor should be used for subjects closer than 1m (3ft.) at the zoom lens' wide-angle position or 3m (10ft) at the telephoto position. When the flash-mode or menu button is pressed, the monitor will automatically turn on. The battery-condition and date-imprinting indicators can appear on the live image only display. The digital zoom is canceled and the AF area and exposure-compensation setting is fixed when the monitor is off. The monitor cannot be turned off in audio or movie recording. When the LCD monitor is off, it will automatically activate for the instant playback period. When auto reset is active, the LCD monitor will be reset to the full display when the camera is turned off.



#### A short guide to photography

Photography can be a rewarding pursuit. This guide is an introduction to some basic photographic principles.

The zoom lens does not only affect how large the subject is in the picture, but it also influences the depth of field and perspective. Depth of field is the area between the closest object in focus and the furthest object in focus. As the lens zooms in (telephoto position) to the subject, the depth of field becomes shallower, separating the subject from the background. Many portraits are taken with telephoto lenses. Zooming the lens

out to the wide-angle position makes both the foreground and background appear sharper. Usually landscape photographs take advantage of the large depth of field of wide-angle lenses.

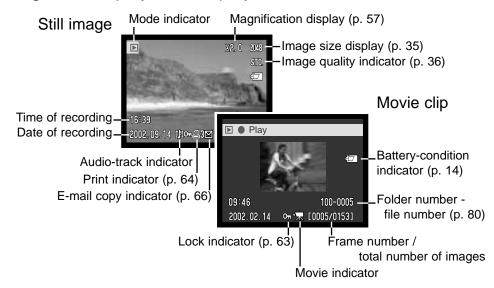


Wide-angle lenses also create a strong perspective which gives a sense of depth in the image.
Telephoto lenses compress the space between the subject and background and create a weak perspective.

### PLAYBACK MODE

This section details how to view and edit images on the camera. Basic operation of the playback mode is covered from page 54 to 60. Detailed descriptions of the playback menu settings follow the menu navigation section.

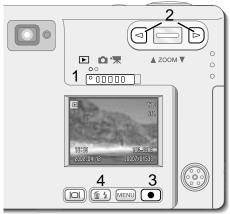
#### Single-frame playback display



An audio recording (p. 34) has no image data and so the LCD monitor will show a blue screen to indicate the audio file. The time and date of recording, lock status, frame number, and folder and file number are displayed.

#### Viewing images and playing back audio recordings

Playing back still images, movie clips, and audio recordings is simple. Slide the mode switch to the playback position (1) and use the left and right keys to scroll through the recordings on the memory card (2).





A note icon at the bottom of the monitor indicates the image has an audio track. To play back the audio track, press the enter button (3).

- To cancel a voice memo or audio caption, press the menu button. To pause and restart an audio recording, press the enter button. Pressing the menu button cancels the playback.
- During playback, the zoom lever adjusts the volume.
   The left key rewinds the audio track and the right key forwards in audio recording.



A movie-camera icon at the bottom of the monitor indicates a movie clip. To play back the movie clip, press the enter button (3).

- To pause and restart the movie playback, press the enter button. Pressing the menu button cancels the playback.
- During playback, the zoom lever adjusts the volume.

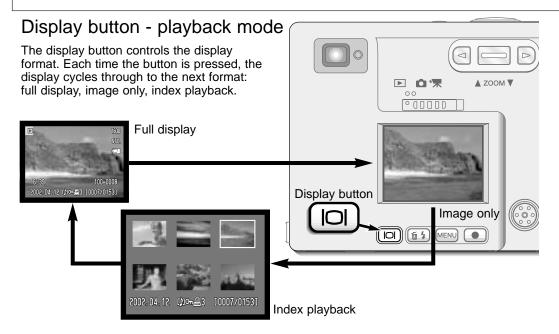
#### Deleting single images

To delete a displayed file, press the flash-mode/delete button (4). A confirmation screen will appear.

Use the left/right keys to highlight "YES." "NO" will cancel the operation.

Press the enter button (3) to delete the file.





In index playback, the left and right keys, and zoom lever moves the yellow border around the index thumbnails. When the image is highlighted with the border, the date of recording, audio-track indicator, the lock and printing status, e-mail copy indicator and the frame number of the image are displayed at the bottom of the screen. The accompanying audio track of the highlighted image can be played by pressing the enter button. When the display information button is pressed again, the highlighted image will be displayed in the single-frame playback mode.

#### Enlarged playback

In single-frame playback, a still image can be enlarged in six steps for closer examination: 1.5X, 2.0X, 2.5X, 3.0X, 3.5X, and 4.0X.



With the image to be magnified displayed, press the zoom lever up to activate the enlarged playback mode.

• The degree of magnification is displayed on the LCD monitor.



Pressing the zoom lever up increases the image magnification. Pressing the zoom lever down decreases the image magnification.



 The display button switches between showing the full display and image only.



To scroll the image, press the enter button.

 Pressing the enter button switches between the enlargedplayback and scroll screens.





Use the left and right keys, and the zoom lever to scroll the image.



 To exit the enlarged playback mode, press the menu button.

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#### Navigating the playback-mode menu

In playback mode, simply press the menu button to activate the menu. The menu is used to edit images and control camera operations.

Activate the playback-mode menu with the menu button.



The "Basic" tab at the top of the menu will be highlighted. Use the left/right keys to highlight the appropriate menu tab; the menus will change as the tabs are highlighted.



When the desired menu section is displayed, use the zoom lever to scroll through the menu options. Highlight the option whose setting needs to be changed.



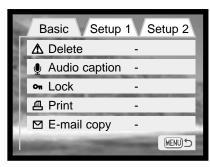
With the menu option to be changed highlighted, press the right key; the settings will be displayed with the current setting indicated by an arrow.

To return to the menu options, press the left key.



Use the zoom lever to highlight the new setting.

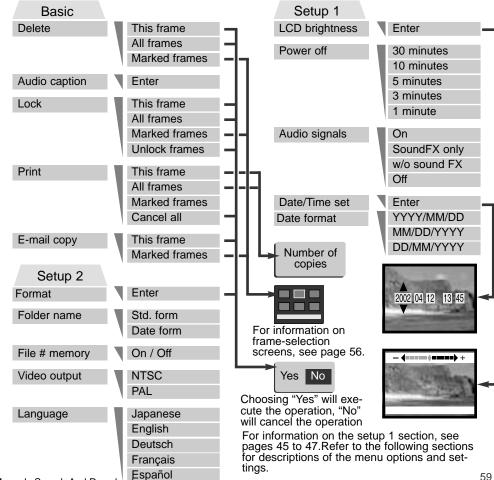
If "Enter" is displayed, press the enter button to display the setting screen.





Press the enter button to select the highlighted setting.

Once a setting has been selected, the cursor will return to the menu options and the new setting will be displayed. Changes can continue to be made. To return to the playback mode, press the menu button.



#### Frame-selection screen

When a marked-frames setting is chosen on the menu, the frame selection screen will appear. This screen allows multiple image and audio files to be chosen.



The left and right keys move the yellow border to select the frame.



The menu button cancels the screen and any operation made.





Pressing the zoom lever up selects the frame; when selected, an icon will appear next to the frame. Pressing the zoom lever down deselects the frame removing the icon.



The garbage-can icon indicates the frame is selected for deletion.



The key icon indicates the image or audio file is locked or selected to be locked.



The printer icon indicates the image is selected for printing. The number next to the icon shows if two or more copies are requested.



The check icon indicates the image is selected to be copied for e-mail.

Icons indicating the file type of the thumbnail image are displayed for movie, audio, and e-mail copy files when using the print or e-mail copy selection screens.

#### Audio captioning

A still image can have a fifteen-second audio caption attached to it. This function will also replace a voice-memo audio track recorded with an image. Audio captions cannot be attached to movie clips, nor can they over rewrite audio recordings.



☑ E-mail copy

Audio caption Enter

Display the image to which the audio caption will be attached. If the image is locked, unlock it using the basic section of the playback menu (p. 58).

On the playback menu, highlight the "Enter" setting in the audio-caption option.

Press the enter button (1) to start recording.

 If an audio track is already attached to the image file, a confirmation screen will appear. Choosing and entering "Yes" will start the audio caption recording replacing the previous audio track. "No" will cancel the audio-caption operation.



The audio caption can be stopped during the fifteen-second recording period by pressing the enter button (2).

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#### Deleting image and audio files

Deleting permanently erases the image or audio file. Once deleted, a file cannot be recovered. Care should be taken when deleting files.



Single, multiple, or all image or audio files on the memory card can be deleted with the playback-mode menu. Before a file is deleted, a confirmation screen will appear; choosing "Yes" will execute the operation, "No" will cancel the operation. Single files can also be deleted with the flash-mode/delete button in the playback-mode (p.55).

The delete option has three settings:

This frame - The image or recording displayed or highlighted in playback mode will be deleted.

All frames - All unlocked files on the memory card will be deleted.

Marked frames - To delete multiple image or audio files. When this setting is chosen, the frame-selection screen will be displayed. Use the left and right keys to highlight the first file to be deleted. Pressing the zoom lever up will mark the frame with the garbage-can icon. To deselect a file for deletion, highlight it with the yellow border and press the zoom lever down; the garbage-can icon will disappear. Continue until all the files to be deleted are marked. Press the enter button to continue (a confirmation screen will appear), or press the menu button to cancel the operation and return to the playback menu. On the confirmation screen, highlighting and entering "Yes" will delete the marked files.

The delete function will only erase unlocked image or audio files. If a file is locked, it must be unlocked before it can be deleted. If an image file has a voice memo or audio caption attached, both the image and audio file will be deleted.

#### Locking image and audio files



Single, multiple, or all image or audio files on the memory card can be locked. A locked file cannot be erased by a playback menu delete function. Important images should be locked.

The lock option has four settings:

**This frame** - The frame displayed or highlighted in playback mode will be locked. If the this-frame option is used with a locked image, the image will be unlocked.

All frames - All image and audio files on the memory card will be locked.

Marked frames - To lock or unlock multiple files. When this setting is chosen, the frame-selection screen will be displayed. Use the left and right keys to highlight the image or audio recording to be locked. Pressing the zoom lever up will mark the frame with the key icon. To unlock a file, highlight it with the yellow border and press the zoom lever down; the key icon will disappear. Continue until all the files to be locked are marked. Press the enter button to lock the marked frames, or press the menu button to cancel the operation and return to the playback menu.

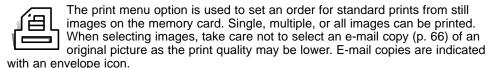
**Unlock frames** - All files in the folder will be unlocked. When selected, a confirmation screen will appear; highlighting and entering "Yes" will unlock all files on the card.

Locking an image will protect it from a delete function. However, the formatting function (p. 70) will erase all data on a memory card whether locked or not.

#### **About DPOF**

This camera is supported by DPOF version 1.1. DPOF (Digital Print Order Format) allows direct printing of still images from digital cameras. After the DPOF file is created, the memory card is simply taken to a photofinishing service or inserted into the card slot of DPOF compatible printers. When a DPOF file is created, a misc. folder is automatically made on the memory card to store it (p. 82).

#### Creating a DPOF print order



The print option has four settings:

This-frame - To create a DPOF file for the image displayed or highlighted in playback mode.

All-frames - To create a DPOF file for all still images on the memory card.

Marked frames - To chose a group of images to be printed or when the number of copies for each image varies. When selected, the frame selection screen will appear. Use the left and right keys to highlight an image to be printed. Pressing the zoom lever up will mark the image with the printer icon. The number next to the icon indicates the number of copies of that image will be printed. Pressing the zoom lever up will increase the number of copies, pressing the zoom lever down will decrease the number. A maximum of nine copies can be ordered. To deselect an image for printing, press the zoom lever down until the the number of copies reaches zero and the printer icon disappears. Continue until all the images to be printed are marked. Press the enter button to create the DPOF file, or press the menu button to cancel the operation and return to the playback menu.

**Cancel all** - To delete the DPOF print files. When selected, a confirmation screen will appear; highlighting and entering "Yes" will cancel the print order.

When the this-frame or all-frames setting is chosen, a screen will appear requesting the number of copies of each image; a maximum of nine copies can be ordered. Use the zoom lever to set the number of copies desired. If the all-frames setting was used to create a print order, any additional images saved afterwards on the memory card will not be included in the order. The print icon is displayed with selected images in playback mode. If more than one copy of the image is ordered, the number of copies will be displayed next to the icon.

After the pictures have been printed, the DPOF file will still remain on the memory card. The DPOF files must be canceled manually. DPOF files cannot be created for images captured with another camera. DPOF data created on other cameras will not be recognized.

#### Minolta History -



Innovation and creativity has always been a driving force behind Minolta products. The Electro-zoom X was purely an exercise in camera design. It was unveiled at Photokina in Germany in 1966.

The Electro-zoom X was an electronically controlled aperture-priority mechanical SLR with a built-in 30 - 120mm f/3.5 zoom lens giving twenty 12 X 17mm images on a roll of 16mm film. The shutter-release button and battery chamber are located in the grip. Only a few prototypes were built making it one of Minolta's rarest cameras.

#### E-mail Copy



E-mail copy makes a economy 640 X 480 (VGA) JPEG copy of an original still image so that it may be easily transmitted by e-mail. Images with voice memos are copied with their audio files. Copies of locked images are unlocked. DPOF information is not copied. Movie clips and audio files

cannot be copied, and E-mail copies cannot be recopied. The e-mail copy function is selected in the basic section of the playback-mode menu.

E-mail copy option has two settings:

**This-frame** - To copy the file displayed or highlighted in playback mode. Selecting this menu option will automatically start the e-mail copy routine.

**Marked frames** - To copy single or multiple files. When selected, the frame-selection screen will appear; highlight the file to be e-mail copied with the yellow border and then push the zoom lever up to mark it with the check icon. To deselect a file to be copied, highlight the selected thumbnail and push the zoom lever down; the check icon will disappear. Continue until all the files to be copied are marked. Press the enter button to start the e-mail copy routine.

If the memory card does not have the enough space to create the copy, or a movie, audio, or e-mail file is selected, a warning message will be displayed.

When the copy is made, a screen will appear to indicate the folder name containing the copied images. Press the enter button to compete the operation and return to the menu.

E-mail copy images are placed in a folder designated by EM. The e-mail copy images will be stored in the same folder until the number of images exceed 9,999. When more than 9,999 copies have been made, a new folder with a serial number one greater than the last folder will be made for the next 9,999 copies. See the memory card folder organization section on page 80. The e-mail copy indicator is displayed with copied image in playback mode

#### Folder name

All recorded images are stored in folders on the memory card. Folder names come in two formats: standard and date.

Standard folders have an eight character name. The initial folder is named 100MLT15. The first three digits are the folder's serial number, which will increase by one each time a new folder is created. The next three letters refer to Minolta, and the last two numbers indicate the camera used; 15 indicates a DiMAGE Xi.



A date folder name also starts with the three digit serial number and is followed by one register for the year, two register for the month, and two registers for the day: 101YMMDD. The folder 10121012 was created in 2002 on October 12<sup>th</sup>.



With the date folder format selected, when an image is recorded a new folder with the day's date will be created. All images recorded that day will be placed in that folder. Images recorded on a different day will placed in a new folder with the corresponding date. If the file number memory function is off, when a new folder is created, the serial number in the image-file name is reset to 0001. For more information on folder organization and file names, see page 82.

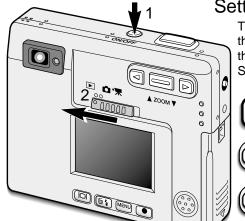
#### File Number (#) Memory

If file number memory is selected, when a new folder is created, the first file stored in the folder will have a number one greater than the last file saved. If the file # memory is disabled, the image file name will have a number one greater than the last image saved in the folder. File number starts from 0001 when all the frames are deleted, an empty card is inserted, or the folder is changed. File # memory does not affect E-mail copies.

If file number memory is active and the memory card is changed, the first file saved to the new card will have a number one greater than the last file saved on the previous card if the new card does not contain an image with a greater file number. If it does, the file number of the new image will be one greater than the greatest on the card.

To initialize a new memory card with the file numbers starting with "0001," turn off file number memory, insert a new card, and turn the camera off and on. The file number memory can be reactivated.

File number memory will reset it the battery is removed for an extended period. An internal battery will protect the clock, calender, and camera settings for more than 24 hours if the camera is used for at least 5 minutes before the battery is removed.



Setting the menu language

The menu language is set on the setup 2 section of the playback menu. Turn the camera on by pressing the main switch near the shutter-release button (1). Slide the mode switch to the playback position (2).

MENU Pres

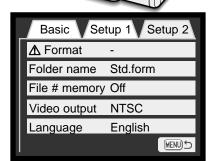
Press the menu button to active the playback menu.



Use the right key to highlight the setup 2 tab at the top of the menu.



Use the zoom lever to highlight the language menu option.



Playback menu: setup 2 section



Press the right key. The language settings will appear on the right side of the menu.



Use the zoom lever to select the language.



Press the enter button to set the selected language. The playback menu will be displayed.



Press the menu button to close the playback menu.

#### Formatting memory cards

When a memory card is formatted, all data on the card is erased.

The formatting function is used to erase all data on a memory card. Before formatting a card, copy the data to a computer or storage device. Locking images will not protect them from being deleted when the card is formatted. Always format the memory card using the camera; never use a computer to format a card.

When the format option is selected and entered, a confirmation screen will appear. Choosing "Yes" will format the card, choosing "No" will cancel the formatting operation. A screen will appear to indicate the card has been formatted.

If the unable-to-use-card message appears, the inserted card in the camera may need to be formatted. A memory card used in another camera may have to be formatted before being used.

#### Video output

Camera images can be displayed on a television (p. 71). The video output can be changed between NTSC and PAL. North America uses the NTSC standard and Europe uses the PAL standard. Check which standard is used in your region to play back images on your television set.

#### Viewing images on a television

It is possible to view camera images on your television. The camera has a AV-out terminal to make the connection using the supplied AV cable. The camera is compatible with the NTSC and PAL standards. The video-output setting can be checked and set in the setup 2 section of the playback menu (p. 58).

- 1. Turn off the television and the camera.
- 2. Insert the AV cable into the camera's AV-out / USB terminal.
- 3. Plug the other end of the AV cable into the video and audio input terminals on the television.
  - The yellow plug is for the video output. The white plug is for the monaural audio output.
- 4. Turn the television on.
- 5. Set the television to the video channel.
- Turn the camera on and slide the mode switch to the playback position.
  - The camera's monitors will not activate when the camera is attached to a television. The playbackmode display will be visible on the television screen.
- 7. View images as described in the playback section.
  - Use the television controls to adjust the volume of the audio playback.

# DATA-TRANSFER MODE

Read this section carefully before connecting the camera to a computer. Details on using and installing the DiMAGE Viewer software are found in the supplied software manual. The DiMAGE manuals do not cover the basic operation of computers or their operating systems; please refer to the manual supplied with your computer.

### DiMAGE Xi system requirements

For the camera to be connected directly to the computer and used as a mass-storage device, the computer must be equipped with a USB port as a standard interface. The computer and the operating system must be guaranteed by their manufacturers to support USB interface. The following operating systems are compatible with the camera:

IBM PC / AT Compatible	Macintosh
Windows 98, 98SE, Me, 2000	Mac OS 8.6 ~ 9.2.2,
Professional, and XP.	Mac OS X 10.1 ~ 10.1.5

Check the Minolta web site for the latest compatibility information:

North America: http://www.minoltausa.com

Europe: http://www.minoltaeurope.com/pe/digital/languages\_\_stage.html

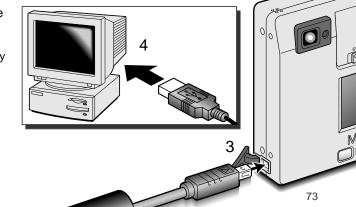
Users with Windows 98 or 98 second edition will need to install the driver software on the included DiMAGE software CD-ROM (p. 75). Users with Mac OS 8.6 will need to download and install a USB mass-storage device from the Apple web site (p. 78). No special driver software is required for other Windows or Macintosh operating systems.

Customers who have bought a DiMAGE 7, 5, S304, S404, 2330, or X digital camera and have installed the Windows 98 driver software must repeat the installation procedure. The updated version of the driver software included on the supplied DiMAGE software CD-ROM is required for the operation of the DiMAGE Xi with a computer. The new software will have no affect on the performance of the DiMAGE 7, 5, S304, S404, 2330, or X.

### Connecting the camera to a computer

A fully charged battery should be used when the camera is connected to a computer. The use of the AC adapter (sold separately) is recommended over the use of the battery. For users with Windows 98, 98SE, or Mac OS 8.6, read the respective sections on how to install the necessary USB driver before connecting the camera to a computer (Windows 98 - p. 75, OS 8.6 - p. 78).

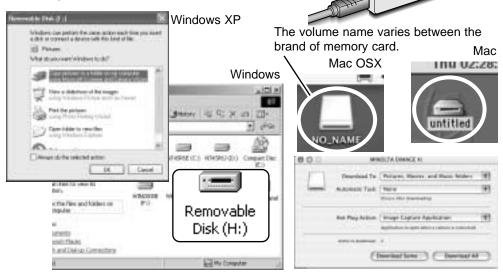
- 1 Start up the computer.
- The computer must be turned on before connecting the camera.
- 2 Insert the memory card into the camera.
  - Confirm that the correct card is in the camera. To change the memory card while the camera is connected to a computer, see page 79.
- 3 Remove the USB-port cover. Attach the smaller plug of the USB cable to the camera.
  - Make sure the plug is firmly attached.
- The USB-port cover is attached to the body to prevent loss.
- 4 Attach the other end of the USB cable to the computer's USB port.
  - Make sure the plug is firmly attached.
  - The camera should be connected directly to the computer's USB port.
     Attaching the camera to a USB hub may prevent the camera from operating properly.



5 Turn on the camera to initiate the USB connection.

 While the camera is connected to a computer, the data-transfer screen will be displayed.

When the camera is properly connected to the computer, a drive icon, or volume, will appear. When using Windows XP or Mac OS X, a window will open requesting instructions on what to do with the image data; follow the directions in the window.



If the computer does not recognize

the camera, disconnect the camera and restart the computer. Repeat the connection procedure above. For users with Windows operating systems, the diver software can be uninstalled in the event of an error during installation. See page 88 for instructions.

### Connecting to Windows 98 and 98SE

The driver needs only to be installed once. If the driver cannot be installed automatically, it can be installed manually with the operating system's add-new-hardware wizard; see the instructions on the following page. During installation, if the operating system requests the Windows 98 CD-ROM, insert it into the CD-ROM drive and follow the accompanying instructions on the screen. No special driver software is required for other Windows operating systems.

#### Automatic Installation



Before connecting the camera to the computer, place the DiMAGE software CD-ROM in the CD-ROM drive. The DiMAGE installer menu should automatically activate. To automatically install the Windows 98 USB driver, click on the starting-upthe-USB-device-driver-installer button. A window will appear to confirm that the driver should be installed; click "Yes" to continue.

When the driver has been successfully installed, a window will appear.

Click "OK." Restart the computer before connecting the camera (p. 73).



#### Manual installation

To install the Windows 98 driver manually, follow the instructions in the connecting-the-camera-to-a-computer section on page 73.

When the camera is plugged into the computer, the operating system will detect the new device and the add-new-hardware-wizard window will open. Place the DiMAGE software CD-ROM in the CD-ROM drive, Click "Next."



Choose to specify the location of the driver. The browse window can be used to indicate the driver location. When the location is shown in the window, click "Next."

 The driver should be located in the CD-ROM drive at :\Win98\USB.

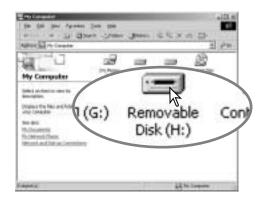


Choose the recommended search for a suitable driver. Click "Next."





The last window will confirm the driver has been installed. Click "Finish" to close the add new hardware wizard. Restart the computer.



The add new hardware wizard will confirm the location of the driver. Click "Next" to install the driver in the system.

- One of three drivers may be located: MNLVENUM.inf, USBPDR.inf, or USBSTRG.inf.
- The letter designating the CD-ROM drive will vary between computers.



Windows has finished installing the software that your new hardware device requires.



When the my-computer window is opened, a new removable-disk icon will be displayed. Double click on the icon to access the camera's memory card; see page 80.

### Connecting to Mac OS 8.6

To access this camera with a computer with Mac OS 8.6, the USB storage support 1.3.5.smi must be installed first. This software is supplied by Apple Computer, Inc. free of charge. It can be downloaded from the Apple web site at http://www.apple.com.

To download and install this software, follow the instruction on the Apple web site. Always read the attached terms and conditions before installing any new software.



USB Storage Support 1.3.5.smi

### QuickTime system requirements

QuickTime 5 is used for viewing movie clips and playing audio files. To install QuickTime, follow the instructions in the installer. Macintosh users can download the latest version of QuickTime free of charge from the Apple Computer web site: http://www.apple.com.

#### IBM PC / AT Compatible

Pentium-based computer

Windows 95, 98, 98SE, NT, Me, or 2000 Professional, XP

32MB or more of RAM

Sound Blaster or compatible sound card DirectX 3.0 or later recommended

### Auto power off - data-transfer mode

If the camera does not receive a read or write command within ten minutes, it will shut down to save power. When the camera shuts down, an unsafe-removal-of-device warning may appear on the computer monitor. Click "OK." Neither the camera or computer will be damaged in this operation. Unplug the USB cable and turn off the camera. Remake the USB connection by reattaching the cable and turning the camera on.

### Changing the memory card - data-transfer mode

Care should be taken when changing memory cards while the camera is attached to a computer. Data could be lost or damaged if the camera is not disconnected properly.

#### Windows 98 and 98SE

- 1. Turn off the camera.
- 2. Disconnect the USB cable.
- 3. Change the memory card.
- 4. Reconnect the USB cable.
- 5. Turn on the camera to remake the USB connection.



#### Windows Me, 2000 professional, and XP

- 1. Stop the USB connection using the unplug-or-eject-hardware routine (p. 74).
- 2. Turn off the camera.
- 3. Disconnect the USB cable.
- 4. Change the memory card.
- 5. Reconnect the USB cable.
- 6. Turn on the camera to remake the USB connection.

#### Macintosh

- 1. Stop the USB connection by dragging the drive icon into the trash (p. 75).
- 2. Turn off the camera.
- 3. Disconnect the USB cable.
- 4. Change the memory card.
- 5. Reconnect the USB cable.
- 6. Turn on the camera to remake the USB connection.

### Memory card folder organization

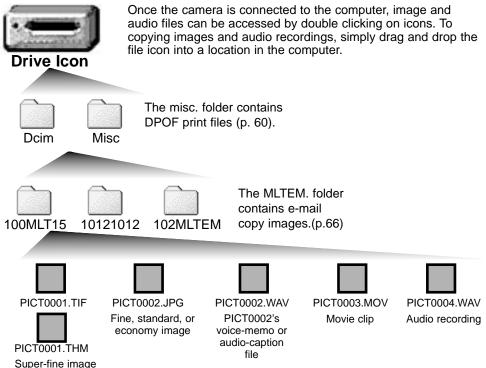


Image-file names begin with "PICT" followed by a four-digit file number and a tif, jpg, mov, or thm extension. Voice-memo and audio caption files have a wav extension and the file name corresponds to its image file. Audio recordings also use the wav extension. The thumbnail images (thm) are produced with super-fine images and are only used in camera operation.

Files and folders on the memory card can be deleted using the computer. Do not change the name of a file on the card or add a date to the card with a computer. Never format the memory card from the computer; always use the camera to format the card (p. 58, 70).

The number in the image file name may not correspond to the frame number of the image on the camera. As images are deleted on the camera, the frame counter will adjust itself to show the number of images on the memory card and reassign the frame numbers accordingly. The file numbers will not change when an image is deleted. When a new image is recorded, it will be assigned a number one greater than the largest file number in the folder.

When the file number exceeds 9,999, a new folder will be created with a number one greater than the greatest folder number on the memory card: e.g. from 100MLT15 to 101MLT15. When a DPOF file is created for a print order (p. 64), a misc. folder is automatically made for the file.

#### **Camera Notes**

Image files contain exif tag data. This data includes the time and date the image was recorded as well as the camera settings used. This data can be viewed with the camera or the DiMAGE Viewer software.

If an image is opened in a image-processing application that does not support exif tag data, and then the image is saved overwriting the original data, the exif tag information will be erased. When using software other than the DiMAGE Viewer, always rename the image file to protect the exif tag data.

### Disconnecting the camera from a computer

#### Windows 98 and 98SE

Confirm the indicator lamp is not lit. Turn off the camera and then disconnect the USB cable.



#### Windows Me, 2000 professional, and XP

S lo

To disconnect the camera, click once on the unplug-or-eject-hardware icon located on the task bar. A small window will open indicating the device to



Click on the small window to stop the device. The safe-to-removehardware window will open. Turn off the camera and then disconnect the USB cable.

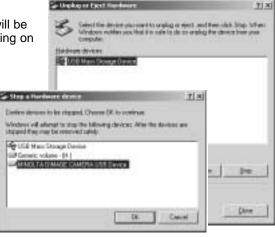


When more than one external device are connected to the computer, repeat the procedure above except right click on the unplug-or-eject-hardware icon. This will open the unplug-or-eject-hardware window after clicking on the small window indicating the unplug-or-eject-hardware routine.



The hardware devices to be stopped will be displayed. Highlight the device by clicking on it then click "Stop."

A confirmation screen will appear to indicate the devices to be stopped. Clicking "OK" will stop the device.



A third and final screen will appear to indicate the camera can be safely disconnected from the computer; click OK. Turn the mode dial to another position and then disconnect the USB cable.



#### Macintosh

Confirm the indicator lamp is not lit and then drag the mass-storage device icon and drop it into the trash.

Disconnect the USB cable and turn off the camera.

 If the USB cable is disconnected before performing the first step, an alert message will appear. Always complete the first step before disconnecting the USB cable. **TROUBLESHOOTING** 



This section covers minor problems with basic camera operation. For major problems or damage, or if a problem continues to reoccur frequently, contact a Minolta service facility listed on the back cover of this manual.

Problem	Symptom	Cause	Solution
will not work   pl	Nothing displayed on the the monitor.	The battery is dead.	Recharge the battery (p. 12).
		The auto-power-off function has shut down the camera.	Turn the camera on using the main switch.
		The AC adapter is not connected properly.	Check that the adapter is connected to the camera and a live electrical outlet (p. 15).
	"000" is displayed on the frame counter.	The memory card is full and unable to store an image at the image-quality or image-size setting on the camera.	Insert a new memory card (p. 16), delete some images (p. 58), or change the image-quality or image-size setting (p. 28).
Shutter will not release.	No-card warning appears on the monitor.	No memory card in the camera.	Insert a memory card (p.16).
	Card-locked warning appears on the monitor.	Memory card is locked.	Unlock the memory card using the write-protect switch (p.17).

Problem	Symptom	Cause	Solution
Focus signal is red and the	Subject is too close.	Make sure the subject is within the autofocus range of 25cm (0.8ft.) to infinity.	
Pictures are not sharp.	viewfinder indicator lamp is green and blinking quick- ly.	A special situation is preventing the autofocus system from focusing (p.25)	Use the focus-lock function to focus on an object at the same distance as the subject (p. 24).
Pictures are taken indoors or in low-light situations without flash.	Slow shutter speeds result in blurred images when the camera is hand-held.	Use a tripod or the built-in flash (p. 26).	
Only one picture can be taken with continuous drive.	The image quality is set to super fine.		Change the image-quality setting (p. 28).
While using flash, the pictures are too dark.	The subject is beyond the flash range: wide-angle position - 0.25m ~ 3.2m (0.8 ft. ~ 10.5 ft.), telephoto position - 0.25m ~ 2.5m (0.8 ft. ~ 8.2ft.)(p. 27).		Move closer to the subject.

TROUBLESHOOTING

Problem	Symptom	Cause	Solution
Subject appears too far to the right in the image.	Viewfinder was used for framing. Parallax is apparent with subjects closer than 1m (3ft.) at the zooms' wide-angle position or 3m (10ft) at the telephoto position.		Only use the LCD monitor for framing with close subjects.
Part of the image area is hidden behind a dark object.	Viewfinder was used to capture the image.	The lens was partially covered with an object or finger.	When using the viewfinder, take care not to cover the lens.

If the camera does not function normally, turn it off, remove and reinsert the battery, or unplug and reconnect the AC adapter. Always turn the camera off using the main switch otherwise the memory card may be damaged and camera settings reset.

### About the Lithium-ion Battery Charger AC Cord

The included AC cord is designed for the current of the sales region. Only use the cord in the region it was purchased.

Devien	Dead out a contact
Region	Product number
Japan (100V)	APC-100
Europe (except for Great Britain), China, Korea, Singapore (220-230V)	APC-110
Great Britain, Hong Kong (220V-240V)	APC-120
United States, Canada, Taiwan (110V-120V)	APC-130



The indicator lamp next to the viewfinder can be used to diagnose camera operations. The lamp colors change between green, red, and orange, and the lamp can glow steadily or blink at two rates.

Color	State	Indication
	Steady	Camera ready to take an image.
Green	Blinking slowly	Camera-shake warning - shutter speed is below the limit where the camera can be safely hand-held. Use flash (p. 26) or tripod.
Blinking quickly	The camera cannot focus. The subject is closer than 0.25m (0.8ft.) or a special situation is preventing the autofocus system from focusing (p. 25).	
Red	Blinking quickly	Power is insufficient for camera operation.  The flash is charging (the shutter cannot be released).  The memory card is locked.  The memory card is full.  The memory card cannot be used with the camera and may need to be formatted.
Orange	Blinking quickly	The camera is accessing the memory card.

## TROUBLESHOOTING

### Removing the driver software - Windows

- 1. Insert a memory card in the camera and connect it to the computer with the USB cable. Other devices must not be connected to the computer during this procedure.
- 2. Right click on the My-computer icon. Select "properties" from the drop-down menu.
- Windows XP: from the start menu go to the control panel. Click on the performance and maintenance category. Click "System" to open the system properties window.
- 3. Windows 2000 and XP: select the hardware tab in the properties window and click the device-manager button.
- Windows 98 and Me: click the device-manager tab in the properties window.
- 4. The driver file will be located in the universal-serial-bus-controller or other-devices location of the device manager. Click on the locations to display the files. The driver should be indicated with the camera name. Under certain conditions, the driver name may not contain the camera name. However, the driver will be indicated by either a question mark or exclamation point.
- 5. Click on the driver to select it.
- 6. Windows 2000 and XP: click on the action button to display the drop-down menu. Select "uninstall." A confirmation screen will appear. Clicking "Yes" will remove the driver from the system.
- Windows 98 and Me: click the remove button. A confirmation screen will appear. Clicking "Yes" will remove the driver from the system.
- 7. Disconnect the USB cable and turn off the camera. Restart the computer.

# System Accessories (sold separately)

#### Marine Case MC-DG110

Protects the camera down to a depth of 30m (approximately 100ft.) underwater. The extremely compact shell retains the camera's portability while protecting it from the elements on land or sea. All camera operations are available when the case is sealed. Availability depends on the region. Contact your local dealer or an authorized Minolta Service Facility for details.



### AC Adapter AC-4 or AC-5

The AC adapter allows the camera to be powered from a household outlet. The AC adapter is recommended when the camera is interfaced with a computer or during periods of heavy use. AC adapter model AC-4 is for use in North America, Japan and Taiwan, and AC -5 is for use in all other regions.

#### Others

Camera Case CS-DG-110 Metal Chain Neck Strap Lithium-ion Battery NP-200 Care and storage Appendix

#### Camera care

- Do not subject the camera to shock or impact.
- Turn off the camera when transporting.
- This camera is neither waterproof nor splashproof. Inserting or removing the battery or memory card, or operating the camera with wet hands may damage the camera.
- When at the beach or near water, take care not to expose the camera to water or sand. Water, sand, dust, or salt can damage the camera.
- Do not leave the camera under direct sunlight. Do not point the lens directly at the sun; the CCD may be damaged.
- When taking the camera from a cold to a warm environment, place it in a sealed plastic bag to prevent condensation from forming. Allow the camera to come to room temperature before removing it from the bag.

### Memory cards

SD Memory Cards and MultiMediaCards are manufactured with precision electronic components. The following may cause data loss or damage:

- Improper use of the card.
- Bending, dropping, or subjecting the card to impact.
- Heat, moisture, and direct sunlight.
- Static electrical discharge or electromagnetic fields near the card.
- Removing the card or interrupting the power supply while the camera or a computer is accessing the card (reading, writing, formatting, etc.).
- Touching the electrical contacts of the card with your fingers or metal objects.
- The disuse of a card for an extended period.
- Using the card beyond its life. Purchasing a new card periodically may be necessary.

The storage capability of the memory card will diminish with extended use. Minolta has no responsibility for any loss or damage to data. It is recommended that a copy of the card data be made.

#### Batteries

- Battery performance decreases with temperature. In cold environments, we recommend keeping spare batteries in a warm place, such as the inside of a coat. Batteries can recover their power when they warm up.
- Do not store the battery when it is fully charged.
- When storing the battery for extended periods, recharge the battery for five minutes every six months. The battery may not be able to be recharged if completely exhausted.

### Cleaning

- If the camera or the outside of the lens is dirty, gently wipe it with a soft, clean, dry cloth. If the camera or lens comes in contact with sand, gently blow away loose particles. Wiping may scratch the surface.
- To clean the lens surface, first blow away any dust or sand, then, if necessary, moisten a lens tissue or soft cloth with lens cleaning fluid and gently wipe the lens.
- Never use organic solvents to clean the camera.
- Never touch the lens surface with your fingers.

### Storage

- Store in a cool, dry, well-ventilated area away from dust and chemicals. When not in use for long periods, store the camera in an airtight container with a silica-gel drying agent.
- Remove the battery and memory card from the camera when not in use for extended periods.
- Do not store the camera in an area with naphthalene or mothballs.
- During long periods of storage, operate the camera occasionally. When taking the camera out of storage, check that the camera is functioning properly before using.

CARE AND STORAGE APPENDIX

#### LCD monitor care

- Although the LCD monitor is manufactured using high precision technology, there may occasionally be a lack of color or bright points on the LCD monitor.
- Do not apply pressure to the surface of the LCD monitor; it may be permanently damaged.
- In a cold environment, the LCD monitor may become temporarily dark. When the camera warms up, the display will function normally.
- The LCD monitor may be slow to react in low temperatures or may turn dark in a hot environment. When the camera reaches normal operating temperature, the display will function normally.
- If fingerprints are on the LCD monitor surface, gently wipe with a soft, clean, dry cloth.

### Copyright

• TV program, films, video tapes, photographs, and other materials may be copyrighted. Unauthorized recording or duplication of such material may be contrary to copyright laws. Taking pictures or images of performances, exhibitions, etc., is prohibited without approval and can infringe on copyright. Images protected by copyright can only be used under the provisions within the copyright laws.

### Before important events or journeys

- Check the camera's operation; take test pictures and recharge the battery.
- Minolta has no responsibility for any damage or loss incurred by 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 a Minolta Service Facility.

The following marks may be found on the product:



This mark on your camera certifies that this camera meets the requirements of the EU (European Union) concerning interference causing equipment regulations. CE stands for Conformité Européenne (European Conformity).

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Digital Camera: DiMAGE Xi



Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

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. Changes or modifications not approved by the party responsible for compliance could void the user's

authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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. Tested by the Minolta Corporation 101 Williams Drive, Ramsey, New Jersey 07446, U.S.A. Do not remove the ferrite cores from the cables.

## TECHNICAL SPECIFICATIONS

# APPENDIX

Number of effective pixels: 3.2 million

CCD: 1/2.7-type interline complementary-color CCD with a

total of 3.3 million pixels.

Camera sensitivity (ISO): Automatic (between ISO 50 - 160 equivalent),

ISO50, 100, 200, 400

Aspect ratio: 4:3

Lens construction: 9 elements in 8 groups.

Maximum aperture: f/2.8 - f/3.6

Focal length: 5.7 - 17.1 mm (35mm equivalent: 37 - 111 mm) 0.25 m - infinity (from the front of the camera) Focusing range:

Video AF Autofocusing system:

Shutter: CCD electronic shutter plus mechanical shutter

Shutter speeds: 2 - 1/1000s

Built-in flash recycling time: Approximately 6 seconds

Viewfinder: Optical real-image zoom viewfinder.

Monitor LCD: 3.8 cm TFT color

Monitor field of view: Approximately 100%

A/D conversion: 12 bits

Recording media: SD Memory Cards and MultiMediaCards

File formats: JPEG, TIFF, motion JPEG (MOV), WAV. DCF 1.0

and DPOF compliant.

Print Image Matching: Yes

Menu languages: Japanese, English, German, French, and Spanish

Video output: NTSC and PAL

Minolta NP-200 lithium-ion battery. Batterv:

Battery performance (recording): Approximately 120 frames: based on Minolta's stan-

> dard test method: NP-200 lithium-ion battery, LCD monitor on, full-size images (2048 X 1536), standard image quality, no instant playback, no voice memo,

flash used with 50% of the frames.

Approximately 170 frames: based on Minolta's stan-

dard test method: NP-200 lithium-ion battery, LCD monitor off, full-size images (2048 X 1536), standard

image quality, no instant playback, no voice memo,

flash used with 50% of the frames.

Battery performance (playback): Approximate continuous playback time: 110 min.

> Based on Minolta's standard test method: NP-200 lithium-ion battery, LCD monitor on, no audio play-

back.

External power source: AC adapter (AC-4 or AC-5) Dimensions: 84.5 (W) X 72 (H) X 20 (D) mm

Weight: Approximately 130g

(without battery or recording media)

Operating temperature: 0° - 40°C

Operating humidity: 5 - 85% (noncondensing)

Lithium-ion Battery NP-200

Voltage: 3.7V Weight:

Dimensions 31.5 (W) X 52.6 (H) X 6.5 (D) mm

Battery Charger BC-200

Input voltage: AC100-240V, 50/60Hz

Weight: 75g

**Dimensions** 65 (W) X 80 (H) X 25.8 (D) mm

Specifications are based on the latest information available at the time of printing and

are subject to change without notice.



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