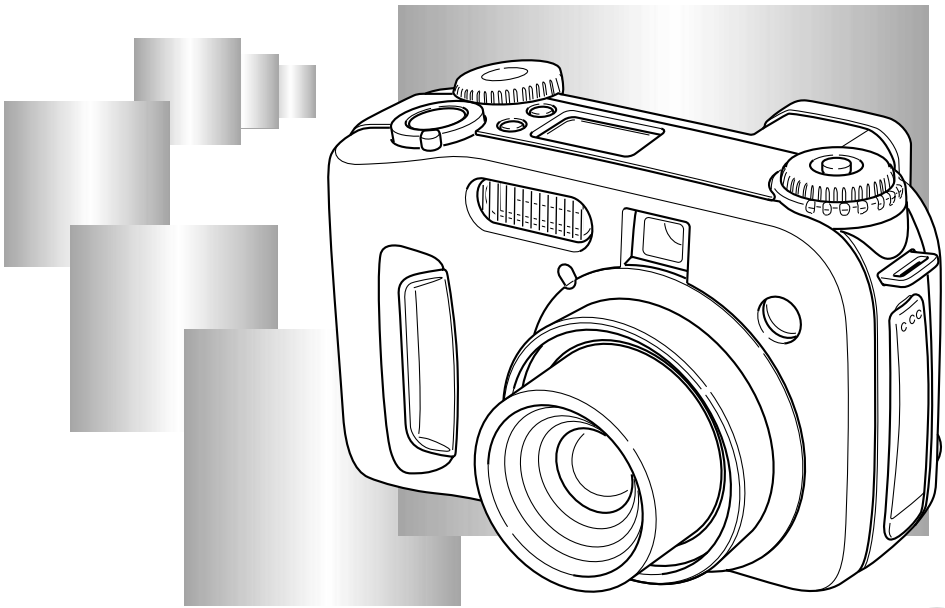
LCD Digital Camera

QV-4000

User's Guide



Congratulations upon your selection of the new CASIO Digital Camera. To get the most out of your new CASIO Digital Camera, make sure you read this manual carefully and keep it on hand for future reference.

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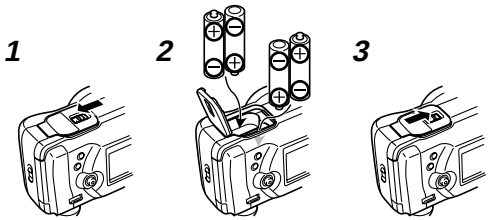
Quick Reference

Getting Ready

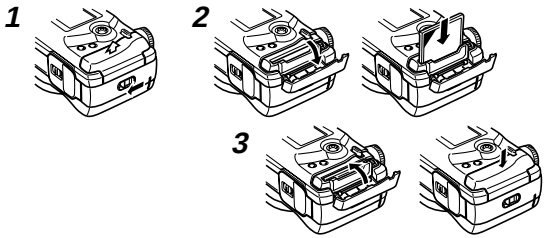
1

Load batteries. (page E-29)



2

Insert the memory card. (page E-37)



3

Set the current time and date. (page E-43)

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Recording an Image (page E-45)

1

Remove the lens cap from the lens.

2

Align the exposure mode dial with A (Full Auto Mode).

3

Align the drive mode dial with ▭ (1-Image).

5

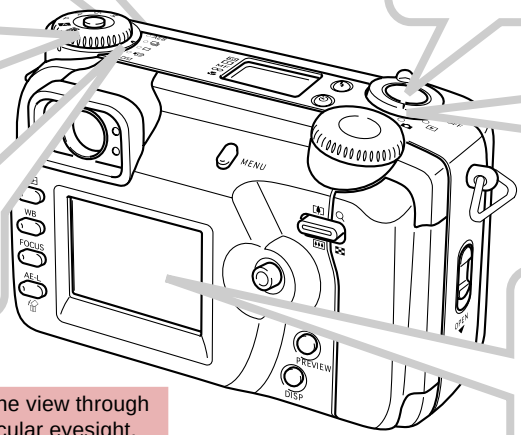
Point the camera at the subject, compose the image on the monitor screen, and press the shutter release button half way to focus the image.

4

Align the power/function switch with 📷.

6

After confirming that the Auto Focus operation is complete (the operation lamp lights green), press the shutter release button all the way down to record the image.



Use the Diopter Dial to adjust the view through the viewfinder to suit your particular eyesight. (page E-51)

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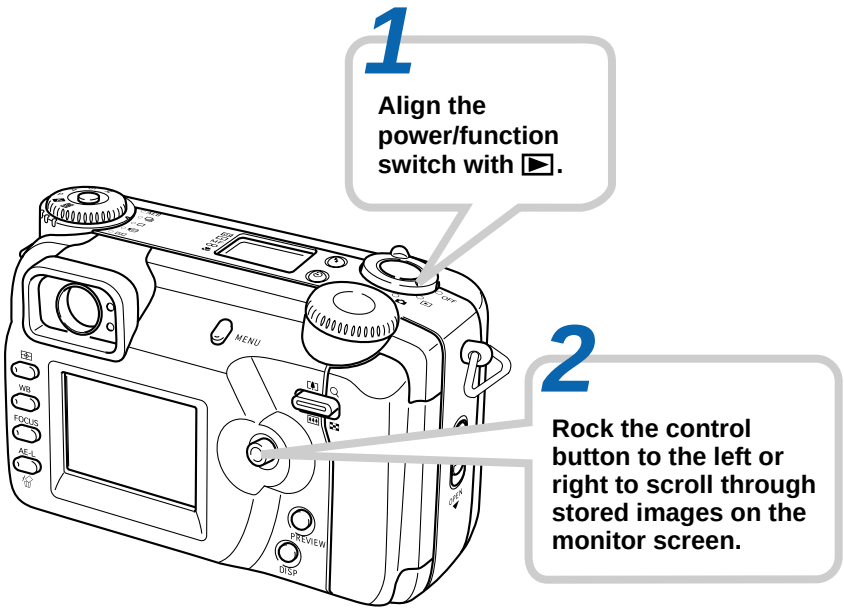
Viewing (Playing Back) an Image (page E-109)



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Deleting an Image (page E-119)

1

Align the power/function switch with ▶.

2

Rock the control button to the left or right to scroll through stored images and display the one you want to delete.

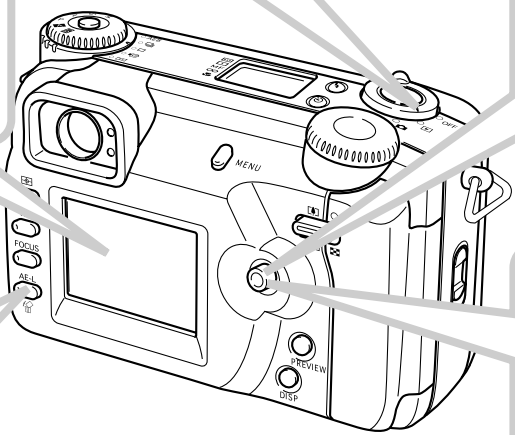
3

Press AE-L 🗑.

4

Double check to make sure that you really want to delete the image you selected.

- You can exit the image delete operation by pressing AE-L 🗑.



5

Rock the control button down to select “Yes” and then click the control button.

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Features

- High-resolution 4.13-megapixel CCD
  Record images that capture everything, from delicate skin tone nuances to all the fine detail of natural scenery.
- Canon F2.0 wide-aperture lens
  Provides high contrast and captures the most delicate of nuances.
- World's first digital soft focus
  Creates stunning effects for portraits and floral shots.
- Real-time histogram
  Quickly and easily obtains exactly the exposure you want, even under difficult lighting conditions.
- Easy-to-understand control panel
  Aperture, shutter speed, focus and other settings can be seen at a glance, even when the monitor screen is turned off.
- Dual dial operation
  A pair of dials helps to make drive mode and exposure mode settings quick and easy.
- AF assist light
  Improves auto focus accuracy when shooting under dim lighting.
- Multi-area AF
  Helps to prevent out-of-focus areas in an image.
- Focus area expansion
  Makes it easier achieve the focus you want.
- Image preview
  Provides instant preview of an image you just recorded.
- 1.8-inch TFT low-glare color LCD (HAST) monitor screen
- 9.6X seamless digital zoom
  3X digital zoom, 3.2X digital zoom
- External flash connectability
- Memory card image storage
  Supports CompactFlash cards (CF TYPE I/II) and the IBM Microdrive.
- Digital Print Order Format (DPOF)
  Images can be printed easily in the sequence you want using a DPOF compatible printer. DPOF can also be used when specifying images and quantities for printing by professional print services.
- PRINT Image Matching support
  Images include PRINT Image Matching data (mode setting and other camera setup information). A printer that supports PRINT Image Matching reads this data and adjusts the printed image accordingly, so your images come out just the way you intended when you recorded them.

- Never open the battery compartment cover, disconnect the AC adaptor from the camera or unplug it from the wall socket while recording or playing back images. Doing so will not only make image playback impossible, but it may also result in permanent damage to the camera's internal circuitry.
- This camera is designed for use in temperatures ranging from 0°C to 40°C.
- Do not use or keep the camera in the following areas:
  — In areas subject to direct sunlight
  — In areas subject to high humidity or dust
  — Near air conditioners, heaters, or other areas subject to temperature extremes
  — Inside of a closed vehicle, especially one parked in the sun
  — Areas subject to strong vibration

Condensation

- When moving the camera from one environment to another, allow time for the camera to adjust to the new environment before using it.
- Condensation can cause malfunction of the camera, so you should avoid exposing it to conditions that might cause condensation.
- To keep condensation from forming, place the camera into a plastic bag before moving it into a location that is much warmer or colder than your current location. Leave it in the plastic bag until the air inside the bag has a chance to reach the same temperature as the new location.

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General Precautions

Before you begin using the camera, be sure to read the following precautions and observe the following important precautions when using the camera.

- Fingerprints, dust, or any other soiling of the lens can interfere with proper image recording. Never touch the lens with your fingers. You can remove dust particles from the lens surface by using a lens blower to blow them off. Next, wipe the surface of the lens with a soft lens cloth.
- Take care not to subject the lens to undue force or impact, and never set the camera face down so the lens is in contact with a tabletop, etc. Be sure to remove the lens cap before turning on the camera.
- If you align the power/function switch with the ● while the lens cap is on the lens, the message "LENS CAP" appears on the display and camera power turns off. Contact your nearest authorized CASIO service provider if this happens. Remove the lens cap and try again.
- Never remove the camera's batteries or unplug its AC adaptor while the lens is extended. Doing so leaves the lens extended, and creates the risk of lens damage.
- Never fire the flash while it is too close to the subject's eyes. Intense light from the flash can cause eye damage if it is fired too close to the eyes, especially with young children. When using the flash, the camera should be at least one meter from the eyes of the subject.
- Keep the camera away from water and other liquids, and never let it get wet. Moisture creates the danger of fire and electrical shock. Never use the camera outdoors in the rain or snow, at the seashore or beach, in the bathroom, etc.
- Should foreign matter or water ever get into the camera, immediately turn power off, unplug the AC adaptor from the power outlet, and contact your dealer or nearest CASIO service provider. Using the camera under these conditions creates the danger of fire and electrical shock.
- Should you ever notice smoke or a strange odor coming out of the camera, immediately turn power off and unplug the AC adaptor from the power outlet. Using the camera under these conditions creates the danger of fire and electrical shock. After making sure there is no more smoke coming from the camera, take it to your nearest CASIO service provider for repair. Never attempt your own maintenance.
- At least once a year, unplug the AC adaptor from the power outlet and clean the area around the prongs of the plug. Dust build up around the prongs can create the danger of fire.
- If the camera's case should ever become cracked due to dropping it or otherwise subjecting it to rough treatment, immediately turn power off, unplug the AC adaptor from the power outlet, and contact your nearest CASIO service provider.
- Never use the camera inside of an aircraft or in any other areas where its use is prohibited. Doing so can result in an accident.
- Physical damage and malfunction of this camera can cause the image data stored in its memory to be deleted. Be sure to always keep backup copies of data by transferring them to personal computer memory.

Features

- DCF Data Storage
  DCF (Design rule for Camera File system) data storage protocol provides image inter-compatibility with printers and other digital cameras.
- Bright Outdoors
  Because of its reflective display, the QV-4000 can be used outdoors in bright sunlight.
- TV Connection
  Connects to your television for big-screen viewing of images.
- USB compatibility
  Connects to your computer for quick and easy image exchange.
- Image management and manipulation software
  The QV-4000 comes bundled with a CD-ROM that's packed with useful software: Photo Loader for transferring images to your computer, Photo Hands for editing and printing images, and Panorama Editor for stitching images into panoramas, all other bundled.
  Windows version only.

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Recording Features

Best Shot Mode

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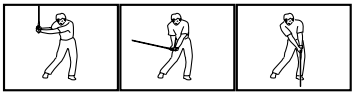
Movie Mode



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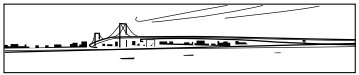
Auto Exposure Bracketing (AEB)

Automatically records multiple images at different exposure settings.

page E-89

Panorama Mode

Stitches multiple images into a sweeping panorama.



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Five focus modes

Multi-area AF, Spot AF, Manual, Infinity, Macro

page E-62 to E-65

Three metering modes

Multi-pattern, Center-weighted, Spot

page E-68

Five exposure modes

Full auto, Program AE, aperture priority AE, shutter speed priority AE, manual exposure

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  Images include PRINT Image Matching data (mode setting and other camera setup information). A printer that supports PRINT Image Matching reads this data and adjusts the printed image accordingly, so your images come out just the way you intended when you recorded them.

Operation

- Never open the battery compartment cover, disconnect the AC adaptor from the camera or unplug it from the wall socket while recording or deleting image data, so will not only make the image data unrecoverable, but also may cause permanent damage to the camera or memory card.
- This camera is designed for use in temperatures ranging from 0°C to 40°C.
- Do not use or keep the camera in the following areas:
  — In areas subject to direct sunlight
  — In areas subject to high humidity or dust
  — Near air conditioners, heaters, or other areas subject to temperature extremes
  — Inside of a closed vehicle, especially one parked in the sun
  — Areas subject to strong vibration

Condensation

- When moving the camera from one environment to another, allow time for the camera to adjust to the new environment before using it.
- Condensation can cause malfunction of the camera, so you should avoid exposing it to conditions that might cause condensation.
- To keep condensation from forming, place the camera into a plastic bag before moving it into a location that is much warmer or colder than your current location. Leave it in the plastic bag until the air inside the bag has a chance to reach the same temperature as the new location.

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General Precautions

Before you begin using the camera, be sure to read the following precautions and observe the following important precautions when using the camera.

- Fingerprints, dust, or any other soiling of the lens can interfere with proper image recording. Never touch the lens with your fingers. You can remove dust particles from the lens surface by using a lens blower to blow them off. Next, wipe the surface of the lens with a soft lens cloth.
- Take care not to subject the lens to undue force or impact, and never set the camera face down so the lens is in contact with a tabletop, etc. Be sure to remove the lens cap before turning on the camera.
- If you align the power/function switch with the ● while the lens cap is on the lens, the message "LENS CAP" appears on the display and camera power turns off. Contact your nearest authorized CASIO service provider if this happens. Remove the lens cap and try again.
- Never remove the camera's batteries or unplug its AC adaptor while the lens is extended. Doing so leaves the lens extended, and creates the risk of lens damage.
- Never fire the flash while it is too close to the subject's eyes. Intense light from the flash can cause eye damage if it is fired too close to the eyes, especially with young children. When using the flash, the camera should be at least one meter from the eyes of the subject.
- Keep the camera away from water and other liquids, and never let it get wet. Moisture creates the danger of fire and electrical shock. Never use the camera outdoors in the rain or snow, at the seashore or beach, in the bathroom, etc.
- Should foreign matter or water ever get into the camera, immediately turn power off, unplug the AC adaptor from the power outlet, and contact your dealer or nearest CASIO service provider. Using the camera under these conditions creates the danger of fire and electrical shock.
- Should you ever notice smoke or a strange odor coming out of the camera, immediately turn power off and unplug the AC adaptor from the power outlet. Using the camera under these conditions creates the danger of fire and electrical shock. After making sure there is no more smoke coming from the camera, take it to your nearest CASIO service provider for repair. Never attempt your own maintenance.
- At least once a year, unplug the AC adaptor from the power outlet and clean the area around the prongs of the plug. Dust build up around the prongs can create the danger of fire.
- If the camera's case should ever become cracked due to dropping it or otherwise subjecting it to rough treatment, immediately turn power off, unplug the AC adaptor from the power outlet, and contact your nearest CASIO service provider.
- Never use the camera inside of an aircraft or in any other areas where its use is prohibited. Doing so can result in an accident.
- Physical damage and malfunction of this camera can cause the image data stored in its memory to be deleted. Be sure to always keep backup copies of data by transferring them to personal computer memory.

Features

- DCF Data Storage
  DCF (Design rule for Camera File system) data storage protocol provides image inter-compatibility with printers and other digital cameras.
- Bright Outdoors
  Because of its reflective display, the QV-4000 can be used outdoors in bright sunlight.
- TV Connection
  Connects to your television for big-screen viewing of images.
- USB compatibility
  Connects to your computer for quick and easy image exchange.
- Image management and manipulation software
  The QV-4000 comes bundled with a CD-ROM that's packed with useful software: Photo Loader for transferring images to your computer, Photo Hands for editing and printing images, and Panorama Editor for stitching images into panoramas, all other bundled.
  Windows version only.

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Battery Life Guidelines

The battery life guideline values given below indicate the approximate number of shots that can be taken before the camera automatically turns off due to battery failure. They do not guarantee that batteries will provide the amount of service indicated. Low temperatures reduce battery life.

Type of Operation		
AA-size Alkaline Batteries LR6	170 minutes (340 shots)	65 minutes (130 shots)
AA-size Lithium Batteries FR6	320 minutes (640 shots)	130 minutes (260 shots)
AA-size Ni-MH Batteries NB-H3	120 minutes (240 shots)	100 minutes (200 shots)

¥ The above values are approximations.

¥ The above guidelines are based on the following battery types:
Alkaline: Maxell (LR6), DURACELL ULTRA
Lithium: Energizer
¥ Values may differ with brand.

¥ Battery life may be reduced in low temperatures or under the following conditions:
- Frequent use of the zoom
- Frequent use of the aperture or shutter
- Long exposure times
- Frequent use of the flash
- Frequent use of the AF illuminator
- Frequent use of the Self-Timer
- Frequent use of the Image Review
- Frequent use of the Image Review zoom
- Frequent use of the Image Review scroll
- Frequent use of the Image Review Erase
- Frequent use of the Image Review Rotate
- Frequent use of the Image Review Slide
- Frequent use of the Image Review Copy
- Frequent use of the Image Review Print Order
- Frequent use of the Image Review Protect
- Frequent use of the Image Review Transfer
- Frequent use of the Image Review Resize
- Frequent use of the Image Review Trimming
- Frequent use of the Image Review Brightness
- Frequent use of the Image Review Contrast
- Frequent use of the Image Review Saturation
- Frequent use of the Image Review Red Eye Correction
- Frequent use of the Image Review Sound Recording
- Frequent use of the Image Review Voice Memo
- Frequent use of the Image Review Text Memo
- Frequent use of the Image Review Slide Show
- Frequent use of the Image Review Copy Image
- Frequent use of the Image Review Copy Text
- Frequent use of the Image Review Copy Sound
- Frequent use of the Image Review Copy Voice Memo
- Frequent use of the Image Review Copy Text Memo
- Frequent use of the Image Review Copy

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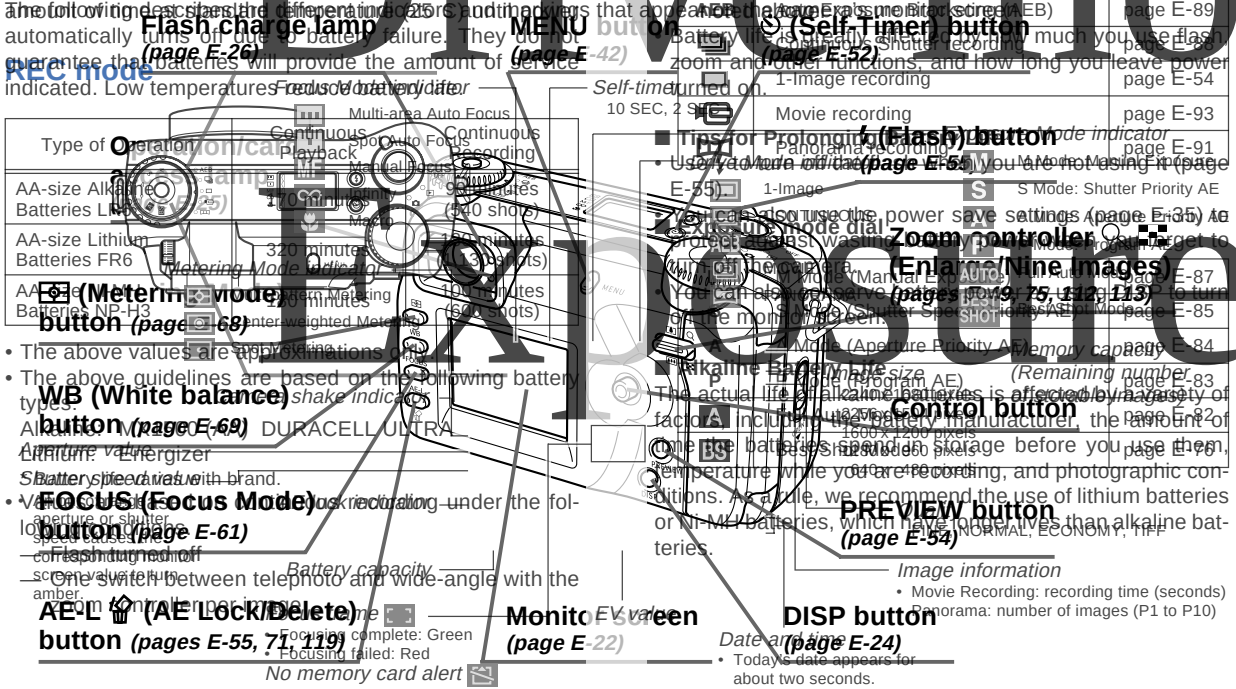
Monitor Screen Indicators


Flash charge lamp (page E-26)
MENU button (page E-42)
Self-timer (10 SEC, 2 SEC)
(Flash) button (page E-55)
Zoom controller (Enlarge/Nine images) (pages 19, 75, 112, 113)
Control button
PREVIEW button (page E-54)
Image information
• Movie Recording: recording time (seconds)
• Panorama: number of images (P1 to P10)
Date and time (page E-24)
• Today's date appears for about two seconds.
DISP button (page E-24)
EV value
Monitor screen (page E-22)
Battery capacity
No memory card alert
Focusing complete: Green
• Focusing failed: Red
AE-L (AE Lock/Delete) button (pages E-55, 71, 119)
One switch between telephoto and wide-angle with the
FOCUS (Focus Mode) button (page E-61)
WB (White balance) button (page E-69)
(Metering Mode) button (page E-68)
Focus Mode indicator
Metering Mode indicator
Aperture value
Shutter speed value
Self-timer mode indicator
Shake indicator
Image size
(Remaining number of memory capacity)
Battery life
Mode dial
Type of Operation
AA-size Alkaline Batteries LR6
AA-size Lithium Batteries FR6
AA-size Ni-MH Batteries NP-H3
Continuous Playback
Continuous Recording
Multi-area Auto Focus
Spot Auto Focus
Manual Focus
Center-weighted Metering
Movie recording
Panorama recording
1-Image recording
S Mode: Shutter Priority AE
Program AE
Manual Exposure
Best Shot Mode
Shot Mode
Aperture Priority AE
Image Effect
Image Size
Image Quality
Pixels
Resolution
Focus
Exposure
Shutter
Flash
Zoom
Date/Time
Sound
Power Saving
Monitor
Image Review
Image Rotation
Image Transfer
Image Protect
Image Copy
Image Print
Image Delete
Image Search
Image Slideshow
Image Resize
Image Trimming
Image Effect
Image Quality
Image Size

Memory Cards

Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

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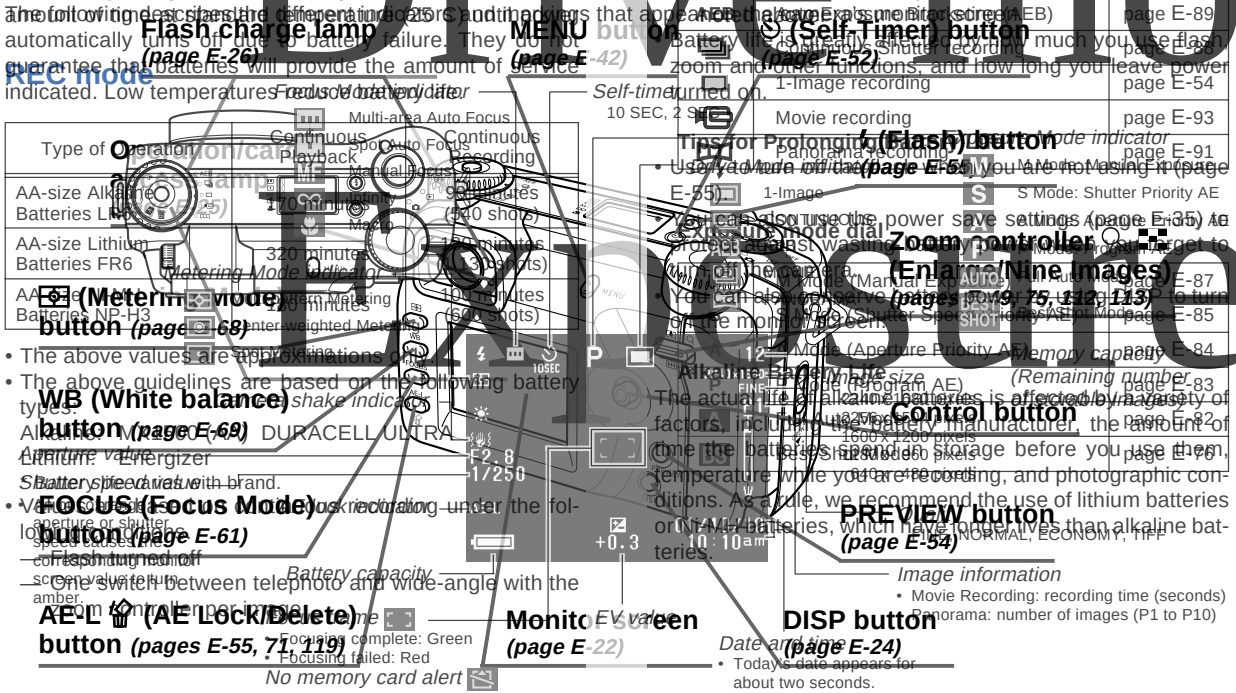
Battery Life Guidelines

The battery life guideline values given below indicate the amount of time (at 25°C) and number of shots that appear on the LCD monitor before the camera automatically turns off due to battery failure. They do not guarantee that batteries will provide the amount of service indicated. Low temperatures reduce battery life.

Type of Operation	Continuous Playback	Continuous Recording
AA-size Alkaline Batteries LR6	170 minutes (340 shots)	60 minutes (120 shots)
AA-size Lithium Batteries FR6	320 minutes (640 shots)	120 minutes (240 shots)
AA-size Ni-MH Batteries NP-H3	120 minutes (240 shots)	100 minutes (200 shots)

- The above values are approximations.
- The above guidelines are based on the following battery types:
  Alkaline: Maxell (LR6), DURACELL ULTRA
  Lithium: Energizer
  Battery specs vary with brand.
- Various conditions affecting battery life include the aperture or shutter speed cause the camera to turn on and off repeatedly, or frequently turned off screen value to turn amber, zoom controller per image, or frequently using the flash.

Monitor Screen Indicators



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Memory Cards

Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

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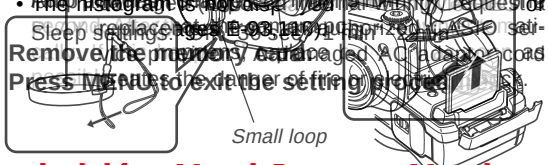
If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

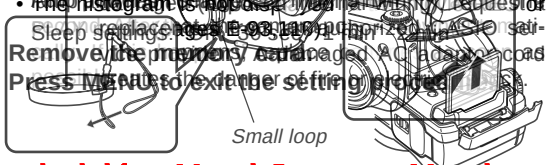
Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

Downloaded from ManualsCamera.com Manuals

If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

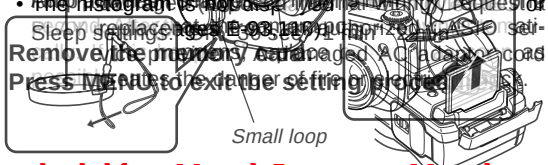
Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

Downloaded from ManualsCamera.com Manuals

If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

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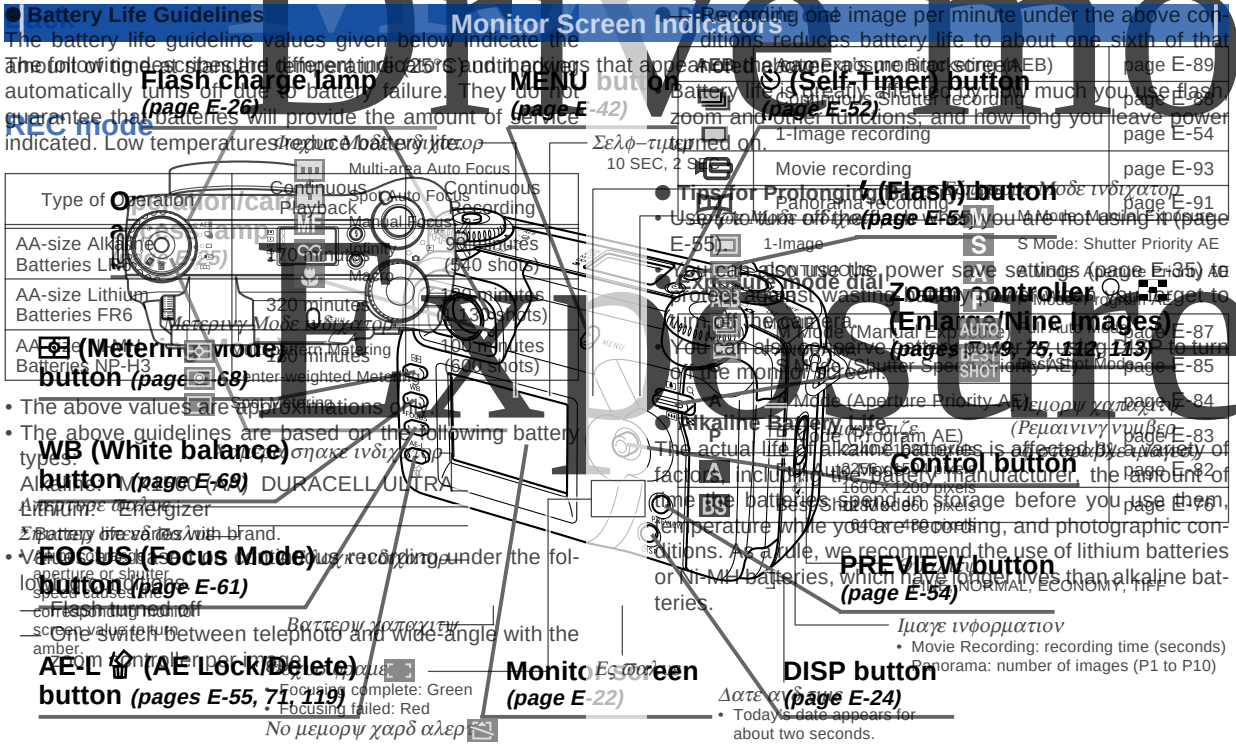
Monitor Screen Indicators



Battery Life Guidelines

The battery life guideline values given below indicate the amount of time (at 25°C) and numbers that appear on the battery screen automatically turns off due to battery failure. They do not guarantee that batteries will provide the amount of service indicated. Low temperatures reduce battery life.

Type of Operation	Continuous Playback	Continuous Recording
AA-size Alkaline Batteries LR6	170 minutes (510 shots)	60 minutes (180 shots)
AA-size Lithium Batteries FR6	320 minutes (960 shots)	120 minutes (360 shots)
AA-size Ni-MH Batteries NP-H3	170 minutes (510 shots)	100 minutes (300 shots)

- The above values are approximations.
- The above guidelines are based on the following battery types:
  Alkaline: Maxell (LR6), DURACELL ULTRA
  Lithium: Energizer
  Battery life varies with brand.
- Various conditions such as aperture or shutter speed cause battery life to fluctuate. Leaving the camera turned on, focusing repeatedly, using the LCD monitor screen, setting the screen value to turn amber, and using the zoom controller per image consumes more power.

Tips for Prolonging Battery Life

- Using the monitor screen or the zoom controller per image consumes more power. If you are not using it (page E-55), turn it off.
- You can also use the power save settings (page E-35) to protect against wasting power when you forget to turn off the camera.
- You can also reduce the number of times you have to turn on the monitor screen by using the Best Shot Mode (page E-76).

Alkaline Battery Life

The actual life of alkaline batteries is affected by a variety of factors, including the battery manufacturer, the amount of time the batteries spend in storage before you use them, temperature while you are recording, and photographic conditions. As a rule, we recommend the use of lithium batteries or Ni-MH batteries, which have longer lives than alkaline batteries.

One switch between telephoto and wide-angle with the zoom controller per image.

Recording one image per minute under the above conditions reduces battery life to about one sixth of that

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Memory Cards

Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

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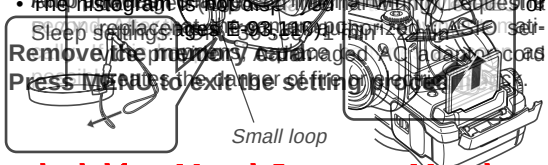
If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

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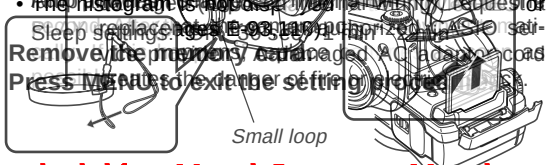
If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

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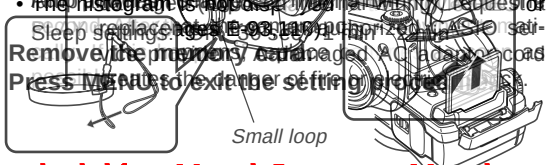
If you want to do this:	Do this:
[illegible]	[illegible]



If you want to do this:	Do this:
[illegible]	[illegible]

		Metering indicator	
		Spot metering indicator	
		Battery capacity indicator	
		Self-timer time settings	
		Exposure compensation	
Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

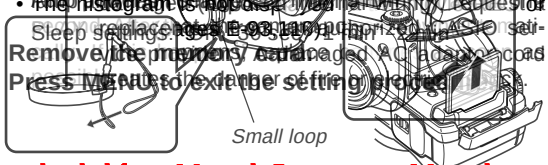
Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

Downloaded from ManualsCamera.com Manuals

If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

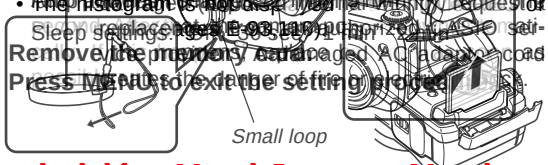
Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

Downloaded from ManualsCamera.com Manuals

If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Memory Cards

Approximate Battery Life: 8 minutes (8 shots)

Card slot cover lock

Memory card slot cover

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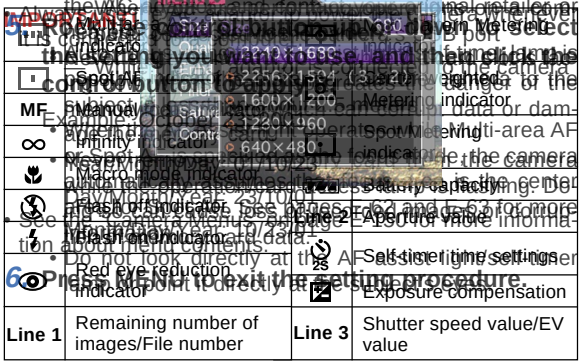
If you want to do this:	Do this:
[illegible]	[illegible]

If you want to do this:	Do this:
[illegible]	[illegible]



Line 1	Remaining number of images/File number	Line 3	Shutter speed value/EV value

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Setting the Date and Time

ELECTRIC ACCESSORIES

The [illegible] Model 1 [illegible] camera [illegible]

Use the following procedures to [illegible] date and time [illegible] the camera [illegible]

Initial Mode

The [illegible] cartridge [illegible] component, button [illegible] camera [illegible] shot is recorded in accordance with data [illegible] camera's built-in clock. You can even use the time stamp function to "stamp" the date and time inside the [illegible] image. [illegible]

Front

Shutter release button
(page E-45)

Power function switch
(pages E-35, 45)

Flash
(page E-55)

Exposure sensor
(page E-60)

Lens
(page E-16)

Terminal panel cover
(page E-1[illegible])

Indicator [illegible]
(page E-2[illegible])

Viewfinder
(page E-[illegible])

Self-timer
(page E-[illegible])

IMPORTANT!

- The [illegible] settings are cleared if the camera is left without battery and AA power for about 24 hours. If this happens, insert a power and make new time and date settings before [illegible] camera again.
- A flashing time display indicates that the time and date (clock) settings have been cleared. Use the [illegible] to make the correct [illegible] settings.
- If you do not set the camera's built-in clock to the current date and time, all image files recorded with the default date and time will be [illegible] incorrect current date and time. Be sure to correctly set the clock before you use the camera.

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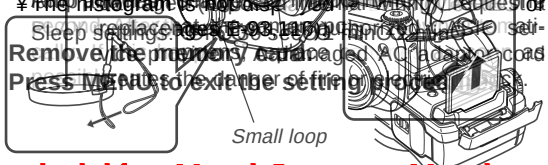
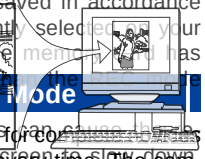
If you want to do this:	Do this:



This section describes the basic procedure for recording a image using the Full Auto Mode. It also explains about basic camera settings.

Camera Orientation Detection

- The actual image is recorded and saved in accordance with the image quality setting currently selected on your camera. The image recorded in the memory has much better resolution and detail than the image on the monitor screen, and



Using the Full Auto Mode

The Full Auto Mode makes it easy, even for co- to record good-looking digital images every time. The cam- which causes some static noise in the monitor screen im- automatically in accordance with subject brightness. recorded them. You can also configure the bundled Photo Loader application (page E-138) so it automatically positions each image using the orientation data stored with it.

1. Before turning on the camera, remove its lens cap.

2. Align the exposure mode dial with A (Full Auto Mode).

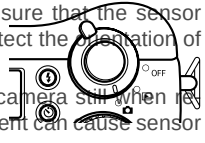
3. Align the drive mode dial with ▭ (1-Image).

4. Align the power/function switch with ◘.

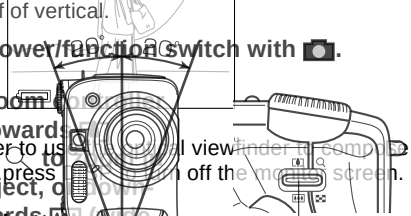
◘ : Turns on power and enters the REC mode.

▶ : Turns on power and enters the PLAY mode.

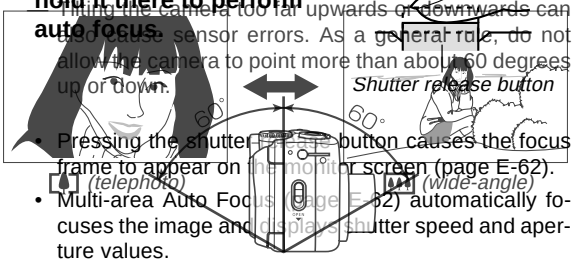
OFF : Turns off power.



5. When recording portrait orientation images, position the camera so it is standing up as straight as possible, as shown in the illustration below, holding the camera at an angle. You can also use a tripod. As a general rule, do not allow the camera to point more than about 20 degrees off of vertical.



6. Press the shutter release button about half way and hold it there to perform auto focus.



- Pressing the shutter release button causes the focus frame to appear on the monitor screen (page E-62).
- Multi-area Auto Focus (page E-62) automatically focuses the image and displays shutter speed and aperture values.

— The camera orientation sensor does not work with movie images.

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NOTES image

About Auto Focus

Auto Focus is a function that automatically focuses the camera on the subject you point it at. You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.

- Focusing the optical zoom factor also affects the Auto Focus operation. Focusing at the telephoto end of the zoom range results in a higher aperture value (smaller aperture) than focusing at the wide end of the zoom range, which results in a longer focus distance.
- The lens aperture value indicated on the camera is the value at the wide end of the zoom range.

Focus frame: Green Operation/card access lamp: Green	The image is in focus.
Focus frame: Red Operation/card access lamp: Red	The image is not in focus.

- Depending on actual conditions, a green operation/card access lamp and focus frame do not necessarily guarantee that the image is in focus.
  - Take care that you do not block the lens or the sensors with your fingers as you hold the camera.

Using the Self-timer

1. **Align the power/function switch with ⏱.**
2. **Press ⏱ to select the self-timer time you want.**

Fixed Focusing Distances

- Strongly backlit objects
- Polished metal or other brightly reflective objects
- Very blue objects or objects commonly known to be blue
- Multiple objects at different distances
- Subjects in poorly lit areas
- Moving subjects

Auto Focus also may not work properly when the camera is unstable or if you see this.

- You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.
- The lens aperture value indicated on the camera is the value at the wide end of the zoom range.

Auto Focus also may not work properly when the camera is unstable or if you see this.

- Focusing the optical zoom factor also affects the Auto Focus operation.

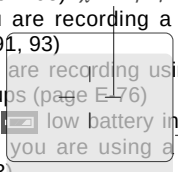
You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.

- Focusing the optical zoom factor also affects the Auto Focus operation.
- The lens aperture value indicated on the camera is the value at the wide end of the zoom range.

Auto Focus also may not work properly when the camera is unstable or if you see this

Using the Viewfinder for Recording

The illustrations below show what you see when you look through the viewfinder to compose an image for recording.



IMPORTANT!

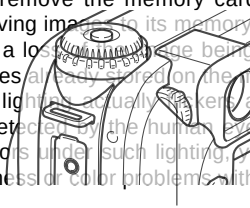
- In any of the following cases, the message "One moment please..." appears on the display after you record each image as it is saved to the memory card.
  - — When you are recording TIFF (uncompressed) images (page E-95).
  - — When you are recording a movie or panorama (pages E-91, 93)
  - — When you are recording using certain Best Shot scene setups (page E-76)
  - — When the low battery indicator is on the display while you are using a CompactFlash card (page E-33)
  - — When the low battery indicator is on the display while you are using an IBM Microdrive (page E-33).
- Recording images in the Full Auto Mode causes a number of camera settings to be made automatically in accordance with shooting conditions. See "Full Auto Mode Settings" on page E-154 for more information.

Note that the focus range frame is valid for subjects that are about three meters away. A different focus range is used for subjects that are closer or farther away. Because of this, you should change to the Manual Focus Mode (MF) or Macro Mode (🌷) whenever the distance between the camera and the subject is 30cm or less (pages E-64, 65).

- The monitor screen turns on automatically whenever the camera is in the Manual Focus Mode or Macro Mode. Use the monitor screen to compose images in the Manual Focus Mode or Macro Mode.

Recording Precautions

- You can use the Dioptr Dial to adjust the image in viewfinder screen to your eyesight.
- Never remove the camera's batteries, disconnect the AC adaptor, or remove the memory card from the camera while it is saving images to its memory card. Doing so not only causes a loss of image being saved, it can also corrupt images already stored on the memory card.
- Fluorescent lights actually flicker at a frequency that cannot be detected by the human eye. When using the camera indoors under such lighting, you may experience some brightness or color problems with recorded images.



Focusing

IMPORTANT!

- Focusing of the viewfinder image is disabled while the camera is turned off or in the PLAY mode.

The Full Auto Mode uses Multi-area AF, which measures three distances and automatically focuses on the subject nearest to the camera. Note that the focusing range is approximately 30 cm to ∞.

IMPORTANT!

- You cannot select a different focusing method when using the Full Auto Mode (Page E-61).

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NOTES image

About Auto Focus

Auto Focus results may not be as you expect in one of the following cases. You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.

- Subjects with low contrast
- Strongly backlit subjects
- Subjects that do not reflect
- Very close subjects (to
- Multiple subjects at varying distances
- Subjects in poorly lit areas
- Moving subjects

Auto Focus also may not work properly when the camera is unsteady.

Focus frame: Green Operation/card access lamp: Green	The image is in focus.
Focus frame: Red Operation/card access lamp: Red	The image is not in focus.

■ **Fixed Focusing Distances**

- Depending on actual conditions, a green operation/card access lamp and focus frame do not necessarily guarantee that the image is in focus.
  - Take care that you do not block the lens or the sensors with your fingers as you hold the camera.

Using the Self-timer

- You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.
- Focusing the optical zoom factor also affects the Auto Focus results. Generally, the longer the zoom setting, the higher the lens aperture value.
- The lens aperture value indicated on the camera is the lens aperture value when the lens is at its wide-angle position.
- Shooting with a high lens aperture value results in a higher aperture value setting and therefore, brightly reflective objects appear darker.

1. Align the power/function switch with ●.

2. Press ⏱ to select the self-timer time you want.

- Operation/card access lamp: Green
- Focus frame: Green
- Focus frame: Red
- Operation/card access lamp: Red
- Ratio
- Press the shutter release button halfway to focus the image. Check the focus frame and the operation/card access lamp to see if you have focused the image correctly.
- Press the shutter release button all the way down to take the image.
- Do not move the camera during the save operation.
- Recorded images are temporarily stored in a buffer from which they are stored to the memory card. You can continue to shoot consecutive images as long as there is space available in the buffer.
- The number of images you can store in the camera memory depends on the image resolution and the image quality settings (page E-94) you are using.
- To avoid hand movement, press the shutter release button gently.

3. Confirm that the image is in focus, press the shutter release button all the way down.

To protect against unexpected loss of image data, each image is recorded directly to the memory card (without going into the buffer) when the battery level is indicated as [ ] or lower. Pressing the shutter release button to capture an image appears on the monitor screen during the save operation. Note that under this condition, as long as you do not press DISP, the save operation continues and you can take a few seconds to complete. Pressing DISP while the "DISP. Press to cancel save" is on the monitor screen cancels the image save operation.

To do this:	Select this setting:
Cancel the save operation	Not available under this condition.
Save the image	Wait for the save operation to complete.

- If you press DISP. to cancel the save operation, the image may be saved in the camera memory as a low-quality image (page E-94) or may be lost. Pressing DISP. while the "DISP. Press to cancel save" is on the monitor screen cancels the image save operation.
- The message "DISP. Press to cancel save" also appears momentarily during save operations in the Panorama Mode, Movie Mode, and when you are using certain Best Shot scene setups. In this case, this message does not indicate that battery power is low.
  - To stop a countdown part way through, press the shutter release button.
- The message described above does not appear while the monitor screen is turned off.

NOTES

- The hand-shake limiter is enabled when you use a slow shutter speed and the two-second self-timer at the same time.
- You cannot use the self-timer in combination with the Continuous Shutter Mode.

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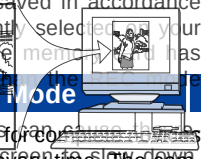
This section describes the basic procedure for recording a image using the Full Auto Mode. It also explains about basic camera settings.

Camera Orientation Detection

- The actual image is recorded and saved in accordance with the image quality setting currently selected on your camera. The image recorded in the memory has much better resolution and detail than the image on the monitor screen, and



Using the Full Auto Mode

The Full Auto Mode makes it easy, even for co- to record good-looking digital images every time. The cam- which causes some static noise in the monitor screen im- automatically in accordance with subject brightness. recorded them. You can also configure the bundled Photo Loader application (page E-138) so it automatically positions each image using the orientation data stored with it.

1. Before turning on the camera, remove its lens cap.

2. Align the exposure mode dial with A (Full Auto Mode).

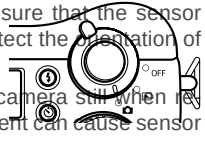
3. Align the drive mode dial with ▭ (1-Image).

4. Align the power/function switch with ◘.

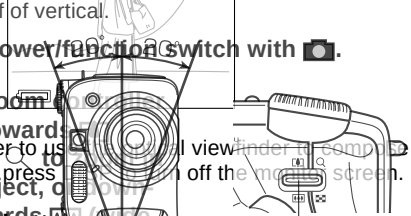
◘ : Turns on power and enters the REC mode.

▶ : Turns on power and enters the PLAY mode.

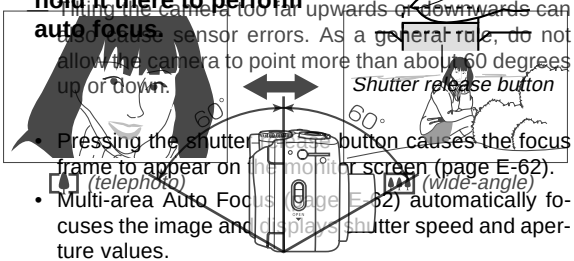
OFF : Turns off power.



5. When recording portrait orientation images, position the camera so it is standing up as straight as possible, as shown in the illustration below, holding the camera at an angle. You can also use a tripod. As a general rule, do not allow the camera to point more than about 20 degrees off of vertical.



6. Press the shutter release button about half way and hold it there to perform auto focus.



- Pressing the shutter release button causes the focus frame to appear on the monitor screen (page E-62).
- Multi-area Auto Focus (page E-62) automatically focuses the image and displays shutter speed and aperture values.

— The camera orientation sensor does not work with movie images.

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NOTES image

About Auto Focus

Auto Focus is a function that automatically focuses the camera on the subject you point it at. You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.

- Focusing the optical zoom factor also affects the Auto Focus operation. Focusing at the telephoto end of the zoom range results in a higher aperture value (smaller aperture) than focusing at the wide end of the zoom range, which results in a longer focus distance.
- The lens aperture value indicated on the camera is the value at the wide end of the zoom range.

Focus frame: Green Operation/card access lamp: Green	The image is in focus.
Focus frame: Red Operation/card access lamp: Red	The image is not in focus.

- Depending on actual conditions, a green operation/card access lamp and focus frame do not necessarily guarantee that the image is in focus.
  - Take care that you do not block the lens or the sensors with your fingers as you hold the camera.

Using the Self-timer

1. **Align the power/function switch with ⏱.**
2. **Press ⏱ to select the self-timer time you want.**

Fixed Focusing Distances

- Strongly backlit objects
- Polished metal or other brightly reflective objects
- Very blue objects or objects commonly known to be blue
- Multiple objects at different distances
- Subjects in poorly lit areas
- Moving subjects

Auto Focus also may not work properly when the camera is unstable or if you see this.

- You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.
- The lens aperture value indicated on the camera is the value at the wide end of the zoom range.

Auto Focus also may not work properly when the camera is unstable or if you see this.

- Focusing the optical zoom factor also affects the Auto Focus operation.

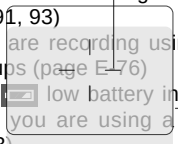
You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.

- Focusing the optical zoom factor also affects the Auto Focus operation.
- The lens aperture value indicated on the camera is the value at the wide end of the zoom range.

Auto Focus also may not work properly when the camera is unstable or if you see this

Using the Viewfinder for Recording

The illustrations below show what you see when you look through the viewfinder to compose an image for recording.

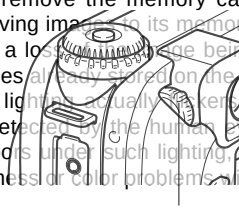


Note that the focus range frame is valid for subjects that are about three meters away. A different focus range is used for subjects that are closer or farther away. Because of this, you should change to the Manual Focus Mode (MF) or Macro Mode (🌷) whenever the distance between the camera and the subject is 30cm or less (pages E-64, 65).

- The monitor screen turns on automatically whenever the camera is in the Manual Focus Mode or Macro Mode. Use the monitor screen to compose images in the Manual Focus Mode or Macro Mode.

Recording Precautions

- You can use the Diopter Dial to adjust the image in viewfinder screen to your eyesight.



- Never remove the camera's batteries, disconnect the AC adaptor, or remove the memory card from the camera while it is saving images to its memory card. Doing so not only causes a loss of image being saved, it can also corrupt images already stored on the memory card.
- Fluorescent lights actually flicker at a frequency that cannot be detected by the human eye. When using the camera indoors under such lighting, you may experience some brightness or color problems with recorded images.

Focusing

IMPORTANT!

The Full Auto Mode uses Multi-area AF, which measures three distances and automatically focuses on the subject nearest to the camera. Note that the focusing range is approximately 30 cm to .

- Focusing of the viewfinder image is disabled while the camera is turned off or in the PLAY mode.

IMPORTANT!

- You cannot select a different focusing method when using the Full Auto Mode (Page E-61).

IMPORTANT!

- In any of the following cases, the message "One moment please..." appears on the display after you record each image as it is saved to the memory card.
  - — When you are recording TIFF (uncompressed) images (page E-95).
  - — When you are recording a movie or panorama (pages E-91, 93)
  - — When you are recording using certain Best Shot scene setups (page E-76)
  - — When the low battery indicator is on the display while you are using a CompactFlash card (page E-33)
  - — When the low battery indicator is on the display while you are using an IBM Microdrive (page E-33).
- Recording images in the Full Auto Mode causes a number of camera settings to be made automatically in accordance with shooting conditions. See "Full Auto Mode Settings" on page E-154 for more information.

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NOTES image

About Auto Focus

Auto Focus results may vary under one or more of the following conditions listed below.

- Solid color subjects
- Strongly backlit subjects
- Polished metal or other brightly reflective surfaces
- Very blue objects or objects with only a single color
- Multiple objects at different distances from the camera
- Subjects in poorly lit areas
- Moving subjects

Auto Focus also may not work properly when the camera is unstable.

- Depending on actual conditions, a green operation/card access lamp and focus frame do not necessarily guarantee that the image is in focus.
  - Take care that you do not block the lens or the sensors with your fingers as you hold the camera.

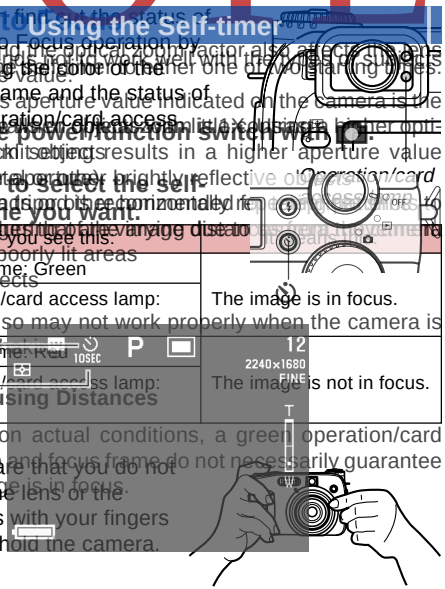
Focus frame: Green Operation/card access lamp: Green	The image is in focus.
Focus frame: Red Operation/card access lamp: Red	The image is not in focus.

Fixed Focusing Distances

- You can find out the status of the Auto Focus operation by checking the color of the focus frame and the status of the operation/card access lamp.
- Changing the optical zoom factor also affects the lens aperture value. Generally, a higher optical zoom factor results in a higher aperture value (smaller lens aperture).
- Pointing the camera at a brightly reflective object or surface, or at a very blue object, may cause the camera to focus improperly. If this happens, point the camera at something else, focus, and then return to the original subject.
- Focusing on a subject through a window may cause the camera to focus on the window instead of the subject. Avoid this by keeping the camera far enough from the window so that it is out of focus.
- Focusing on a subject that is very close to the camera may cause the camera to focus improperly. If this happens, move the camera further from the subject.
- Focusing on a subject that is very far from the camera may cause the camera to focus improperly. If this happens, move the camera closer to the subject.
- Focusing on a subject through a fence may cause the camera to focus improperly. If this happens, move the camera closer to the fence.
- Focusing on a subject through a fence may cause the camera to focus improperly. If this happens, move the camera closer to the fence.

Using the Self-timer

1. **Align the power/function switch with ⏱.**
2. **Press ⏱ to select the self-timer time you want.**
3. **Press the shutter release button all the way down.**
4. **Firmly hold the camera steady until the image is in focus.**
5. **After confirming that the image is in focus, press the shutter release button all the way down.**



- To protect against unexpected loss of image data, each image is recorded directly to the memory card (without going into the buffer) when the battery level is indicated as ▭ or lower. While the save operation is in progress, the ⏱ appears on the monitor screen during the save operation. Notice under this condition. As long as you do not press DISP, the save operation continues for a few seconds to complete. Pressing DISP while the "DISP. Press to cancel save" is on the monitor screen cancels the image save operation.
- If you have set the number of images you can store in the camera memory to 3 or more, the camera will record the image using the assigned image quality setting (page E-94) you are using.
- The message "DISP. Press to cancel save" also appears momentarily during save operations in the Panorama Mode, Movie Mode, and when you are using certain Best Shot scene setups. In this case, this message does not indicate that battery power is low.
- The message described above does not appear while the monitor screen is turned off.
  - To stop a countdown part way through, press the shutter release button.

To do this:	Select this setting:
Prevent image loss during the save operation	Not available under this condition.
Recorded images are temporarily stored in a buffer from which they are stored to the memory card. You can continue to shoot consecutive images as long as there is space available in the buffer.	
The number of images you can store in the camera memory depends on the image resolution and the image quality setting you are using.	
To avoid hand movement, press the shutter release button gently.	

NOTES

- The hand-shake limiter is enabled when you use a slow shutter speed and the two-second self-timer at the same time.
- You cannot use the self-timer in combination with the Continuous Shutter Mode.

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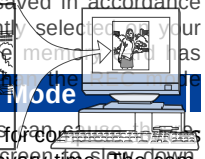
This section describes the basic procedure for recording a image using the Full Auto Mode. It also explains about basic camera settings.

Camera Orientation Detection

- The actual image is recorded and saved in accordance with the image quality setting currently selected on your camera. The image recorded in the memory has much better resolution and detail than the image on the monitor screen, and



Using the Full Auto Mode

The Full Auto Mode makes it easy, even for co- to record good-looking digital images every time. The cam- which causes some static noise in the monitor screen im- automatically in accordance with subject brightness. recorded them. You can also configure the bundled Photo Loader application (page E-138) so it automatically positions each image using the orientation data stored with it.

1. Before turning on the camera, remove its lens cap.

2. Align the exposure mode dial with A (Full Auto Mode).

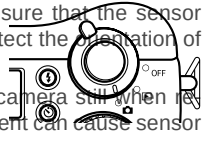
3. Align the drive mode dial with ▭ (1-Image).

4. Align the power/function switch with ◘.

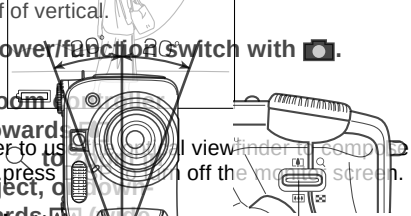
◘ : Turns on power and enters the REC mode.

▶ : Turns on power and enters the PLAY mode.

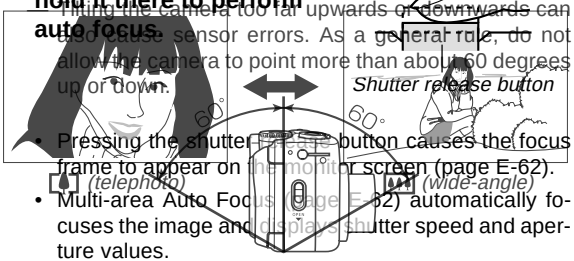
OFF : Turns off power.



5. When recording portrait orientation images, position the camera so it is standing up as straight as possible, as shown in the illustration below, holding the camera at an angle. You can also use a tripod. As a general rule, do not allow the camera to point more than about 20 degrees off of vertical.



6. Press the shutter release button about half way and hold it there to perform auto focus.



- Pressing the shutter release button causes the focus frame to appear on the monitor screen (page E-62).
- Multi-area Auto Focus (page E-62) automatically focuses the image and displays shutter speed and aperture values.

— The camera orientation sensor does not work with movie images.

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