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# Kodak EasyShare P850 zoom digital camera



## User's guide

[www.kodak.com](http://www.kodak.com)

For interactive tutorials, [www.kodak.com/go/howto](http://www.kodak.com/go/howto)

For help with your camera, [www.kodak.com/go/p850support](http://www.kodak.com/go/p850support)



Eastman Kodak Company

Rochester, New York 14650

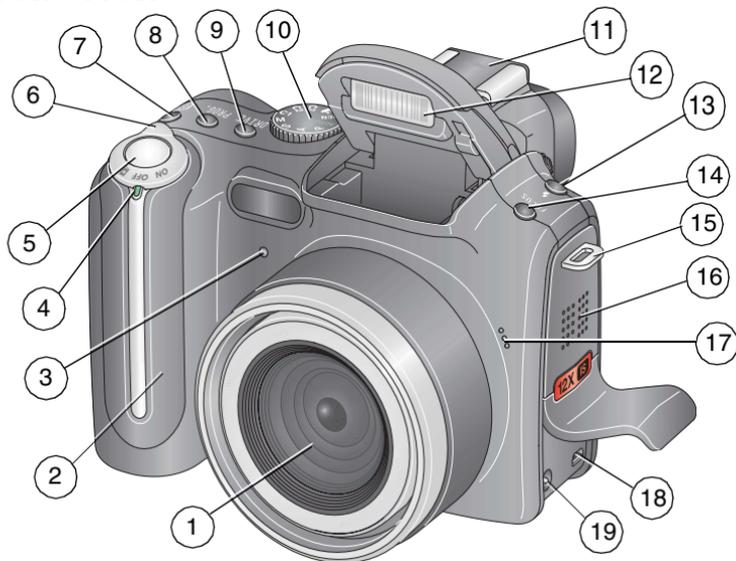
© Eastman Kodak Company, 2005

All screen images are simulated.

Kodak and EasyShare are trademarks of Eastman Kodak Company.

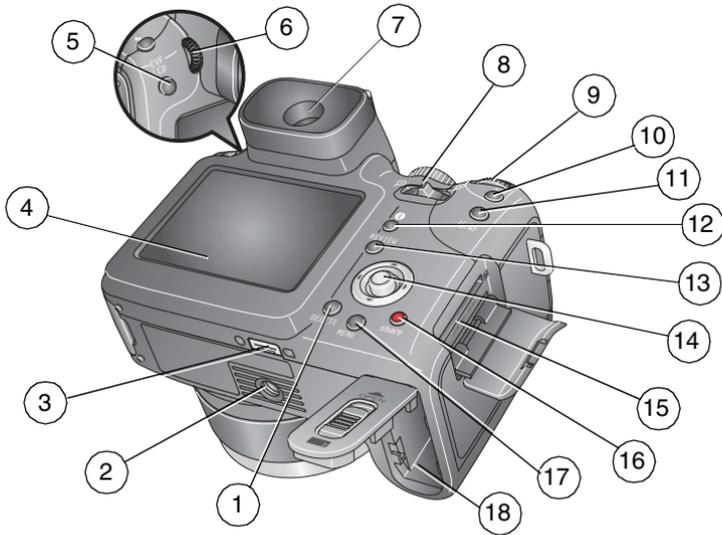
P/N 4J4341\_en

## Front View



- |    |                          |    |              |
|----|--------------------------|----|--------------|
| 1  | Lens                     | 11 | Hot shoe     |
| 2  | Grip                     | 12 | Flash        |
| 3  | Self-timer/Video light   | 13 | Flash button |
| 4  | LED indicator            | 14 | Focus button |
| 5  | Shutter button           | 15 | Strap post   |
| 6  | Mode /Power switch       | 16 | Speaker      |
| 7  | Exposure metering button | 17 | Microphone   |
| 8  | Program button           | 18 | USB, A/V Out |
| 9  | Drive button             | 19 | DC-In (5V)   |
| 10 | Mode dial                |    |              |

## Back View



- |                               |   |
|-------------------------------|---|
| 1 Delete button               | 10 Set button                               |
| 2 Tripod socket               | 11 AE/AF lock button                        |
| 3 Dock connector              | 12 Status button                            |
| 4 LCD screen                  | 13 Review button                            |
| 5 EVF/LCD toggle button       | 14 Joystick (◀/▶ ▲/▼); OK button (press in) |
| 6 Diopter dial                | 15 Slot for <b>optional</b> SD or MMC card  |
| 7 EVF (Electronic Viewfinder) | 16 Share button                             |
| 8 Zoom lever                  | 17 Menu button                              |
| 9 Command dial                | 18 Battery compartment                      |

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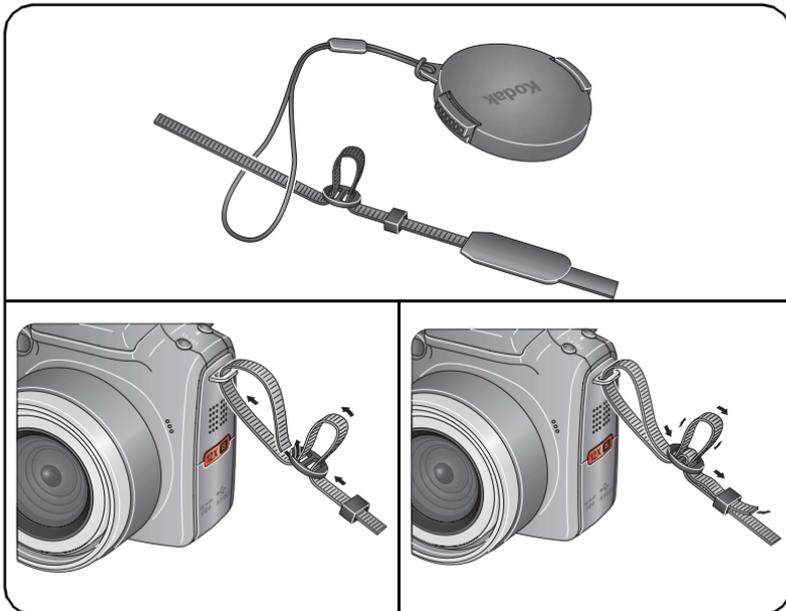
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# 1

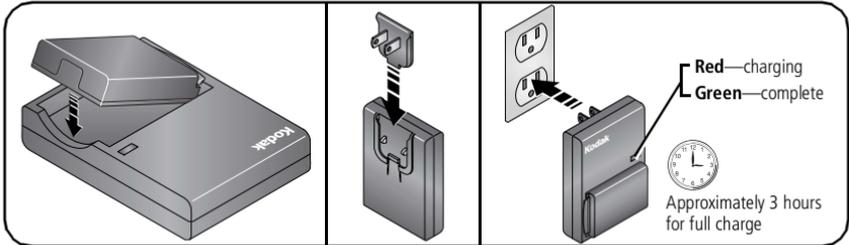
## Setting up your camera

### Attaching the lens cap and strap



## Charging the battery

Charge the Li-Ion rechargeable battery before first use.



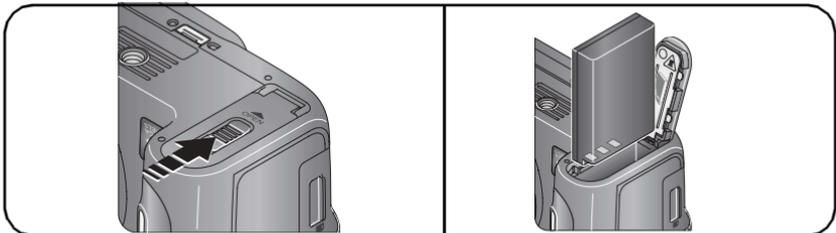
You can also charge the battery using a Kodak EasyShare printer dock or camera dock. Purchase these and other accessories at a dealer of Kodak products or visit [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories).

## Loading the battery



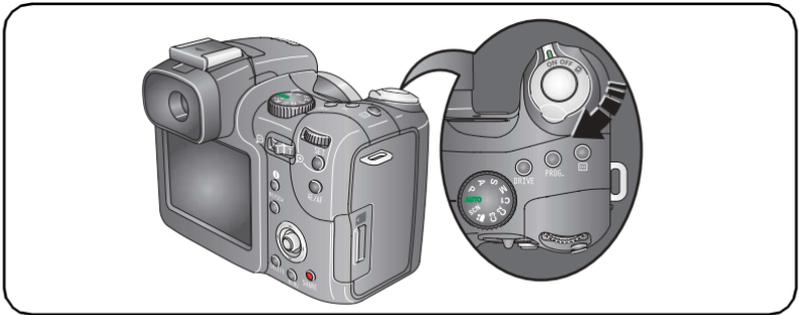
### CAUTION:

We recommend that you use a Kodak Li-Ion rechargeable battery (KLIC-5001).



For information on replacing the battery and extending battery life, see [page 86](#).

## Turning on the camera



- **ON** Capture: For taking pictures and videos.
-  Favorites: View your Favorites, see [page 65](#).

## Setting the language and date/time, first time



### Language:

- 1 Move  to choose a Language, then press OK.

### Date & Time:

- 1 Press OK.  
 to change.  
 for previous/next field.
- 2 Press OK to accept.

## Setting the language and date/time, other times



1 Press Menu.  
(Press again to exit.)

2 Move   to highlight Setup 

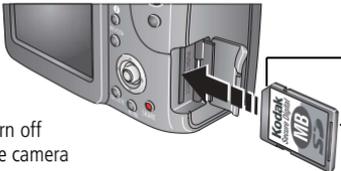
3   to highlight Language or Date/Time, then press OK.  
  
  to change.  
  for previous/next field.

4 Press OK.

## Storing pictures on an SD or MMC card

Your camera has 32 MB of internal memory. You can purchase a Kodak SD or MMC card to conveniently store more pictures and videos. For best results, purchase a Kodak card.

NOTE: When using the card for the first time, format it in this camera before taking pictures (see [page 49](#)).



1 Turn off the camera

2 Notched corner

SD or MMC card (optional)



### CAUTION:

**A card can only be inserted one way; forcing it may cause damage.**

See [page 80](#) for storage capacities. Purchase SD or MMC cards at a dealer of Kodak products or [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories).

# 2

## Taking pictures and videos

### Taking a picture

1 Turn the mode dial to **ON**.

2 Turn the mode dial to **Auto**.

3 Use the Diopter to adjust the sharpness of the Viewfinder.

4 Press Shutter button halfway to set the AE/AF. When the AE/AF indicator turns green, press the Shutter button completely down.

AF/AE indicator:  
● green—successful  
● red—failed  
● failed focus  
● failed exposure

### Taking a video

1 Turn the mode dial to **ON**.

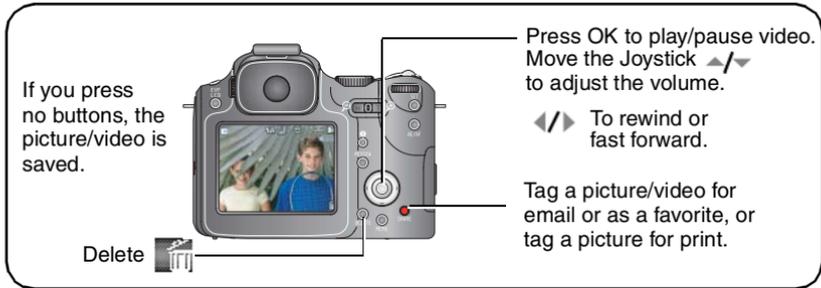
2 Turn the mode dial to **Video**.

3 Use the Diopter to adjust the sharpness of the Viewfinder.

4 Press the Shutter button completely down and release. To stop recording, press and release the Shutter button again.

## Reviewing a quickview of the picture or video just taken

After you take a picture or video, the EVF/LCD screen displays a Quickview for approximately 5 seconds. While the picture or video is displayed, you can:



If you press no buttons, the picture/video is saved.

Delete 

Press OK to play/pause video. Move the Joystick  to adjust the volume.

  To rewind or fast forward.

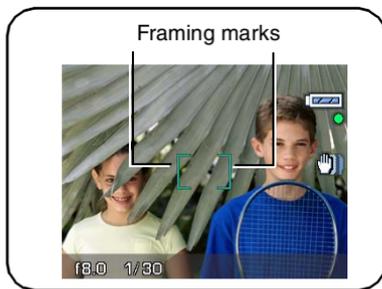
Tag a picture/video for email or as a favorite, or tag a picture for print.

To view pictures and videos anytime, see [page 11](#).

## Using the auto-focus framing marks (pictures)

When using the EVF/LCD screen as a viewfinder, framing marks indicate where the camera is focusing. For the best pictures, the camera attempts to focus on foreground subjects, even if the subjects are not centered in the scene.

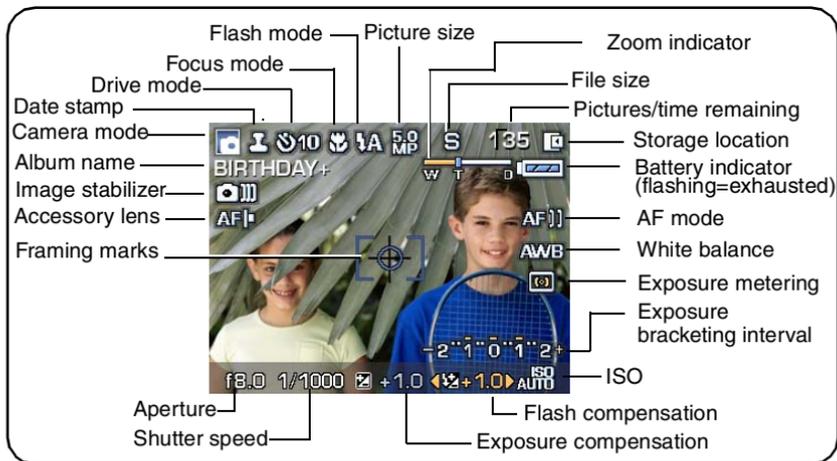
- 1 Press the Shutter button **halfway**. When the framing marks turn green, focus is accomplished.



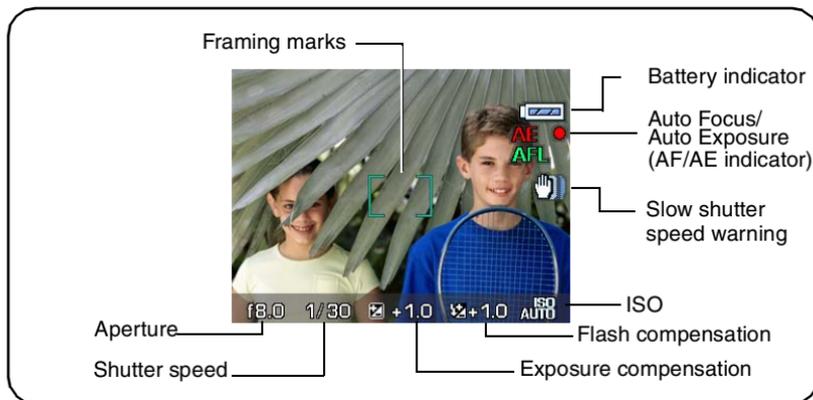
- 2 If the camera is not focusing on the desired subject (or if the framing marks disappear), release the Shutter button and recompose the scene.
- 3 Press the Shutter button **completely down** to take the picture.

NOTE: Framing marks do not appear in Landscape, Night Landscape, Fireworks, or Video mode. When you use AF Zone ([page 51](#)) and set Center Zone, the framing marks are fixed at Center Wide.

## Capture modes in liveview

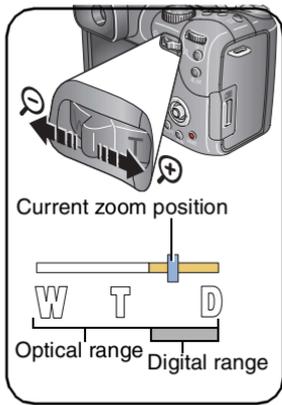


## Capture modes—shutter pressed halfway



## Using optical zoom

Use optical zoom to get up to 12X closer to your subject. You can change optical zoom before or during video recording.



- 1 Use the EVF or LCD screen to frame your subject.
- 2 Press Telephoto (T) to zoom in. Press Wide Angle (W) to zoom out.

*The Zoom indicator shows zoom status.*

- 3 Press the Shutter button **halfway** to set the exposure and focus, then **completely down** to take the picture. (When taking videos, press and release the Shutter button.)

## Using digital zoom

Use digital zoom in any Still mode to get an additional 3.3X magnification beyond optical zoom. Combined zoom settings are from 12X to 40X.

NOTE: To enable Advanced digital zoom, select this option in the Setup menu ([page 46](#)).

- 1 Press Telephoto (T) to the optical zoom limit (12X). Release the button, then press it again.

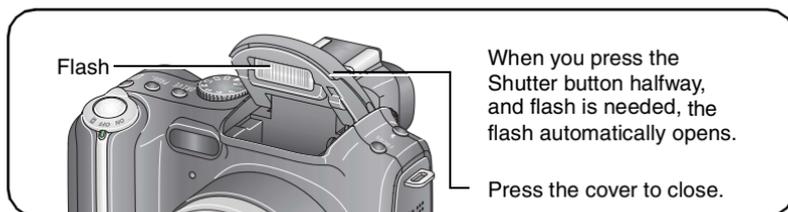
*The Zoom indicator shows zoom status.*

- 2 Take the picture.

NOTE: You cannot use digital zoom for video recording. You may notice decreased image quality when using digital zoom. The blue slider on the zoom indicator pauses and turns red when the picture quality reaches the limit for an acceptable 4 x 6 in. (10 x 15 cm) print.

## Using the flip-up flash

Use the flash when you take pictures at night, indoors, or outdoors in heavy shadows. Make sure you are within the flash range.



To change the flash settings, see [page 36](#).

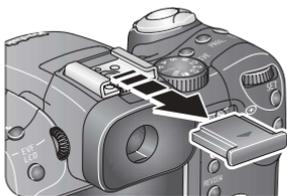
Flash-to-subject distance		
Zoom position	Guide number	Flash distance
Wide angle	11 (@ ISO 100) $\pm 0.5$ [EV]	2.9 ft–15.4 ft (0.9 m–4.7 m)
Telephoto	11 (@ ISO 100) $\pm 0.5$ [EV]	6.6 ft–11.8 ft (2.0 m–3.6 m)

## Using an external flash unit

Use an external flash unit when you want additional or specialized lighting (we recommend a Kodak external flash unit for fully automatic extended flash capabilities). You can use the camera's built-in flash, as well, to provide extra fill flash.

- 1 Slide off the Hot-shoe cover.
- 2 Mount the flash unit to the Hot shoe.
- 3 Turn on the external flash unit.

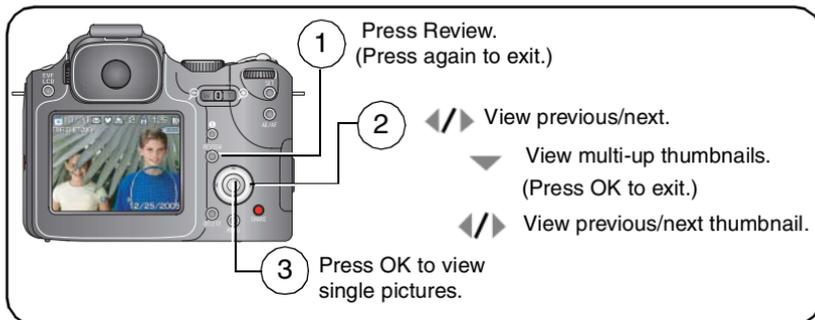
*The external flash unit is live when connected to the camera. The flash synchronizes at any shutter speed. Refer to your external flash unit user's guide for details.*



## Reviewing pictures and videos

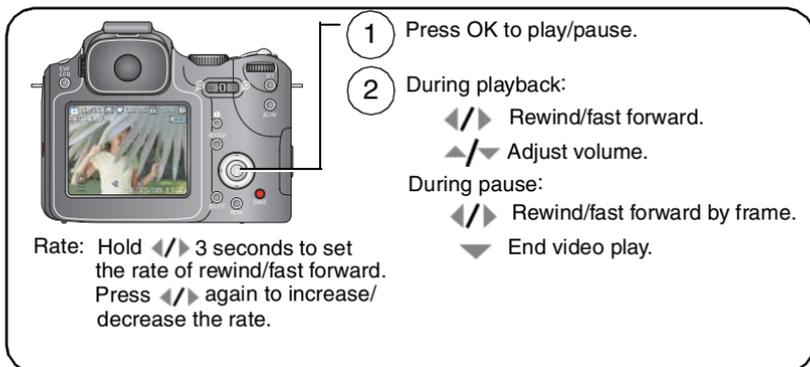
Press Review to view and work with your pictures and videos.

### Pictures



NOTE: Pictures taken at the 4.5 MP (3:2) quality setting are displayed at a 3:2 aspect ratio with a black bar at the top and bottom of the screen.

### Videos



To save battery power, use the optional Kodak EasyShare camera or printer dock, or Kodak 5-volt AC adapter. (See [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories).)

## Multi-selection of pictures during review

Use the Set button to create a set of pictures to review and to perform various functions, for example Delete (page 17), Protect (page 16), and Copy (page 57).

### Single-up

- 1 Press Review.  
(Press again to exit.)
- 2 Press Set.
- 3  to highlight a picture.  
To remove a picture from the set, press Set again.

10 of 20 selected  
pictures



To deselect the entire set, press review or turn off the camera.

### Multi-up

- 1 Press Review.  
(Press again to exit.)
- 2 Press .
- 3  and  to scroll through your pictures.
- 4 Press Set to select a picture.  
*A blue box appears around your picture.*
- 5 Scroll to the next picture.

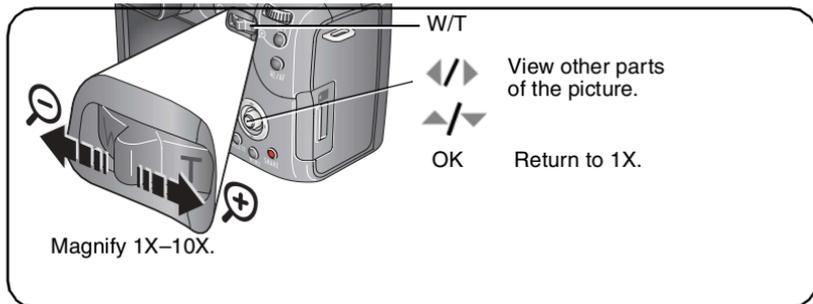


To deselect a picture, press Set again and the blue box disappears.

NOTE: Each time you press Set to select a picture, a blue box appears.

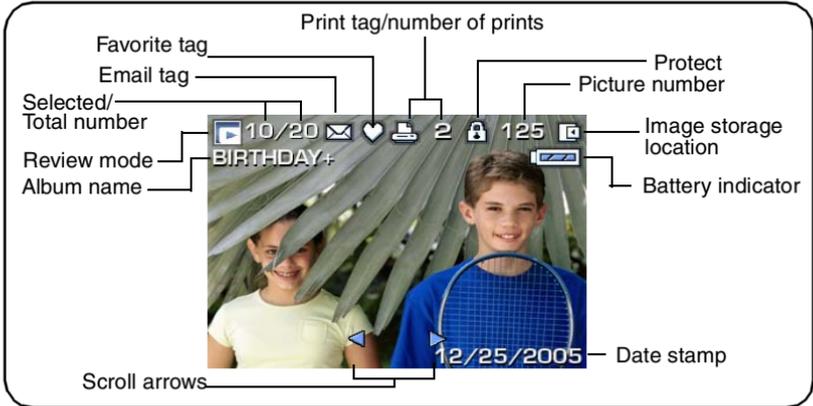
## Magnifying a picture during review

Use the Zoom lever to magnify your pictures.



## Identifying the review icons

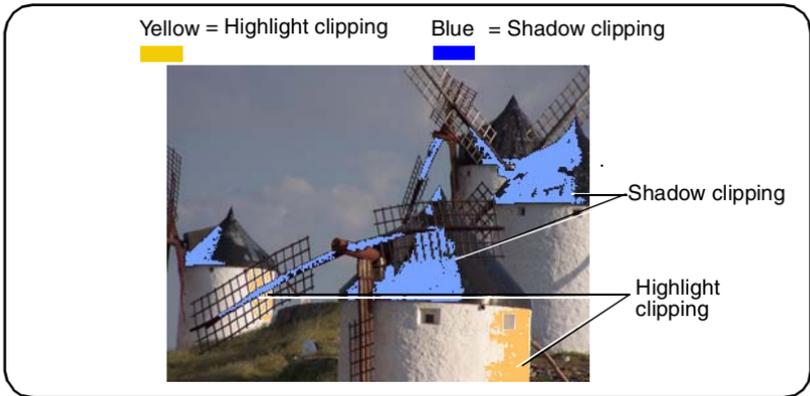
### Picture



### Video

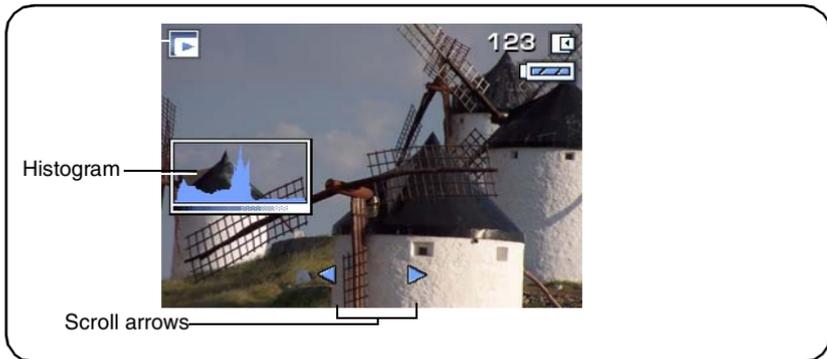


## Highlight/shadow clipping



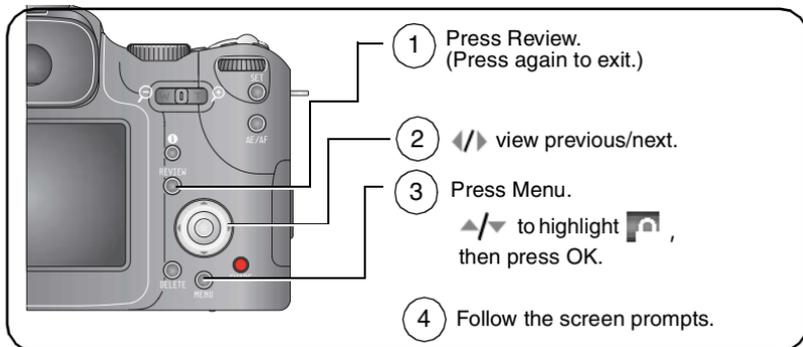
See Using highlight/shadow clipping on [page 41](#).

## Histogram



See Using the histogram on [page 41](#).

## Protecting pictures and videos from deletion



**PICTURE or VIDEO**—protects the displayed picture or video.

**EXIT**—exits the Protect screen.

**SELECTED**—protects selected pictures and videos from your current storage location.

**ALL**—protects all pictures and videos from your current storage location.

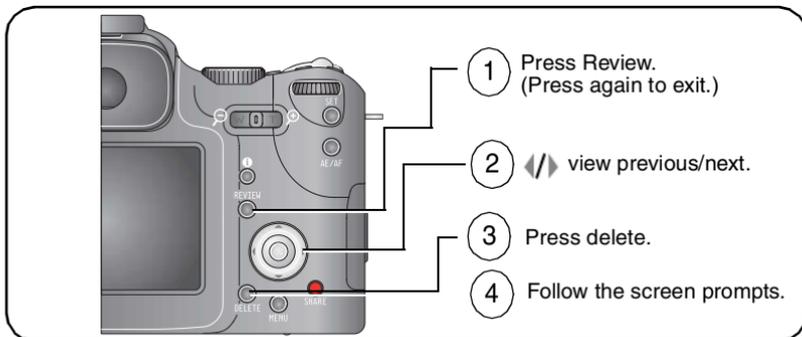
The picture or video is protected and cannot be deleted. The Protect icon appears with the protected picture or video.



### CAUTION:

**Formatting internal memory or an SD or MMC card deletes all (including protected) pictures, videos. (Formatting internal memory also deletes email addresses, album names, and favorites. To restore them, see EasyShare software Help.)**

## Deleting pictures and videos



**PICTURE or VIDEO**—deletes the displayed picture or video.

**EXIT**—exits the Delete screen.

**SELECTED**—deletes selected pictures and videos from your current storage location. You can scroll ◀▶ to verify selected pictures.

**ALL**—deletes all pictures and videos from your current storage location.

**NOTE:** To delete protected pictures and videos, remove protection before deleting.

# 3

## Transferring and printing pictures

### Installing the software



#### CAUTION:

**Install Kodak EasyShare software *before* connecting the camera or optional dock to the computer. Failure to do so may cause the software to load incorrectly.**

- 1 Close all software applications that are open on your computer.
- 2 Place the Kodak EasyShare software CD into the CD-ROM drive.
- 3 Load the software:

**Windows OS**—if the install window does not appear, choose Run from the Start menu and type **d:\setup.exe** where **d** is the drive letter that contains the CD.

**Mac OS X**—double-click the CD icon on the desktop, then click the Install icon.

- 4 Follow the on-screen instructions to install the software.

**Windows OS**—select Complete to automatically install the most commonly used applications. Select Custom to choose the applications you wish to install.

**Mac OS X**—follow the on-screen instructions.

NOTE: When prompted, register your camera and software. Registering lets you sign up for information that keeps your system up-to-date. To register later, see [www.kodak.com/go/register](http://www.kodak.com/go/register).

- 5 If prompted, restart the computer. If you turned off anti-virus software, turn it back on. See the anti-virus software manual for details.

For information on the software applications included on the Kodak EasyShare software CD, click the Help button in the Kodak EasyShare software.

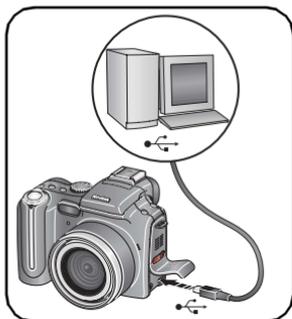
## Transferring pictures

You can transfer pictures to your computer using an USB cable (U-8), EasyShare dock, or Kodak multi-card reader/Kodak SD multimedia card reader-writer.

Purchase these and other accessories at a dealer of Kodak products or [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories).

### Transferring pictures with a USB cable, model U-8

If your package does not include an EasyShare dock, use the USB cable (model U-8) that came with your camera.



- 1 Turn off the camera.
- 2 Plug the labeled  end of the USB cable into the labeled USB port on your computer. See your computer user's guide for details.
- 3 Plug the other end of the USB cable into the labeled USB port on the camera.
- 4 Turn on the camera.

*Kodak EasyShare software opens on your computer. The software prompts you through the transfer process.*

NOTE: Visit [www.kodak.com/go/howto](http://www.kodak.com/go/howto) for an online tutorial on connecting.

### Transferring pictures with an EasyShare dock

If your package includes an EasyShare dock, use it to transfer pictures to your computer. (For details, see the dock user's guide. To purchase accessories, see [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories). For dock compatibility, see [page 23](#).)

## Printing from a Kodak EasyShare printer dock or your computer

Printer dock—Dock your camera to the Kodak EasyShare printer dock and print directly with or without a computer. For dock compatibility for your camera, see [page 23](#). Purchase this and other accessories at a dealer of Kodak products or [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories).

**Computer**—Click the Help button in the Kodak EasyShare software.

## Printing from an optional SD or MMC card

- Automatically print tagged pictures when you insert your card into a printer with an SD or MMC card slot. See your printer user's guide for details.
- Make prints at an SD or MMC card-capable Kodak picture maker. (Contact a location prior to visiting. See [www.kodak.com/go/picturemaker](http://www.kodak.com/go/picturemaker).)
- Take the card to your local photo retailer for professional printing.

## Ordering prints online

Kodak EasyShare gallery, [www.kodakgallery.com](http://www.kodakgallery.com), (formerly Ofoto) is one of the many online print services offered in the Kodak EasyShare software. You can easily:

- Upload your pictures.
- Edit, enhance, and add borders to your pictures.
- Store pictures, and share them with family and friends.
- Order high-quality prints, photo greeting cards, frames, and albums—and have them delivered to your door.

## Direct printing with a PictBridge enabled printer

Your camera features PictBridge technology, which lets you print directly to PictBridge enabled printers, without a computer. You need:

- Camera with fully charged batteries, or with optional Kodak 5-volt AC adapter
- PictBridge enabled printer
- USB cable (U-8)

## Connecting the camera to the printer

- 1 Turn off the camera and printer.
- 2 Optional: If you have a Kodak 5-volt AC adapter (optional accessory), plug it into the camera and into an electrical outlet.
- 3 Using a USB cable for your camera, connect the camera to the printer. (See your printer user's guide for details.)

## Printing pictures

NOTE: Raw and TIFF files are not directly printable (see [page 55](#)).

- 1 Turn the Mode switch to **ON** or .
- 2 Turn on the printer.

*The PictBridge logo is displayed, followed by the current picture and menu. (If no pictures are found, a message is displayed.) If the menu interface turns off, press any button to redisplay it.*

- 3 Move the Joystick  to choose a printing option, then press the OK button.

NOTE: During direct printing, pictures are not permanently transferred or saved to the computer or printer.

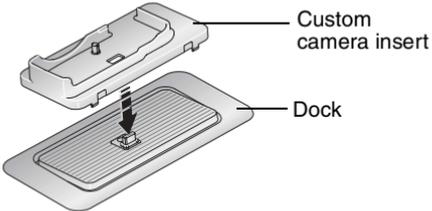
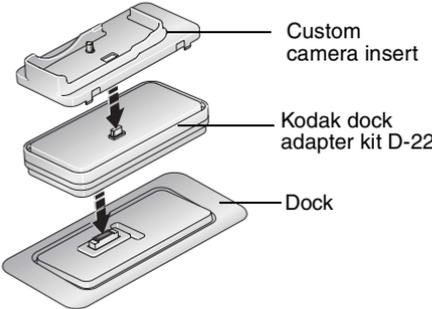
<b>Current Picture</b>	Press  /  to choose a picture. Choose the number of copies.
<b>Tagged Pictures</b>	If your printer is capable, print pictures that you tagged for printing (see <a href="#">page 62</a> ) and choose a print size.
<b>Index Print</b>	Print thumbnails of all pictures. This option requires one or more sheets of paper. If the printer is capable, choose a print size.
<b>All Pictures</b>	Print all pictures in internal memory, on a memory card, or in Favorites. Choose the number of copies.
<b>Image Storage</b>	Access internal memory, a memory card, or Favorites.

NOTE: If you turned the Mode dial to Favorites, the current favorite picture is displayed.

## Disconnecting the camera from the printer

- 1 Turn off the camera and printer.
- 2 Disconnect the USB cable from the camera and printer.

## Dock compatibility for your camera

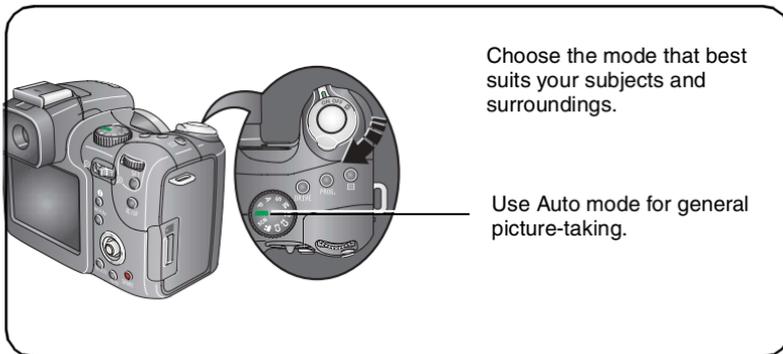
Kodak EasyShare dock	Docking configuration
<ul style="list-style-type: none"><li>Series 3 printer docks and camera docks</li></ul>	 <p>The diagram shows a custom camera insert being inserted into a dock. The insert is a small, rectangular component with a lens and a flash. The dock is a larger, rectangular component with a recessed area for the insert. Labels point to the 'Custom camera insert' and the 'Dock'.</p>
<ul style="list-style-type: none"><li>printer dock</li><li>printer dock plus</li><li>printer dock 6000</li><li>camera dock 6000</li></ul>	 <p>The diagram shows a custom camera insert being inserted into a Kodak dock adapter kit D-22. The adapter kit is a rectangular component with a recessed area for the insert. The adapter kit is then inserted into a dock. Labels point to the 'Custom camera insert', the 'Kodak dock adapter kit D-22', and the 'Dock'.</p>
<ul style="list-style-type: none"><li>printer dock 4000</li><li>camera dock II</li><li>LS420, LS443 camera dock</li></ul>	Not compatible

Purchase camera docks, printer docks, and other accessories at a dealer of Kodak products or [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories).

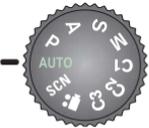
# 4

## Doing more with your camera

### Picture-taking modes



Use this mode	For
	Mode Switch—Capture and Favorites.
<b>ON</b> Capture	Taking pictures and videos.
 Favorites	Viewing your favorites (see <a href="#">page 64</a> ).

Use this mode	For
	<p>Mode Dial—10 settings.</p>
<p><b>AUTO</b></p>	<p>General picture-taking—offers an excellent balance of image quality and ease-of-use.</p>
<p><b>P</b> <b>Program</b></p>	<p>Controlling exposure compensation, flash compensation (how much light enters the camera), and ISO speed. The camera automatically sets the shutter speed and aperture (f-stop) based on the scene lighting. Program mode offers the ease of auto shooting with full access to all menu options. Use the Command dial and Set button to select and adjust settings (see <a href="#">page 38</a>). Press the Menu button to change other settings.</p>
<p><b>A</b> <b>Aperture Priority</b></p>	<p>Controlling aperture, exposure compensation, flash compensation and ISO speed. Aperture priority mode is primarily used to control depth of field (the range of sharpness).</p> <p>NOTE: The aperture setting may be affected when using optical zoom. Use the Command dial and Set button to select and adjust settings (see <a href="#">page 38</a>). Press the Menu button to change other settings.</p>
<p><b>S</b> <b>Shutter Priority</b></p>	<p>Controlling shutter speed, exposure compensation, flash compensation and ISO speed. The camera automatically sets the aperture for proper exposure. Shutter priority mode is primarily used to prevent blur when your subject is moving. To prevent camera shake, use a tripod for slow shutter speeds. Use the Command dial and Set button to select and adjust settings (see <a href="#">page 38</a>). Press the Menu button to change other settings</p>

Use this mode	For
<b>M</b> Manual	Enjoying the highest level of creative control. You can set the aperture, shutter speed, flash compensation, and ISO speed. Exposure compensation acts as an exposure meter, recommending the proper combination of aperture and shutter speed to produce an acceptable exposure. To prevent camera shake, use a tripod for slow shutter speeds. Use the Command dial and Set button to select and adjust settings (see <a href="#">page 38</a> ). Press the Menu button to change other settings.
<b>C1</b> Custom	A “user-created” mode that lets you save settings in PASM mode. Use the Command dial and Set button to select and adjust settings (see <a href="#">page 38</a> ).
<b>C2</b> Custom	If you created settings in another mode, you can transfer them to any of the C modes using Copy to Custom (see <a href="#">page 52</a> ).
<b>C3</b> Custom	
<b>SCN</b> Scene	Point-and-shoot simplicity when taking pictures under 16 special conditions (see <a href="#">page 27</a> ).
 Video	Capturing video with sound (see <a href="#">page 5</a> ).

## Scene modes

- 1 Turn the Mode dial to Scene **SCN**.
- 2 Move the Joystick     to display Scene mode descriptions.

NOTE: If the Help text turns off, press the OK button.

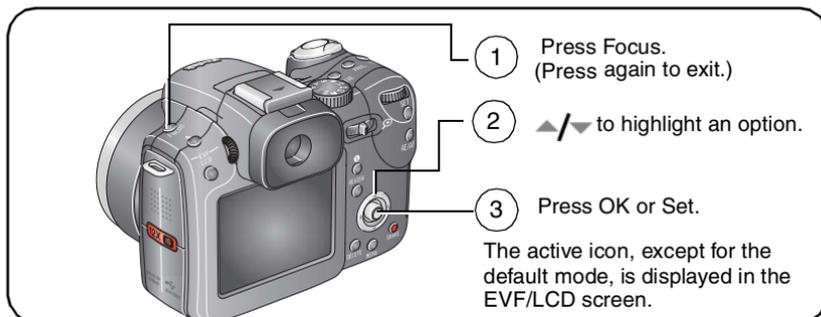
- 3 Press the OK button to choose a Scene mode.

Use this SCN mode	For
 <b>Portrait</b>	Full-frame portraits of people. Use Telephoto to reduce focus of distracting background.
 <b>Self-Portrait</b>	Close-ups of yourself. Assures proper focus and minimizes red eye.
 <b>Sport</b>	Subjects that are in motion. Shutter speed is fast.
 <b>Landscape</b>	Distant subjects. Flash does not fire unless you turn it on. Auto-focus framing marks ( <a href="#">page 7</a> ) are not available in Landscape.
 <b>Night Landscape</b>	Distant scenery at night. Flash does not fire. Place the camera on a flat, steady surface or use a tripod.
 <b>Night Portrait</b>	Reduces red eye of people in night scenes or low-light conditions. Place the camera on a flat, steady surface or use a tripod.
 <b>Sunset</b>	Preserves the deep hues seen in sunsets.
 <b>Backlight</b>	Subjects that are in shadow or “backlit” (when light is behind the subject).
 <b>Candle light</b>	Captures the ambiance of the candle light.
 <b>Flower</b>	Close-ups of flowers or other small subjects in bright light.

Use this SCN mode	For
 <b>Text</b>	Documents.
 <b>Manner/ Museum</b>	Quiet occasions, like a wedding or lecture. Flash and sound are disabled.
 <b>Party</b>	People indoors. Minimizes red eye.
 <b>Snow</b>	Bright snow scenes.
 <b>Beach</b>	Bright beach scenes.
 <b>Fireworks</b>	Flash does not fire. Place the camera on a flat, steady surface or use a tripod.

## Using the focus button

Set the focus for close-up and far-away scenes. Some settings may be unavailable in some modes.

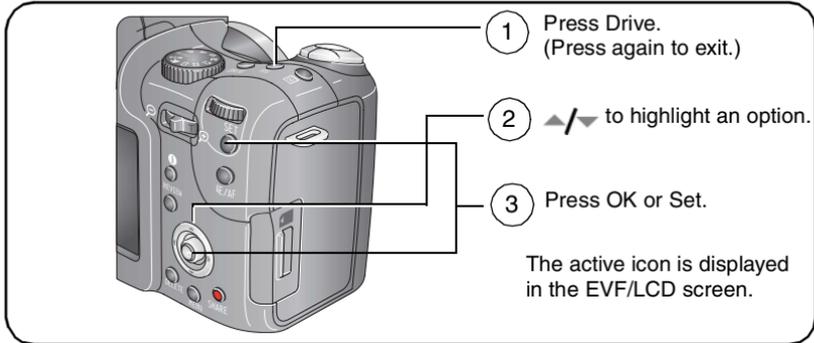


NOTE: For rapid setting changes, see [page 40](#).

Focus mode	Description
 <b>Normal AF (default)</b>	Focus setting for general picture-taking.
 <b>Macro AF</b>	Sharpness and detail in pictures at close range. Use available light instead of flash, if possible. The camera automatically sets the focus distance depending on the zoom position. The close-up distances are: Wide angle: 3.9 in.–35.4 in. (10 cm–90 cm) Telephoto: 35.4 in.–6.6 ft (90 cm–2.0 m)
 <b>Landscape</b>	Distant subjects. Auto-focus framing marks are unavailable. Flash is forced off.
 <b>Manual</b>	Focus is at center position. A magnified image appears in the center of the screen when using the Joystick ▲/▼ to set the focus adjustment. A graphic shows the approximate degree of focus.

## Using the drive mode for self-timer, burst, exposure bracketing

Some settings may be unavailable in some modes.



NOTE: For rapid setting changes, see [page 40](#). For determining burst capacity, see [page 32](#). Raw and TIFF are unavailable in Burst.

Drive mode		Description
Single		Camera takes one picture.
	<b>Self-timer</b> (10 sec)	A 10-second delay to put yourself into the picture. Place camera on a tripod or flat surface.
	<b>Shutter Delay</b> (2 sec)	A 2-second delay allows for a steady, auto-shutter release on a tripod.
	<b>First Burst</b> Flash forced off.	Camera takes a series of pictures while the Shutter button is pressed. To determine the quantity saved, see <a href="#">page 32</a> . Capture an expected event e.g., a person swinging a golf club.
	<b>Last Burst</b> Flash forced off.	Camera takes a series of pictures while the Shutter button is pressed. When the Shutter button is released, only the last 5 pictures are saved. (Capture an event when the precise timing is uncertain e.g., a child blowing out birthday candles.)

Drive mode		Description
	<b>Exposure Bracketing 3</b> Flash forced off.	Camera takes 3 pictures at intervals of 1/3, 2/3, and 1.0 EV. Determine the best exposure level for your conditions based on your evaluation of 3 pictures. For using exposure compensation with exposure bracketing, see <a href="#">page 38</a> .
	<b>Exposure Bracketing 5</b> Flash forced off.	Camera takes 5 pictures at intervals of 1/3, 2/3, and 1.0 EV. Determine the best exposure level for your conditions based on your evaluation of 5 pictures.
	<b>Time Lapse</b>	Camera takes specified number of pictures (2–99) at specified intervals (10 seconds–24 hours; 60 seconds–24 hours in TIF & RAW).

- 1 Set the Drive mode to the desired option, [page 30](#).
- 2 Press the Shutter button **halfway** to set the AE/AF.
- 3 For all settings, except Burst, press the Shutter button **completely down** to take the picture.

For Burst settings, press the Shutter button **completely down and hold it**. The camera stops taking pictures when you release the Shutter button, all pictures are taken, or there is no more storage space.

NOTE: To cancel self-timer and shutter delay during countdown, press the Shutter button again.

NOTE: During Quickview, you can delete all pictures in the burst series. To delete selectively, do so in Review (see [page 17](#)).

## Determining the burst capacity

The quantity of burst depends on the quality mode and the rate of compression. For information on picture compression, see [page 43](#).

Quality mode	Resolution	Compression	Quantity
5.0 MP	2592 x 1944	RAW	0
		TIFF	0
		Fine	5
		Standard	8
		Basic	12
4.5 MP (3:2)	2592 x 1728	TIFF	0
		Fine	5
		Standard	8
		Basic	13
3.1 MP	2048 x 1536	TIFF	0
		Fine	7
		Standard	12
		Basic	18
2.1 MP	1664 x 1248	TIFF	0
		Fine	10
		Standard	17
		Basic	26
1.2 MP	1280 x 960	TIFF	0
		Fine	16
		Standard	27
		Basic	40

## Using the AE/AF button

6 Press AE/AF. (Press again to unlock.)

- 1 Press Menu. (Press again to exit.)
- 2 to highlight Setup Menu .
- 3 to highlight Set AE/AF Lock Button.
- 4 Press OK.
- 5 to highlight an option; press OK.

NOTE: For rapid setting changes, see [page 40](#).

AE/AF lock mode	Description
(default)	Exposure setting is independent of pressing the Shutter button. This allows for creative compositions and exposure situations. Retains the settings and prevents someone from accidentally changing them.
	Use focus lock to obtain exact focus subject and situations where AF may not work. Allows for creative compositions and focus situations. Examples: Low-contrast scenes: subject is wearing clothing that is the same color as the background. Patterned subject or scene: building windows, subjects with horizontal stripes, animal in a cage, person in a forest, etc. Extreme differences in brightness within the framing marks: light is in the background and main subject is in shadow.
	Use when you want to control both exposure and focus independent of pressing the Shutter button.

## Taking pictures using the AF lock

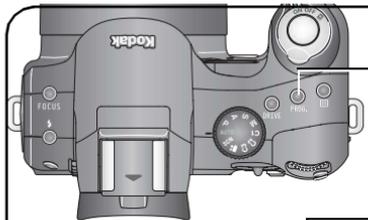
For special situations where AF may not work ([page 33](#)):

- 1 Set the AE/AF Lock button to AF.
- 2 Place the Framing marks on the main subject.
- 3 Press the AE/AF Lock button.
- 4 Recompose the picture and press the Shutter button **halfway** to lock the exposure position.
- 5 Press the Shutter button **completely down** to take the picture.

NOTE: The AF lock function lets you release the Shutter button to recompose the picture.

## Using the program button

You can program this button in Capture and Review. The button is a shortcut to your favorite settings. For example, if you frequently adjust the White balance settings, you can program this button to bring up the White balance sub-menu—no need to access the menu to search for it. The Program button may be unavailable in some modes.



NOTE: The Program button assignment is kept until you change it in Setup menu or reprogram it by holding the Program button.



### Program the button

- 1 In Capture or Review, press Program to bring up a sub-menu. (Press again to exit.)
  - 2 ▲/▼ to highlight a setting.
  - 3 Press OK or Set.
- Press the Program button 3 seconds to access your favorite shortcut setting.

NOTE: For rapid setting changes, see [page 40](#).

## Program capture settings

Pressing the Program button in Capture, after program setup, allows for direct access to the sub-menus and, if necessary, right-hand access to the flash and focus menus.

Shortcut menu selections	
Flash button	AF control
Focus button	AF focus zone
Picture size	Sharpness
File type	Contrast
Color mode	Slow flash setup
Date stamp	Copy to C Mode
White balance	Custom exposure mode
Custom white balance	

## Program review settings

Pressing the Program button in Review, after program setup, allows for direct access to these review functions without navigating the menu.

Shortcut menu selections	
View	Slide show
Album	Copy
Protect	Video date display
Edit	Multi-up (can also be set at main menu)
Red-eye reduction	

## Changing the flash settings



The active icon is displayed in the EVF/LCD screen.

- 1 Press .  
(Press again to exit.)
- 2 / to highlight an option.
- 3 Press OK or Set.

Blinking indicates the flash is charging. Take the picture when the blinking stops.

NOTE: Flash settings are preset for each picture-taking mode. Some of the flash settings may not be available in all Capture or SCN modes. When you change to Auto or Red-eye in some of these modes, it becomes the default until you change it.

NOTE: For rapid setting changes, see [page 40](#).

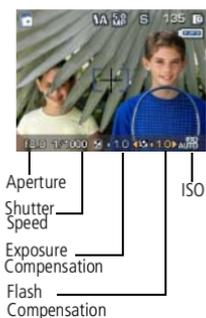
Flash mode	Flash fires
<b>Auto</b>	When the lighting conditions require it.
<b>Fill</b>	Every time you take a picture, regardless of the lighting conditions. Use when the subject is in shadow or is "backlit" (when the light is behind the subject). In low light, hold the camera steady or use a tripod.
<b>Redeye</b>	Once, so the subject's eyes become accustomed to the flash, then fires again when the picture is taken. (If the lighting conditions require flash but do not require Red-eye reduction, the flash may fire only once.)
<b>Slow front sync</b>	Regardless of the shutter speed and right after the shutter fully opens. Only useful when slower shutter speeds are used. For other slow-flash settings, see <a href="#">page 52</a> .
<b>Off</b>	Never.

## PASM and C1, C2, C3 modes

Settings you change in C modes apply only to pictures taken in those modes.

For example, if you change the Color Mode to Sepia while in C mode, you still retain the default setting of Color for Auto and SCN modes.

**NOTE:** The settings, including Flash, are maintained for PASM and C modes—even when you change modes or turn off the camera. Use Reset Camera (see [page 48](#)) to reset PASM to its default setting.



**Aperture**—also known as f-stop or f-number, controls the size of the lens opening, which determines the depth of field. Smaller f-numbers, for example f/2.8, refer to a bigger lens opening. Larger f-numbers, for example f/8, refer to a smaller lens opening.

Larger f-numbers keep the main subject sharp; good for landscapes and well-lit conditions. Smaller f-numbers are good for portraits and low-light conditions. The highest and lowest aperture numbers may be affected by optical zoom.

**Shutter Speed**—controls how long the shutter stays open. A shaking hand icon  warns of slow shutter speeds. (Use a tripod for slow shutter speeds.)

**Exposure Compensation**—lets you manually adjust the exposure (+/- 2.0 in 1/3 step); good for controlling backlit or non-standard scenes. If the picture is too light, decrease the setting; if it's too dark, increase the setting.

**Flash Compensation**—controls the flash brightness  $\pm 1.0$  in 1/3 EV steps. You must be within flash range. Unavailable if flash setting is Off.

**ISO**—controls sensitivity of the camera sensor. Higher settings are more sensitive to light, but may produce unwanted “noise” in a picture. You can only use ISO 800 if you are in the 1.2 MP Picture Size setting (see [page 43](#)).

## Changing PASM or C1, C2, C3 mode settings

PASM and C modes control the f-number (aperture), shutter speed, exposure compensation, and flash compensation.



PASM & C mode options

White—selectable

Blue—non-selectable

Yellow—changeable value

Red—out-of-range

- 1 Turn the Mode dial to P, A, S, M, or C1, C2, C3.
- 2 Use the Command dial and Set button:
  - Turn the Command dial to move the selection arrow between the available settings.  
NOTE: For C1, C2, or C3, choose custom exposure setting (PASM) in the Menu, see [page 50](#).
  - Press the Set button to open a setting.
  - Turn the Command dial to adjust the setting, then press Set to close.
- 3 Press the Menu button to change other settings (see [page 42](#)).
- 4 Take a picture.

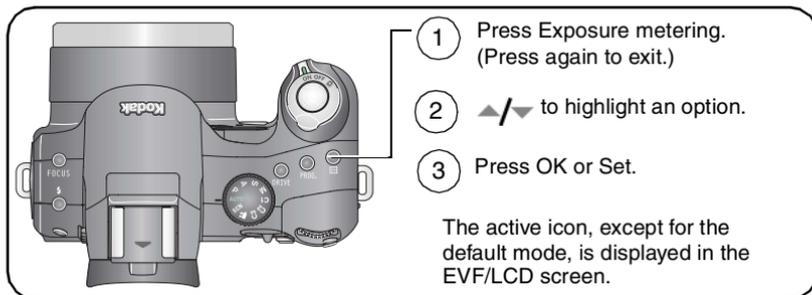
## Using exposure compensation with exposure bracketing

In PASM modes, you can use exposure compensation in conjunction with exposure bracketing.

If the exposure compensation is set to:	And if the exposure bracketing interval is set to 3 steps:	Then the exposures taken are:
0.0	Set the drive mode to Exposure bracketing 3 (see <a href="#">page 30</a> )	-0.3, 0.0, +0.3
+1.0		+0.7, +1.0, +1.3
-1.0		-1.3, -1.0, -0.7

## Using exposure metering

Choose a metering system in PASM or C1, C2, C3 mode for the appropriate lighting of your subject.



NOTE: For rapid setting changes, see [page 40](#).

Icon	Exposure metering options
	<b>Multi-Pattern (default)</b> —evaluates the lighting conditions at various points throughout the image to give an optimum picture exposure. Ideal for general picture taking.
	<b>Center-Weighted</b> —evaluates the brightness over a wide area with emphasis on the center of the screen.
	<b>Center-Spot</b> —similar to Center-weighted, except the metering is concentrated on a smaller area of the subject centered in the viewfinder. Ideal when you need an exact exposure of a specific area in the picture.
	<b>Selectable Zone</b> —creates an exposure-metering setting from 1 of 25 selected screen locations. If used with Selectable Focus Zone (see <a href="#">page 51</a> ) they track together. Use <b>◀/▶</b> <b>▲/▼</b> to move the cross-hair graphic to the desired zone.

## Using the command dial for rapid setting changes

Use the Command dial in combination with other buttons for rapid setting changes.



Command dial

- Hold a function button and rotate the Command dial for rapid function capabilities.
- Release the function button to close the menu.

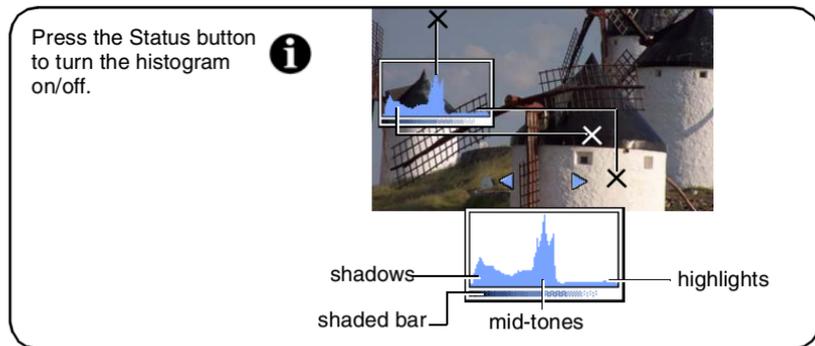
You can also use the Command dial to adjust manual settings in PASM modes, see [page 38](#).

### Function buttons that provide rapid setting changes:

• Flash button ( <a href="#">page 36</a> )	• Exposure metering button ( <a href="#">page 39</a> )
• Focus button ( <a href="#">page 29</a> )	• Program button ( <a href="#">page 34</a> )
• Drive button ( <a href="#">page 30</a> )	

## Using the histogram

In Capture or Review, the histogram shows the distribution of the subject's brightness. If the peak is to the right of the graph, the subject is bright; if it's to the left, the subject is dark (see shaded bar). Optimal exposure is usually achieved when the peak is in the middle of the histogram. Available only in PASM and C modes.



## Using highlight/shadow clipping

In review, you can view the clipped areas of the picture to see detail in highlights and shadows that correspond to underexposure and overexposure. It's normal to have some highlight and shadow clippings because of the wide range of reflectance within a scene. If large amounts of the scene show clipping, adjust the exposure in PASM modes by changing, for example, the aperture or shutter-speed setting.



## Changing picture-taking settings

You can change settings to get the best results from your camera:

- 1 Press the Menu button (press again to exit).
- 2 Move the Joystick  to highlight a menu tab —
  -  **Capture** for general picture-taking settings of stills.
  -  **Video** for video camera settings.
  -  **Setup** for customizing your camera settings.
  -  **Capture+** for advanced picture-taking settings.  
(Only available in PASM and C settings.)
- 3 Move the Joystick  to highlight the setting you wish to change, then press the OK button.
- 4 Choose an option, then press the OK button.

## Still menu options

### Capture

Some settings are unavailable in Auto and SCN modes.

Setting	Icon	Options that appear in Liveview
<p><b>Picture Size</b> Choose a picture resolution. <i>This setting remains until you change it.</i></p>		<p><b>5.0 MP (default)</b>—for printing up to 20 x 30 in. (51 x 76 cm); pictures are highest resolution and largest file size.</p> <p><b>4.5 MP (3:2)</b>— ideal for printing 4 x 6 in. (10 x 15 cm) prints without cropping. Also for printing up to 20 x 30 in. (51 x 76 cm)</p> <p><b>3.1 MP</b>— for printing up to 11 x 14 in. (28 x 36 cm); pictures are medium resolution with smaller file size.</p> <p><b>2.1 MP</b>—for printing up to 8 x 10 in. (20 x 25 cm); pictures are medium resolution with smaller file size.</p> <p><b>1.2 MP</b>—for printing 4 x 6 in. (10 x 15 cm) prints, emailing, Internet, screen display, or for conserving space.</p>
<p><b>File Type</b> Compressed data, other than RAW or TIFF, to reduce storage (memory) space or transmission times. <i>This setting remains until you change it.</i></p>		<p><b>Fine</b>—JPEG, less compression, better quality.</p> <p><b>Standard (default)</b>—JPEG, standard compression.</p> <p><b>Basic</b>—JPEG, more compression, lowest quality.</p> <p><b>RAW</b>—Unprocessed image data in its original state to which white balance, sharpness, contrast, etc., have not been applied. To create a printable file for printing, see <a href="#">page 55</a>.</p> <p><b>TIFF</b>— Uncompressed format used for saving highly detailed image data. Ideal for software programs for scanners and graphics applications.</p>

Setting	Icon	Options that appear in Liveview
<p><b>Color Mode</b> Choose color tones. <i>This setting remains until you turn the Mode dial or turn off the camera.</i></p>		<p><b>High Color</b> <b>Natural Color (default)</b> <b>Low Color</b> <b>Black &amp; White</b> <b>Sepia</b></p> <p>NOTE: EasyShare software lets you change a color picture to black &amp; white or sepia. But you cannot restore a black &amp; white or sepia picture to color, except with a RAW file.</p> <p>Unavailable in Video mode.</p>
<p><b>Date Stamp</b> Imprint the date on pictures.</p>		<p>Choose a date option, or turn off the feature. (Default is off.)</p>

## Video menu options

### Video

Some settings are unavailable in Auto and SCN modes.

Setting	Icon	Options that appear in Liveview
<p><b>Video Size</b> Choose a video resolution. <i>This setting remains until you change it.</i></p>		<p><b>640 x 480</b>—higher resolution and file size. Video plays in a 640 x 480 pixel window (VGA).</p> <p><b>320 x 240</b>—lower resolution and file size. Video plays in a 320 x 240 pixel window (QVGA).</p>
<p><b>Video Length</b> Choose a video duration. <i>This setting remains until you turn off the camera.</i></p>		<p><b>Continuous (default)</b>—as long as there is room on the card or internal memory, or until you press the Shutter button.</p> <p><b>5, 15, or 30</b> seconds</p>
<p><b>AF Control</b> Choose an auto-focus setting. <i>This setting remains until you change it.</i></p>		<p><b>Continuous AF (default)</b>—uses external AF sensor and TTL-AF (Through-The-Lens). Because the camera is always focusing, there is no need to press the Shutter button halfway down to focus.</p> <p><b>Single AF </b>—uses external AF sensor and TTL-AF when the Shutter button is pressed halfway down.</p>

## Setup menu options

### Setup

Setting	Icon	Options
<b>LCD Brightness</b> Adjust the brightness of the LCD screen.		<b>1, 2, 3 (default), 4, or 5</b>
<b>Image Storage</b> Choose a storage location for pictures and videos. <i>This setting is unavailable in Favorites mode.</i> <i>This setting remains until you change it.</i>		<b>Auto (default)</b> —the camera uses the card if one is in the camera. If not, the camera uses internal memory. <b>Internal Memory</b>  —the camera always uses internal memory, even if a card is installed.
<b>Set Album (Still, Video)</b> Choose Album names. <i>This setting remains until you change it.</i>		Pre-select album names before you take pictures or videos. Then, all the pictures or videos you take are tagged with those album names. See <a href="#">page 59</a> .
<b>Image Stabilizer</b> The optical image stabilization helps to minimize hand movement to ensure sharp, clear results for still and video picture-taking.		<b>Continuous (default)</b> —image stabilization is continuously on. <b>Single</b>  —image stabilization activates when the Shutter button is pressed halfway. <b>Off</b> —setting is off.
<b>Set AE/AF Lock Button</b> Choose how the button works.		<b>AE lock</b> <b>AF lock</b> <b>AE/AF lock (default)</b> See <a href="#">page 33</a> .
<b>Set Program Button Capture</b> Program this button in Capture mode for a shortcut to your favorite camera settings.		See <a href="#">page 35</a> .

Setting	Icon	Options
<p><b>Set Program Button Review</b></p> <p>Program this button in Review for a shortcut to your favorite review settings.</p>		See <a href="#">page 35</a> .
<p><b>Orientation Sensor</b></p> <p>Orient pictures so they are displayed with the correct side up for Still capture only.</p>		<p><b>On</b></p> <p><b>Off (default)</b></p>
<p><b>Quickview</b></p> <p>Change Quickview default to on or off. (For more information, see <a href="#">page 6</a>.)</p>		<p><b>On (default)</b></p> <p><b>Off</b></p>
<p><b>Advanced Digital Zoom</b></p> <p>Choose how digital zoom is deployed.</p>		<p><b>Continuous</b>—no pause between optical and digital zoom for Still capture only.</p> <p><b>Pause</b>—after reaching 12X optical zoom, release the zoom button, then press it again to begin digital zoom.</p> <p><b>None (default)</b>—digital zoom is disabled.</p>
<p><b>Camera Sounds</b></p> <p>Choose an overall theme or individual sounds.</p>		<p><b>Theme (default)</b>—overall.</p> <p><b>Shutter</b></p> <p><b>Self-timer</b></p> <p><b>Error</b></p>
<p><b>Sound Volume</b></p> <p>Turn off all sounds, or choose a volume level.</p>		<p><b>Off</b></p> <p><b>Low</b></p> <p><b>Medium (default)</b></p> <p><b>High</b></p>
<p><b>Mode Description</b></p> <p>Display the mode descriptions. (SCN mode descriptions remain active.)</p>		<p><b>On (default)</b></p> <p><b>Off</b></p>

Setting	Icon	Options
<b>Accessory Lens</b> Ensure proper AF accessory lens use.		<b>On</b> <b>Off (default)</b>
<b>Date &amp; Time</b> Set the date and time.		See <a href="#">page 3</a> .
<b>Video Out</b> Choose the regional setting that lets you connect the camera to a television or other external device.		<b>NTSC (default)</b> —used in North America and Japan; most common format. <b>PAL</b> —used in Europe and China.
<b>External Flash</b> Choose an external flash setting.		<b>External flash only</b> <b>Camera and Ext. flash (default)</b>
<b>EVF/LCD Stand By</b> Select when you would like the EVF/LCD screen to time out.		<b>15 or 30 seconds</b> <b>1 minute (default)</b> <b>2 minutes</b>
<b>Auto Power Off</b> Select when you would like the camera to turn off.		<b>3 minutes (default)</b> <b>5, 10, 15, or 30 minutes</b>
<b>Language</b> Choose a language.		See <a href="#">page 4</a> .
<b>Reset Camera</b> Reset all picture-taking settings to the camera defaults.		<b>Reset</b> Auto, SCN, and PASM mode to its default setting. Settings for C modes are retained.

Setting	Icon	Options
<b>Format</b>  <b>CAUTION:</b> <b>Formatting deletes all pictures and videos, including those that are protected. Removing a card during formatting may damage the card.</b>		<b>Memory Card</b> —deletes everything on the card; formats the card. <b>Cancel</b> —exits without making a change. <b>Internal Memory</b> —deletes everything in internal memory including email addresses, album names, and favorites; formats the internal memory.
<b>Calibrate Imager</b> Reset the imager.		Resets the imager to factory calibration standards.
<b>About</b> View camera information.		Camera name and firmware version.

## PASM and C1, C2, C3 menu options

### Capture +

These settings are not available in Auto and SCN modes.

Setting	Icon	Options that appear in Liveview
<p><b>White Balance</b> Choose your lighting condition. <i>This setting is kept across PASM and independently in C1, C2, and C3 until you change it.</i></p>		<p><b>Auto (default)</b>—automatically corrects white balance. Ideal for general picture-taking.</p> <p><b>Daylight</b> —pictures in natural lighting.</p> <p><b>Cloudy</b> —under overcast, shady or twilight skies.</p> <p><b>Open shade</b> — pictures in the shade in natural lighting.</p> <p><b>Sunset</b> — preserves the deep hues seen in sunsets.</p> <p><b>Tungsten</b> —corrects the orange cast of household light bulbs. Ideal for indoor pictures under tungsten or halogen lighting without flash.</p> <p><b>Fluorescent</b> —corrects the green cast of fluorescent lighting. Ideal for indoor pictures under fluorescent lighting without flash.</p> <p><b>Click WB</b> — captures a representative white surface for a more precise setting.</p> <p><b>Custom</b> <del>WB1</del><del>WB2</del><del>WB3</del>—saves a white balance setting after registration function in the Custom White Balance setting (see <a href="#">page 50</a>). Unavailable in Video mode.</p>
<p><b>Custom White Balance</b></p>		<p><b>Compensation</b>—provides for custom color adjustment.</p> <p><b>Registration</b>—saves white balance settings.</p>

Setting	Icon	Options that appear in Liveview
<p><b>AF Control</b></p> <p>Choose an auto-focus setting. <i>This setting is kept across PASM and C until you change it.</i></p>		<p><b>Continuous AF (default)</b>—uses external AF sensor and TTL-AF (Through-The-Lens). Because the camera is always focusing, there is no need to press the Shutter button halfway down to focus.</p> <p><b>Single AF</b>  —uses external AF sensor and TTL-AF when the Shutter button is pressed halfway down.</p>
<p><b>AF Zone</b></p> <p>Select a large or concentrated area of focus. <i>This setting is kept across PASM and independently in C1, C2, and C3 until you change it.</i></p>		<p><b>Multi Zone (default)</b> —evaluates 3 zones to give an even picture focus. Ideal for general picture-taking.</p> <p><b>Center Zone</b> —evaluates the small area centered in the viewfinder. Ideal when precise focus of a specific area in the picture is needed.</p> <p><b>Selectable Zone</b> —use     to move the to any of 25 focus zones (5 vertical, 5 horizontal).</p>
<p><b>Sharpness</b></p> <p><i>This setting is kept across PASM and independently in C1, C2, and C3 until you change it.</i></p>		<p><b>High</b></p> <p><b>Normal</b></p> <p><b>Low</b></p>
<p><b>Contrast</b></p> <p><i>This setting is kept across PASM and independently in C1, C2, and C3 until you change it.</i></p>		<p><b>High</b></p> <p><b>Normal</b></p> <p><b>Low</b></p>

Setting	Icon	Options that appear in Liveview
<p><b>Slow Flash</b></p> <p>Choose what type of slow-flash setting is desired.</p> <p><i>This setting is kept across PASM and independently in C1, C2 and C3 until you change it.</i></p>		<p><b>Front Sync (default)</b>  —synchronizes at the beginning of the shutter. Ideal for night-scene background; fast shutter speeds can make background too dark. This feature allows both a slow shutter speed for the background to enhance the detail and a flash for the subject.</p> <p><b>Front Sync Redeye</b>  —Front-curtain sync and Red-eye are simultaneously set. Ideal for a person against a brightly lit night background. Lets you capture the background correctly and reduce the red-eye.</p> <p><b>Rear Sync</b>  —synchronizes at the end of the shutter. The flash fires just before the shutter closes to create a stream-of-light effect behind a moving object for a more natural appearance.</p> <p>Place the camera on a flat surface or tripod.</p>
<p><b>Copy to Custom</b></p> <p>Transfer current settings on the camera to a Custom mode.</p>		<p>Custom modes on the Mode dial:</p> <p>  </p>
<p><b>Custom Exposure Mode</b></p> <p>Choose a preferred capture mode. (See Custom modes, <a href="#">page 26</a>.)</p> <p><i>This setting remains until you change it.</i></p>		<p><b>Program (default)</b></p> <p><b>Aperture Priority</b></p> <p><b>Shutter Priority</b></p> <p><b>Manual</b></p> <p>Available only in Custom (C) mode.</p>

## Editing functions for Still and Video

This camera has editing capabilities for both still and video.

- 1 Press Review.  
(Press again to exit.)
- 2 ◀/▶ to locate a picture or video.
- 3 Press Menu.
- 4 ▲/▼ to highlight Edit, then press OK.
- 5 ▲/▼ to choose from the following options.
- 6 Follow the screen prompts.

### Still editing options

- Crop—crop unwanted picture information. For example, you can remove too much background from a group-shot picture. You can also change the aspect ratio (Portrait or Landscape) of the picture. See [page 54](#).
- Resize—reduce the number of pixels in a picture to increase storage memory.

### Video editing options

- Make Picture—make a still picture from a single frame of a video. There may be limitations to the size you can print because of the small picture size (much smaller than minimum picture size).
- Trim—cut the beginning and end of a video.
- Cut—cut out a middle section of a video.
- Split—split video into two sections. You choose the split point.
- Merge—put two compatible videos together (the reverse of split).

## Cropping pictures

- 1 See Editing functions, then follow steps 1–4.
- 2 ▲/▼ to highlight crop, then press OK.
- 3 ▲/▼ to select the desired cropping format, then press OK.
  - Press the Zoom lever to adjust the size.
  - ◀/▶ ▲/▼ to adjust the location.
- 4 ▲/▼ to select Continue, then press OK.
- 5 Press the Menu button to exit the menu.

The picture is copied, then cropped. The original picture is saved. A cropped picture cannot be cropped again on the camera. Cropped pictures take up space in the internal memory or on a card.

## RAW file development

This feature lets you develop, edit, and save a JPEG or TIFF printable copy of a RAW file. It does not affect the original file. RAW files provide 3 advantages:

- A digital negative for file authenticity
- Ability to correct exposure after capture
- Ability to adjust tonal qualities after capture

1 Press Review.

2  to locate a RAW image.

3 Press Menu.

4  to highlight RAW file develop, then press OK.

5  to highlight main option, then press OK.

6  to highlight sub option, then press OK.

NOTE: To select other options, repeat steps 5 & 6.

7  to highlight Develop RAW file, then press OK.

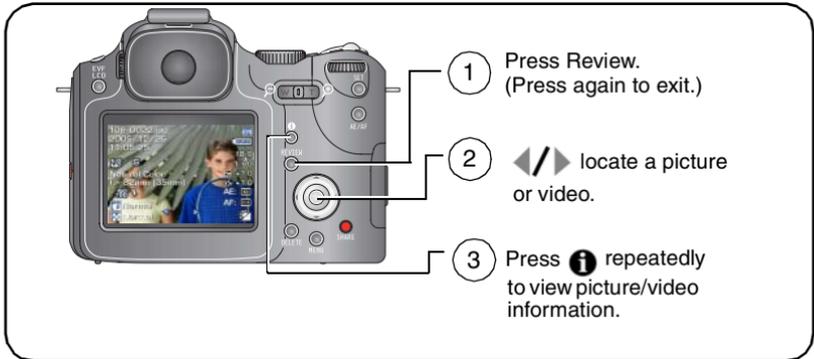
NOTE: The settings for these options may vary from the settings listed in the Capture + menu on [page 42](#).

### Options for RAW development:

	Picture Size		Sharpness
	File Type		Contrast
	Exposure Compensation		White Balance
	Color Mode		White Balance Compensation

NOTE: Pictures taken at the 4.5 MP (3:2) quality setting are displayed at a 3:2 aspect ratio with a black bar at the top and bottom of the screen. (See [Picture Size](#), [page 43](#).)

## Viewing picture/video information



## Using optional review menu

In Review, press the Menu button to access review functions.

• View	• Slide Show
• Album	• Copy
• Protect	• Raw File Develop (only RAW)
• Edit (only JPEG)	• Video Date Display (only Video)
• Redeye Reduction	• Multi-Up

## Copying pictures and videos

You can copy pictures and videos from a card to internal memory or from internal memory to a card.

### Before you copy, make sure that:

- A card is inserted in the camera.
- The camera's picture storage location is set to the location **from** which you are copying. See Image Storage, [page 46](#).

### Copy pictures or videos:

- 1 Press the Review button, then press the Menu button.
- 2 Move  $\blacktriangle/\blacktriangledown$  to highlight Copy , then press the OK button.
- 3 Move  $\blacktriangle/\blacktriangledown$  to highlight an option:

**PICTURE or VIDEO**—copies the current picture or video.

**EXIT**—returns to the Review menu.

**SELECTED**—copies previously selected pictures and videos from your selected storage location to the other location.

**ALL**—copies all pictures and videos from your selected storage location to the other location.

- 4 Press the OK button.

NOTE: Pictures and videos are copied, not moved. To remove pictures and videos from the original location after copying, delete them (see [page 16](#)).

Tags that you applied for print, email, and favorites are not copied. Protection settings are not copied. To apply protection to a picture or video, see [page 16](#).

## Running a slide show

Use the Slide Show to display your pictures and videos on the LCD screen. To run a slide show on a television or on any external device, see [page 59](#). To save battery power, use an optional Kodak 5-volt AC adapter. (Visit [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories).)

### Starting the slide show

- 1 Press the Review button, then press the Menu button.
- 2 Move  to highlight Slide Show , then press the OK button.
- 3 Move  to highlight your option, then press the OK button.

*Each picture and video is displayed once.*

To interrupt the Slide Show, press the OK button.

### Changing the slide show display interval

The default interval setting displays each picture for 5 seconds. You can set the display interval from 3 to 60 seconds.

- 1 On the Slide Show menu, move  to highlight Interval, then press the OK button.
- 2 Select a display interval.  
To scroll through the seconds quickly, press and hold .
- 3 Press the OK button.

*The interval setting remains until you change it.*

## Running a continuous slide show loop

When you turn on Loop, the slide show is continuously repeated.

- 1 On the Slide Show menu, move ▲/▼ to highlight Loop, then press the OK button.
- 2 Move ▲/▼ to highlight On, then press the OK button.

*When slide show is started with Loop On, the slide show repeats until you press the OK button or until battery power is exhausted. The Loop feature remains until you change it.*

## Displaying pictures and videos on a television

You can display pictures and videos on a television, computer monitor, or any device equipped with a video input. (Image quality on a television screen may not be as good as on a computer monitor or when printed.)

NOTE: Ensure that the Video Out setting (NTSC or PAL) is correct (see [page 48](#)). The slide show stops if you connect or disconnect the cable while the slide show is running.

- 1 Connect an audio/video cable (AV-8) from the camera USB, A/V Out port to the television video-in port (yellow) and audio-in port (white). See your television user's guide for details.
- 2 Review pictures and videos on the television.

## Pre-tagging for album names

Use the Set Album feature to pre-select album names before you take pictures or videos. Then, all the pictures or videos you take are tagged with those album names.

### First—on your computer

Use Kodak EasyShare software that came with your camera to create album names on your computer. Then copy up to 32 album names to the album name list the next time you connect the camera to the computer. See Kodak EasyShare software Help for details.

## Second—on your camera

- 1 In any mode, press the Menu button.
- 2 Move   to highlight Setup .
- 3 Move   to highlight Set Album , then press the OK button.
- 4 Move   to highlight an album name, then press the OK button. Repeat to mark pictures or videos for albums.  
*Selected albums are noted with a check mark.*
- 5 To remove a selection, highlight an album name and press the OK button. To remove all album selections, select Clear All.
- 6 Highlight Exit, then press the OK button.  
*Your selections are saved. Your album selection is displayed on the screen. A plus (+) after the album name means more than one album is selected.*
- 7 Press the Menu button to exit the menu.

## Third—transfer to your computer

When you transfer the tagged pictures or videos to your computer, Kodak EasyShare software opens and categorizes your pictures in the appropriate album. See the Kodak EasyShare software Help for details.

## Tagging pictures/videos for albums

Use the Album feature in Review mode to tag the pictures and videos in your camera with album names.

### First—on your computer

Use Kodak EasyShare software that came with your camera to create album names on your computer, then copy up to 32 album names to the camera's internal memory. See Kodak EasyShare software Help for details.

## Second—on your camera

- 1 Press the Review button, then locate the picture or video.
- 2 Press the Menu button.
- 3 Move / to highlight Album , then press the OK button.
- 4 Move / to highlight Picture/Video, Selected, or All, then press OK.
- 5 Move / to highlight an album folder, then press the OK button.

If you tagged a single Picture/Video, you can add other pictures to the same album by moving the Joystick  to scroll through the pictures. When the picture you want is displayed, press the OK button.

To add the pictures to more than one album, repeat step 4 for each album.

*The album name appears with the picture. A plus (+) after the album name means the picture was added to more than one album.*

To remove a selection, highlight an album name and press the OK button. To remove all album selections, select Clear All, Exit, and OK.

## Third—transfer to your computer

When you transfer the tagged pictures and videos to your computer, the Kodak EasyShare software opens and categorizes your pictures and videos in the appropriate album folder. See Kodak EasyShare software Help for details.

## Sharing your pictures

When your pictures/videos are transferred to your computer, you can share them by:



-  Print ([page 62](#))
-  Email ([page 63](#))
-  Favorites, [page 64](#)

## When can I tag my pictures and videos?

**Press the Share button to tag pictures/videos:**

- Any time. (The most recent picture/video taken is then displayed.)
- Just after you take a picture/video, during Quickview (see [page 6](#)).
- After pressing the Review button (see [page 11](#)).

## Tagging pictures for printing

NOTE: RAW and TIFF files are not printable.

- 1 Press the Share button. Move the Joystick  to locate a picture.
- 2 Move  to highlight Print , then press the OK button.\*
- 3 Move  to highlight Picture/Video, Selected, or All, then press the OK button.
- 4 Move  to select the number of copies (0-99). Zero (0) removes the tag for that picture.

*The icon appears in the status area. The default quantity is one.*

- 5 **Optional** (for single Picture/Video): You can apply a print quantity to other pictures. Move  to locate a picture. Keep the print quantity as is, or  to change it. Repeat this step until the desired print quantity is applied to the pictures.

**6** Press the OK button. Then press the Share button to exit the menu.

\* To remove print tagging for all pictures in the storage location, highlight Cancel Prints, then press the OK button. Cancel Prints is not available in Quickview.

## Printing tagged pictures

When you transfer the tagged pictures to your computer, the Kodak EasyShare software print screen opens. For details on printing, click the Help button in the Kodak EasyShare software.

For more information on printing from your computer, printer dock, PictBridge-compatible printer, or card, see [page 20](#).

NOTE: For the best 4 x 6 in. (10 x 15 cm) prints, set the camera to the 4.5 MP (3:2) print quality setting. See [page 43](#).

## Tagging pictures and videos for emailing

### First—on your computer

Use Kodak EasyShare software to create an email address book on your computer. Then, copy up to 32 email addresses to the camera's internal memory. For details, click the Help button in the Kodak EasyShare software.

### Second—tag pictures/videos on your camera

- 1 Press the Share button. Move the Joystick  to locate a picture/video.
- 2 Move  to highlight Email , then press the OK button.
- 3 Move  to highlight Picture/Video, Selected, or All, then press the OK button.
- 4 Move  to highlight an email address, then press the OK button. Press OK again to deselect.

If you tagged a single Picture/Video, you can tag other pictures/videos with the same address. Press  to scroll through them. When the picture you want is displayed, press OK.

To send the pictures/videos to more than one address, repeat step 2 for each address.

*Selected addresses are checked when you Exit.*

- 5 To remove a selection, highlight a checked address and press the OK button. To remove all email selections, highlight Clear All.
- 6 Move ▲/▼ to highlight Exit, then press the OK button.
- 7 Press the Share button to exit the menu.

### **Third—transfer and email**

When you transfer the tagged pictures/videos to your computer, the Email screen opens and lets you send them to the addresses you specified. For details, click the Help button in the Kodak EasyShare software.

### **Tagging pictures as favorites**

You can preserve your favorite pictures in the Favorites  section of your camera's internal memory, then share them with friends and family.

NOTE: When you transfer pictures from your camera to your computer, all pictures (including favorites) are stored on your computer at full size. Favorite pictures—smaller copies of your originals—are loaded back to your camera, upon camera setup, so you can share and enjoy more.

## Share your favorite pictures in 4 easy steps:

<b>1. Take pictures</b> 	
<b>2. Tag pictures as Favorites</b> 	<ol style="list-style-type: none"><li>1 Press Share. Move   to locate a picture.</li><li>2 Move   to highlight Favorite ; press the OK button.</li><li>3 Move   to highlight Picture, Selected, or All; press the OK button. <i>The icon appears in the status area. To remove the tag, repeat Step 2. Press Share again to exit.</i></li></ol>
<b>3. Transfer pictures to your computer</b>	<ol style="list-style-type: none"><li>1 To enjoy full functionality, install and use the EasyShare software that was packaged with this camera. (See <a href="#">page 18</a>.)</li><li>2 Connect the camera to the computer using the USB cable (see <a href="#">page 19</a>) or an EasyShare dock. <i>The first time you transfer pictures, the software helps you make choices about your favorite pictures. Then, your pictures are transferred to the computer. Favorite pictures (smaller versions of the originals) are loaded to the Favorites section of your camera's internal memory.</i></li></ol>
<b>4. View favorites on your camera</b> 	<ol style="list-style-type: none"><li>1 Turn the Mode switch to Favorites .</li><li>2 Move   to scroll through favorites. To exit Favorites mode, turn the Mode dial to any other position.</li></ol>

NOTE: The camera holds a limited number of favorites. Use Camera Favorites in the EasyShare software to customize the size of your camera Favorites section. Videos tagged as favorites remain in the Favorites folder in the EasyShare software. For more information, click the Help button in the Kodak EasyShare software.

## Optional settings

In Favorites mode, press the Menu button to access optional settings.

	View		Remove all favorites ( <a href="#">page 66</a> )
	Slide Show ( <a href="#">page 58</a> )		Multi-up ( <a href="#">page 12</a> )

NOTE: Pictures taken at the 4.5 MP (3:2) quality setting are displayed at a 3:2 aspect ratio with a black bar at the top and bottom of the screen. (See [Picture Size, page 43.](#))

## Removing all favorites from your camera

To increase internal memory for picture-taking, remove favorites from your camera.

- 1 Turn the Mode switch to Favorites .
- 2 Press the Menu button.
- 3 Highlight , then press the OK button.

*All pictures stored in the Favorites section of internal memory are removed. Favorites are restored the next time you transfer pictures to the computer.*

- 4 Press the Menu button to exit the menu.

## Preventing favorites from transferring to the camera

- 1 Open the Kodak EasyShare software. Click the My Collection tab.
- 2 Go to the Albums view.
- 3 Click the Camera Favorites Album for your camera.
- 4 Click Remove Album.

*The next time you transfer pictures from your camera to the computer, use the Camera Favorites Wizard/Assistant to either recreate your Camera Favorites Album or to turn off the Camera Favorites feature.*

## Printing and emailing favorites

- 1 Turn the Mode switch to Favorites . Move /  to locate a picture.
- 2 Press the Share button.
- 3 Highlight Print  or Email , then press the OK button.
- 4 Move /  to highlight Picture/Video, Selected, or All, then press the OK button.
- 5 Move /  to highlight an album folder, then press the OK button.

NOTE: Favorites that were taken on this camera (not imported from another source) are good for prints up to 4 x 6 in. (10 x 15 cm).

# 5 Troubleshooting

## Camera problems

For step-by-step product support, visit [www.kodak.com/go/p850support](http://www.kodak.com/go/p850support) and select Interactive Troubleshooting and Repairs.

If...	Try one or more of the following
Camera does not turn on	<ul style="list-style-type: none"><li>■ Remove battery and verify that it's the correct type, then reinsert it.</li></ul>
Camera does not turn off and the lens does not retract	<ul style="list-style-type: none"><li>■ Insert a charged battery.</li><li>■ Place the camera on a Kodak EasyShare camera dock (sold separately), then try again.</li></ul>
Camera buttons and controls do not function	<ul style="list-style-type: none"><li>■ Connect the camera to a Kodak 5-volt AC adapter (sold separately), then try again. See <a href="#">page 86</a> for more battery information.</li></ul>
Lens does not extend when camera turns on or does not retract	<ul style="list-style-type: none"><li>■ Confirm that the battery in camera is charged.</li><li>■ Turn camera on and off again.</li><li>■ Lens doesn't extend in Favorites.</li><li>■ If problem still exists, get help (see <a href="#">page 74</a>).</li></ul>
EVF/LCD screen is black or does not turn on	<ul style="list-style-type: none"><li>■ Remove the lens cap.</li><li>■ Push the EVF/LCD toggle button to change display.</li><li>■ Press any button to restore the EVF/LCD from power off.</li></ul>
In Review, a blue or black screen is displayed instead of a picture	<ul style="list-style-type: none"><li>■ Transfer the picture to the computer.</li><li>■ Transfer <i>all</i> pictures to the computer (see <a href="#">page 19</a>).</li><li>■ Take another picture. If problem still continues try internal memory and/or another memory card.</li></ul>
Pictures remaining number does not decrease after taking a picture	<ul style="list-style-type: none"><li>■ Continue taking pictures. The camera is operating normally. (The camera estimates the number of pictures remaining after each picture is taken, based on picture size and content.)</li></ul>

If...	Try one or more of the following
Picture orientation is not accurate	<ul style="list-style-type: none"> <li>■ Set the Orientation Sensor to ON (<a href="#">page 47</a>).</li> </ul>
Flash does not fire	<ul style="list-style-type: none"> <li>■ Check if external flash is designated in Setup (<a href="#">page 48</a>).</li> <li>■ Check the flash setting and change as needed (<a href="#">page 36</a>).</li> </ul>
Storage location is almost or entirely full	<ul style="list-style-type: none"> <li>■ Transfer pictures to the computer (<a href="#">page 19</a>).</li> <li>■ Delete pictures from the card or insert a new one (<a href="#">page 17</a>).</li> <li>■ Change image storage location to internal memory (<a href="#">page 46</a>).</li> </ul>
You cannot take a picture	<ul style="list-style-type: none"> <li>■ Turn the camera off, then on again.</li> <li>■ Depress shutter button all the way (<a href="#">page 5</a>).</li> <li>■ Insert a charged battery (<a href="#">page 2</a>).</li> <li>■ Memory full. Transfer pictures to the computer (<a href="#">page 19</a>), delete pictures from the camera (<a href="#">page 17</a>) or card, change image storage location, or insert a new card.</li> </ul>
Error message appears on EVF/LCD screen	<ul style="list-style-type: none"> <li>■ Follow action recommended on screen.</li> <li>■ Note error number, if given; then turn the camera off then back on.</li> <li>■ Remove the battery and wipe the contacts with a clean, dry cloth (<a href="#">page 87</a>), then reinstall it.</li> <li>■ Remove memory card from the camera.</li> <li>■ Wait for any blinking lights to stop; then turn the camera off then back on.</li> <li>■ If all else fails, get customer support help (see <a href="#">page 74</a>).</li> </ul>
Memory card not recognized or camera freezes with card.	<ul style="list-style-type: none"> <li>■ Card may be corrupted. Format card in camera (see <a href="#">page 4</a>). Data will be erased if formatted.</li> <li>■ Use another memory card.</li> </ul>

## Computer/connectivity problems

If...	Try one or more of the following
Computer does not communicate with the camera	<ul style="list-style-type: none"> <li>■ Insert a charged battery (<a href="#">page 2</a>).</li> <li>■ Turn on the camera.</li> <li>■ Make sure proper USB cable is securely connected on camera and computer port (<a href="#">page 19</a>). (If using an EasyShare dock, check all cable connections. Make sure the camera is seated on the dock.)</li> <li>■ Make sure the EasyShare software is installed (<a href="#">page 18</a>).</li> </ul>
Pictures do not transfer to computer	<ul style="list-style-type: none"> <li>■ Click the Help button in the EasyShare software.</li> </ul>
Slide Show does not run on an external video device	<ul style="list-style-type: none"> <li>■ Adjust the camera Video Out setting (NTSC or PAL, <a href="#">page 48</a>).</li> <li>■ Make sure the external device settings are correct (see the device's user's guide).</li> </ul>

## Picture quality problems

If...	Try one or more of the following
Picture is too dark or underexposed	<ul style="list-style-type: none"> <li>■ Reposition camera for more available light.</li> <li>■ Use Fill flash (<a href="#">page 36</a>) or change your position so light is not behind the subject.</li> <li>■ Move so that the distance between you and the subject is within the effective flash range (<a href="#">page 10</a>).</li> <li>■ To automatically set exposure and focus, press the Shutter button <b>halfway and hold</b>. When the AF/AE indicator turns green, press the Shutter button <b>completely down</b> to take the picture.</li> <li>■ Use P mode to adjust the Exposure and Flash Compensations (<a href="#">page 38</a>).</li> <li>■ Use P mode (<a href="#">page 37</a>) and Selectable Zone (see AF Zone on <a href="#">page 35</a>).</li> </ul>
Picture is too light or overexposed	<ul style="list-style-type: none"> <li>■ Reposition camera to reduce the amount of available light.</li> <li>■ Turn flash off (<a href="#">page 10</a>).</li> <li>■ Move so that the distance between you and the subject is within the effective flash range (<a href="#">page 10</a>).</li> <li>■ To automatically set exposure and focus, press the Shutter button <b>halfway and hold</b>. When the AF/AE indicator turns green, press the Shutter button <b>completely down</b> to take the picture.</li> <li>■ Use P mode to adjust the Exposure and Flash Compensations (<a href="#">page 38</a>).</li> </ul>

If...	Try one or more of the following
Picture is not clear	<ul style="list-style-type: none"> <li data-bbox="288 185 944 260">■ To automatically set exposure and focus, press the Shutter button <b>halfway and hold</b>. When the AF/AE indicator turns green, press the Shutter button <b>completely down</b> to take the picture.</li> <li data-bbox="288 268 944 297">■ Clean the lens (<a href="#">page 87</a>).</li> <li data-bbox="288 305 944 356">■ Make sure camera is not in Close-up mode if you are outside of the close-up focus specification.</li> <li data-bbox="288 364 944 415">■ Make sure camera is not in Telephoto mode if you are closer than the telephoto focus specification.</li> <li data-bbox="288 423 944 475">■ Place the camera on a flat, steady surface or use a tripod, especially in high-zoom settings or in low light.</li> </ul>

## Direct printing (PictBridge) problems

Status	Solution
Cannot locate desired picture.	■ Use the Direct print menu to change the image storage location.
The Direct print menu interface turns off.	■ Press any button to redisplay the menu.
Cannot print pictures.	■ Ensure that there is a connection between the camera and printer ( <a href="#">page 21</a> ). ■ Ensure the printer and camera have power ( <a href="#">page 21</a> ).
Camera or printer display an error message.	■ Follow the prompts to resolve the issue.

### Still having problems?

Visit [www.kodak.com/go/p850support](http://www.kodak.com/go/p850support), or see [Helpful links, page 74](#).

For Direct printing issues, contact the printer manufacturer.

## 6

## Getting help

## Helpful links

<b>Camera</b>	Get support for your product (FAQs, troubleshooting information, etc.)	<a href="http://www.kodak.com/go/p850support">www.kodak.com/go/p850support</a>
	Purchase camera accessories (camera docks, printer docks, lenses, cards, etc.)	<a href="http://www.kodak.com/go/p850accessories">www.kodak.com/go/p850accessories</a>
	Download the latest camera firmware and software	<a href="http://www.kodak.com/go/p850downloads">www.kodak.com/go/p850downloads</a>
	See online demonstrations of your camera	<a href="http://www.kodak.com/go/howto">www.kodak.com/go/howto</a>
<b>Software</b>	Get information on EasyShare software	<a href="http://www.kodak.com/go/easysw">www.kodak.com/go/easysw</a> (or click the Help button in the EasyShare software)
	Get help with the Windows operating system and working with digital pictures	<a href="http://www.kodak.com/go/pcbasics">www.kodak.com/go/pcbasics</a>
<b>Other</b>	Get support for other cameras, software, accessories, more	<a href="http://www.kodak.com/go/support">www.kodak.com/go/support</a>
	Get information on Kodak EasyShare printer docks	<a href="http://www.kodak.com/go/printerdocks">www.kodak.com/go/printerdocks</a>
	Get information on Kodak inkjet products	<a href="http://www.kodak.com/go/inkjet">www.kodak.com/go/inkjet</a>
	Optimize your printer for truer, more vibrant colors	<a href="http://www.kodak.com/go/onetouch">www.kodak.com/go/onetouch</a>
	Register your camera	<a href="http://www.kodak.com/go/register">www.kodak.com/go/register</a>

## Telephone customer support

If you have questions concerning the operation of the software or camera, you may speak with a customer support representative. Before you call, have the camera or dock connected to your computer. Be at your computer, and have the following information available:

- Computer model, Operating system
- Processor type and speed (MHz)
- Amount of memory (MB) & free hard disk space
- Camera serial number
- Version of Kodak EasyShare software
- Exact error message you received

Australia	1800 147 701	Greece	00800 441 40775	Singapore	800 6363 036
Austria	0179 567 357	Hong Kong	800 901 514	Spain	91 749 76 53
Belgium	02 713 14 45	India	91 22 617 5823	Sweden	08 587 704 21
Brazil	0800 150000	Italy	02 696 33452	Switzerland	01 838 53 51
Canada	1 800 465 6325	Japan	03 5540 9002	Taiwan	0800 096 868
China	800 820 6027	Korea	00798 631 0024	Thailand	001 800 631 0017
Denmark	3 848 71 30	Netherlands	020 346 9372	Turkey	00800 448 827073
Indonesia	001 803 631 0010	New Zealand	0800 440 786	UK	0870 243 0270
Ireland	01 407 3054	Norway	23 16 21 33	US (toll-free) / (toll)	1 800 235 6325 / 585 781 6231
Finland	0800 1 17056	Philippines / Metro Manila	1 800 1 888 9600 / 632 6369600	International Toll Line	+44 131 458 6714
France	01 55 1740 77	Poland	00800 441 1625	International Toll Fax	+44 131 458 6962
Germany	069 5007 0035	Portugal	021 415 4125		

Visit: [www.kodak.com/go/dfswwcontacts](http://www.kodak.com/go/dfswwcontacts)

## 7

## Appendix

## Camera specifications

For more specifications, visit [www.kodak.com/go/p850support](http://www.kodak.com/go/p850support).

<b>Kodak EasyShare P850 zoom digital camera</b>	
<b>CCD</b> (charge-coupled device)	
CCD	1/2.5 in. CCD, 5.1 MP, 4:3 aspect ratio
Output image size	2592 x 1944 5.0 MP 2592 x 1728 4.5 MP (3:2) 2048 x 1536 3.1 MP 1664 x 1248 2.1 MP 1280 x 960 1.2 MP
<b>Displays</b>	
Color display	2.5 in. (6.4 cm) color hybrid LCD, 480 x 240 (115 K) pixels
Color viewfinder— Electronic (EVF)	LCD and EVF not simultaneous; Optical, 237 K pixels
Preview (LCD/EVF)	Frame rate: 30 fps; Field-of-view: 95%.
<b>Lens</b>	
Taking lens (Optical zoom)	12X optical zoom, f/2.8–f/8.0 (wide), f/3.7–f/8.0 (tele) with image stabilization; 6.0–72.0 mm (35 mm equivalent: 36–432 mm)
Digital zoom	3.3X continuous, 0.2X increments starting at 3X optical zoom (LCD preview mode)
Combined zoom	40X

<b>Kodak EasyShare P850 zoom digital camera</b>	
Focus system	TTL-AF with program modes: Center weighted and Multi-pattern, 25-Selectable zones. Working range: 19.6 in. (50 cm)—infinity @ wide 35.4 in. (90 cm)—infinity @ tele 19.6 in.—35.4 in. (50 cm–90 cm) @ macro, wide 35.4 in.—6.6 ft (90 cm–2.0 m) @ macro, tele 3.9 in. (10 cm)—infinity @ wide in Auto mode 19.6 in. (50 cm)—infinity @ tele in Auto mode
Lens protection	Lens cap and tether
Lens thread	Yes (inside lens ring)
<b>Exposure</b>	
Exposure metering	TTL-AE, selectable Multi-point AE (25 positions) Multi-pattern; Center-weighted; Center-spot; Selectable Zone
Exposure compensation	Selectable $\pm 2.0$ EV range, in 1/3 EV steps
Exposure bracketing	3 or 5 images with selectable 1/3, 2/3, and 1.0 EV steps
Exposure control	AE or selectable Exposure Metering, Compensation, and Bracketing
AE/AF lock	AE or AF lock independent of pressing the Shutter button
Shutter speed	Mechanical with CCD electrical Auto: 1/2 to 1/1000 sec. Shutter priority: 16 sec.—1/1000 sec. in 1/3 increments
ISO speed	Auto: 50 to 800 selectable in PASM and C1, C2, & C3 (ISO 800 selectable only in 1.2 MP resolution)
<b>Flash</b>	
Electronic flash (auto flip-up deploy)	Guide no. 11 (@ ISO 100) Working range @ ISO 140: 2.9–15.4 ft (0.9–4.7 m) @ Wide 6.6–11.8 ft (2.0–3.6 m) @ Tele

<b>Kodak EasyShare P850 zoom digital camera</b>	
External flash	Extended flash range with Kodak external flash unit: Guide no. 37 (working range 43 ft (13 m) @ ISO 100, f/2.8, Wide) Guide no. 100 (working range 88 ft (27 m) @ ISO 100, f/3.7, Tele)
Flash compensation	-1 to +1 EV in 0.3 EV steps
Hot shoe	Yes; flash sync at any shutter speed
Front-/Rear-curtain sync	Available only in the slow-flash settings
<b>Capture</b>	
Capture modes	Auto, 16 Scene modes, PASM, & C1, C2, C3, Video
Burst mode	First, Last, & Time Lapse; minimum 2.3 fps
Video capture	VGA (640 x 480) @ 30 fps QVGA (320 x 240) @ 30 fps
Image file format	Still JPEG: EXIF 2.2 (fine, standard, & basic compression); file organization DCF Still RAW: file organization Kodak original Still TIFF: TIFF format Video: QuickTime format; (Motion-JPEG)
Image stabilizer	Yes
Internal memory/ Removable	32 MB internal memory/30 MB available for image storage (1 MB equals one million bytes); Optional MMC or SD Card  (The SD logo is a trademark of the SD Card Association.)
Image capacity	9 @ 5.0 MP, JPEG images at fine compression mode
Still image buffer	32 MB internal memory
<b>Review</b>	
Quickview	Yes
Video output	NTSC or PAL

<b>Kodak EasyShare P850 zoom digital camera</b>	
<b>Power</b>	
Kodak Li-Ion rechargeable digital camera battery KLIC-5001 (or equivalent); 5V AC adapter, optional	
<b>Communication with computer/TV</b>	
USB 2.0 (PIMA 15740 protocol), via USB, 8-pin cable (Model U-8), EasyShare camera dock or printer dock, AV cable, 8-pin (Model AV-8)	
<b>Other features</b>	
PictBridge support	Yes
Self-timer	Yes, 2 and 10 seconds
Sound feedback	Shutter, self-timer, error/warning, sound modes
White balance	Auto, Daylight, Tungsten, Fluorescent, Cloudy, Open Shade, Sunset, Click WB, WB1, WB2, WB3
Auto power off	Selectable: 3 (default), 5, 10, 15, or 30 minutes
Color modes	High Color, Natural Color, Low, B & W, Sepia
Sharpness	High, Normal, Low
Date stamp	None, YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY
Tripod mount	1/4 inch metal
Operating temperature	32–104° F (0–40° C) degrees
Size	4.3 x 3.3 x 2.8 in. (108.0 x 84.2 x 72.0 mm) @ power off
Weight	14.2 oz (403 g) without battery or card

## Storage capacities

File sizes can vary. You may be able to store more or fewer picture and videos. Favorites takes up additional space in internal memory.

### Picture storage capacity—JPEG basic compression

	Number of JPEG pictures				
	5.0 MP	4.5 MP (3:2)	3.1 MP	2.1 MP	1.2 MP
16 MB SD/MMC	11	13	18	26	42
32 MB internal memory	26	29	40	59	93
32 MB SD/MMC	24	27	37	55	87
64 MB SD/MMC	49	55	77	113	178
128 MB SD/MMC	100	112	156	228	360
256 MB SD/MMC	201	225	313	459	724
512 MB SD/MMC	403	451	629	920	1453

### Picture storage capacity—JPEG standard compression

	Number of JPEG pictures				
	5.0 MP	4.5 MP (3:2)	3.1 MP	2.1 MP	1.2 MP
16 MB SD/MMC	7	8	11	17	28
32 MB internal memory	16	18	26	38	62
32 MB SD/MMC	15	17	24	36	58
64 MB SD/MMC	31	35	50	74	119
128 MB SD/MMC	64	72	101	149	241
256 MB SD/MMC	129	144	203	300	486
512 MB SD/MMC	259	290	407	603	975

## Picture storage capacity—JPEG fine compression

	Number of JPEG pictures				
	5.0 MP	4.5 MP (3:2)	3.1 MP	2.1 MP	1.2 MP
16 MB SD/MMC	4	4	6	10	16
32 MB internal memory	9	10	15	22	37
32 MB SD/MMC	8	10	14	21	34
64 MB SD/MMC	18	20	28	43	71
128 MB SD/MMC	36	41	58	87	143
256 MB SD/MMC	74	83	117	175	288
512 MB SD/MMC	148	166	235	351	579

## Picture storage capacity—RAW & TIFF

Quality mode	Resolution	Compression ratio	Estimated file size (KB)	Number of pictures	
				Internal 32 MB	SD Card 32 MB
5.0 MP	2592 x 1944	RAW	7435	3	3
		TIFF	14816	2	2
4.5 MP (3:2)	2592 x 1728	TIFF	13176	2	2
3.1 MP	2048 x 1536	TIFF	9270	3	3
2.1 MP	1664 x 1248	TIFF	6138	5	5
1.2 MP	1280 x 960	TIFF	3654	8	8

## Video storage capacity

	Minutes/seconds of video	
	VGA (640 x 480)	QVGA (320 x 240)
16 MB SD or MMC	15 sec.	25 sec.
32 MB internal memory	34 sec.	55 sec.
32 MB SD or MMC	12 sec.	52 sec.
64 MB SD or MMC	1 min. 7 sec.	1 min. 46 sec.
128 MB SD or MMC	2 min. 15 sec.	3 min. 35 sec.
256 MB SD or MMC	4 min. 31 sec.	7 min. 12 sec.
512 MB SD or MMC	9 min. 5 sec.	14 min. 28 sec.

## Power-saving features

If no action for	The camera	To turn it back on
15, 30 seconds; 1, 2 minutes	EVF/LCD screen turns off.	Press any button.
3, 5, 10, 15 or 30 minutes	Enters auto power off.	Turn camera Off/On.

NOTE: See EVF/LCD Stand By and Auto Power-Off in Setup on [page 48](#).

## Accessories

Item	Description	Where to buy
Kodak 0.7X wide-angle lens	Expand your creativity and photographic options with the versatile 0.7X wide-angle lens.	<a href="http://www.kodak.com/go/p850/accessories">www.kodak.com/go/p850/accessories</a>
Kodak 1.4 tele converter lens	Extends maximum focal length up to 605 mm.	
Kodak lens adapter	Lets you add 55 mm screw-on lenses or filters	
Kodak lens shade	Reduces flare from direct light.	
Lens filter (black & white)	Neutral density filter 102. Reduces light by 2 f-stops (log density 0.6), 55 mm threads	
	Circular Polarizing filter (55 mm threads)	
	UV filter. Eliminates haze and protects lens.	
Kodak 5-volt AC adapter	Easy way to extend battery life. Plug your camera in while downloading or viewing your pictures.	
Kodak performance series digital camera case	Stylish, but rugged, for Kodak EasyShare series digital cameras.	
Kodak Li-Ion rechargeable digital camera battery — KLIC-5001	Delivers outstanding capacity and charges up to 300 times in 3 hours or less.	
Kodak Li-Ion rapid battery charger kit	Includes six worldwide plugs ranging from 110–240 volts. Batteries sold separately.	
Kodak P20 zoom flash	Provides specialized lighting. It mounts to the camera hot shoe.	
Check our Web site for the entire listing (batteries & chargers, memory cards, tripods, camera bags, travel kits, cartridge & photo paper kit, camera docks, printer docks, lenses, etc.)		

## Important safety instructions

### Using this product

- Read and follow these instructions before using Kodak products. Always follow basic safety procedures.
- Use only a USB compliant computer equipped with a current-limiting motherboard. Contact your computer manufacturer if you have questions.
- The use of an accessory attachment that is not recommended by Kodak, such as an AC adapter, may cause fire, electric shock, or injury.
- If using this product in an airplane, observe all instructions of the airline.



#### **CAUTION:**

*Do not disassemble this product; there are no user-serviceable parts inside. Refer servicing to qualified service personnel. Do not expose this product to liquid, moisture, or extreme temperatures. Kodak AC adapters and battery chargers are intended for indoor use only. The use of controls, adjustments, or procedures other than those specified herein may result in exposure to shock and/or electrical or mechanical hazards. If the LCD breaks, do not touch the glass or liquid. Contact Kodak Support.*

## Battery safety and handling



### **WARNING:**

*When removing batteries, allow them to cool first; batteries may be hot.*

- Use only batteries that are approved for this product to avoid risk of explosion.
- Keep batteries out of the reach of children.
- Do not allow batteries to touch metal objects, including coins. Otherwise, a battery may short circuit, discharge energy, become hot, or leak.
- Do not disassemble, install backward, or expose batteries to liquid, moisture, fire, or extreme temperature.
- Remove battery when the product is stored for an extended period of time. In the unlikely event that battery fluid leaks inside the product, contact your local Kodak Customer Service representative.
- In the unlikely event that battery fluid leaks onto your skin, wash immediately with water and contact your local health provider. For additional health-related information, contact your local Kodak Customer Service representative.
- Dispose of batteries according to local and national regulations.
- Do not charge non-rechargeable batteries.

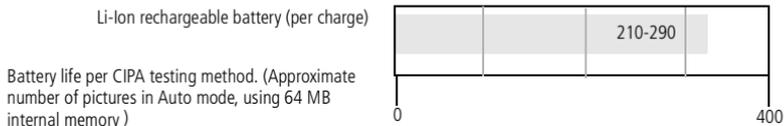
For more information on batteries, see

[www.kodak.com/global/en/service/batteries/batteryUsage.jhtml](http://www.kodak.com/global/en/service/batteries/batteryUsage.jhtml)

## Battery information

### Kodak battery replacement types/battery life

Actual battery life may vary based on usage.



We recommend using only a Kodak Li-Ion rechargeable digital camera battery KLIC-5001. Not all manufacturers' 3.7V Li-Ion rechargeable batteries are compatible with the camera. Damage caused by unauthorized accessories is not covered under warranty.

Optional battery: You can use a Kodak Li-Ion rechargeable digital camera battery, KLIC-5000, but it is a lower power battery. Expect approximately 30% fewer pictures per full charge than with the KLIC-5001 battery included with your camera.

### Extending battery life

- Limit the following activities that quickly deplete battery power:
  - Reviewing your pictures on the camera screen (see [page 11](#))
  - Using the camera EVF screen as a viewfinder (see [page 48](#))
  - Excessive use of the flash (see [page 36](#)), Continuous AF (see [page 45](#)), and Image Stabilization (see [page 46](#)).
- Dirt on the battery contacts can affect battery life. Wipe the contacts with a clean, dry cloth before loading batteries in the camera.
- Battery performance is reduced at temperatures below 41°F (5°C). When using your camera in cold weather, carry spare batteries and keep them warm. Do not discard cold batteries that do not work; when they return to room temperature, they may be usable.

Visit [www.kodak.com/go/p850accessories](http://www.kodak.com/go/p850accessories) for:

**Kodak EasyShare camera dock**—powers your camera, transfers pictures to your computer, and charges the included Kodak Li-Ion rechargeable battery.

**Kodak EasyShare printer dock**—powers your camera, makes 4 x 6 in. (10 x 15 cm) prints with or without a computer, transfers pictures, and charges the included Kodak Li-Ion rechargeable battery.

**Kodak 5-volt AC adapter**—powers your camera.

**IMPORTANT:** *Do not use the AC adapter included with the Kodak EasyShare printer dock to power your camera.*

## Upgrading your software and firmware

Download the latest versions of the software included on the Kodak EasyShare software CD and the camera firmware (the software that runs on the camera). See [www.kodak.com/go/p850downloads](http://www.kodak.com/go/p850downloads).

## Additional care and maintenance

- If the camera has been subjected to inclement weather or you suspect water has gotten inside the camera, turn off the camera and remove the batteries and card. Allow all components to air-dry for at least 24 hours before using the camera again.
- Blow gently on the lens or camera screen to remove dust and dirt. Wipe gently with a soft, lint-free cloth or an untreated lens-cleaning tissue. Do not use cleaning solutions unless designed specifically for camera lenses. Do not allow chemicals, such as suntan lotion, to contact painted surfaces.
- Service agreements may be available in your country. Contact a dealer of Kodak products for more information.
- For digital camera disposal or recycling information, contact your local authorities. In the US, visit the Electronics Industry Alliance Web site at [www.eiae.org](http://www.eiae.org) or the Kodak Web site at [www.kodak.com/go/p850support](http://www.kodak.com/go/p850support).

## Warranty

### Limited warranty

Kodak warrants Kodak digital cameras and accessories (excluding batteries) to be free from malfunctions and defects in both materials and workmanship for one year from the date of purchase.

Retain the original dated sales receipt. Proof of the date of purchase will be required with any request for warranty repair.

### Limited warranty coverage

**This limited warranty will be honored only within the geographical location that Kodak digital cameras and accessories were purchased.**

Kodak will REPAIR or REPLACE Kodak digital cameras and accessories if they fail to function properly during the warranty period, subject to any conditions and/or limitations stated herein. Such repair service will include all labor as well as any necessary adjustments and/or replacement parts. Such repair or replacement is the sole remedy under this warranty.

If replacement parts are used in making repairs, these parts may be remanufactured, or may contain remanufactured materials. If it is necessary to replace the entire product, it may be replaced with a remanufactured product.

### Limitations

Request for Warranty service will not be accepted without proof of date of purchase, such as a copy of the original dated Kodak digital camera or accessory sales receipt. (Always keep the original for your records.)

This warranty does not apply to the battery(s) used in digital cameras or accessories. This warranty does not cover circumstances beyond Kodak's control, nor problems caused by failure to follow the operating instructions in the Kodak digital cameras and accessories User's Guides.

THIS WARRANTY DOES NOT APPLY WHEN FAILURE IS DUE TO SHIPPING DAMAGE, ACCIDENT, ALTERATION, MODIFICATION, UNAUTHORIZED SERVICE, MISUSE, ABUSE, USE WITH INCOMPATIBLE ACCESSORIES OR ATTACHMENTS, FAILURE TO FOLLOW KODAK'S OPERATION, MAINTENANCE OR REPACKING INSTRUCTIONS, FAILURE TO USE ITEMS SUPPLIED BY KODAK (SUCH AS ADAPTERS AND CABLES), OR CLAIMS MADE AFTER THE DURATION OF THIS WARRANTY.

Kodak makes no other express or implied warranty for this product. In the event that the exclusion of any implied warranty is ineffective under the law, the duration of the implied warranty will be one year from the purchase date.

The option of replacement is Kodak's only obligation. Kodak will not be responsible for any special, consequential or incidental damages resulting from the sale, purchase, or use of this product, regardless of the cause. Liability for any special, consequential or incidental damages (including but not limited to loss of revenue or profit, downtime costs, loss of the use of the equipment, cost of substitute equipment, facilities or services, or claims of your customers for such damages resulting from the purchase, use or failure of the product), regardless of cause or for breach of any written or implied warranty is expressly disclaimed and excluded here from.

## Your rights

Some states or jurisdictions do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states or jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific rights, and you may have other rights which vary from state to state or by jurisdiction.

## Outside the United States and Canada

In countries other than the United States and Canada, the terms and conditions of this warranty may be different. Unless specific Kodak warranty is communicated to the purchaser in writing by a Kodak company, no warranty or liability exists beyond any minimum requirements imposed by law, even though defect, damage, or loss may be by negligence or other act.

## Regulatory compliance

### FCC compliance and advisory



Kodak EasyShare P850 zoom digital camera

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 or 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: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for additional suggestions.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation.

## Canadian DOC statement

**DOC Class B Compliance**—This Class B digital apparatus complies with Canadian ICES-003.

**Observation des normes-Class B**—Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Waste Electrical and Electronic Equipment labeling



In the European Union, do not discard the product as unsorted municipal waste. Contact your local authorities or go to [www.kodak.com](http://www.kodak.com) for recycling program information.

## VCCI Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。  
取扱説明書に従って正しい取り扱いをして下さい。

English translation:

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

## MPEG-4

Use of this product in any manner that complies with the MPEG-4 visual standard is prohibited, except for use by a consumer engaging in personal and non-commercial activities.

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