

Rollei
since 1920

USER GUIDE

FOR GERMAN | ENGLISH | SPANISH | ITALIAN | FRENCH | PORTUGUESE | GREEK |
DUTCH | POLISH | RUSSIAN | TRAD. CHINESE | SIMPLIFIED CHINESE | KOREAN | JAPANESE |
TURKISH | HUNGARIAN | DANISH | SWEDISH | NORWEGIAN | FINNISH



Rollei
Powerflex 470



FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

READ THIS FIRST

Trademark Information

- Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.
- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Inc.
- SD™ is a trademark.
- SDHC™ is a trademark.
- Other names and products may be trademarks or registered trademarks of their respective owners.

Product Information

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
- The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
- The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.

SAFETY INSTRUCTIONS

Read and understand all **Warnings** and **Cautions** before using this product.

Warnings

If foreign objects or water have entered the camera, turn the power off and remove the battery.



Continued use might cause fire or electric shock. Consult the store of purchase.

If the camera has fallen or its case has been damaged, turn the power off and remove the battery.



Continued use might cause fire or electric shock. Consult the store of purchase.

Do not disassemble, change or repair the camera.



This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.

Use the supplied AC adapter only with the indicated power supply voltage.



Use with any other power supply voltage might cause fire or electric shock.

Do not use the camera in areas near water.



This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore.

Do not place the camera on inclined or unstable surfaces.



This might cause the camera to fall or tilt over, causing damage.

Keep the battery out of the reach of children.



Swallowing the battery might cause poisoning. If the battery is accidentally swallowed, immediately consult a physician.

Do not use the camera while you are walking, driving or riding a motorcycle.



This might cause you to fall over or result in traffic accident.

Please use battery with complete external seals.



Do not use battery from which the seals have been damaged or removed. This may cause leakage, explosion, or injury.

Cautions

Insert the battery paying careful attention to the polarity (+ or -) of the terminals.

Inserting the battery with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking.



Do not fire the flash close to anyone's eyes.

This might cause damage to the person's eyesight.



Do not subject the LCD monitor to impact.

This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment.



A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera.

This might cause damage to the camera.



Do not use the camera in humid, steamy, smoky, or dusty places.

This might cause fire or electric shock.



Do not remove the battery immediately after long period of continuous use.

The battery becomes hot during use. Touching a hot battery might cause burns.



Do not wrap the camera or place it in cloth or blankets.

This might cause heat to build up and deform the case, resulting in fire. Use the camera in a well-ventilated place.



Do not leave the camera in places where the temperature may rise significantly, such as inside a car.

This might adversely affect the case or the parts inside, resulting in fire.



Before you move the camera, disconnect cords and cables.

Failure to do this might damage cords and cables, resulting in fire and electric shock.



Notes on Battery Usage

When you use the battery, carefully read and strictly observe the **Safety Instructions** and the notes described below:

- Use only the specified battery (3.7V).
- Avoid extremely cold environments as low temperatures can shorten the battery life and reduce camera performance.
- When you are using a new rechargeable battery or a rechargeable battery that has not been used for an extended period of time (the battery that passed the expiry date is an exception), it may affect the number of images that can be captured. Therefore, to maximize its performance and lifetime, we recommend that you fully charge the battery and discharge it for at least one complete cycle before use.
- The battery may feel warm after a long period of continuous use of the camera or the flash. This is normal and not a malfunction.
- The camera may feel warm after a long period of continuous use. This is normal and not a malfunction.
- If the battery is not to be used for a long period of time, remove it from the camera to prevent leakage or corrosion and store it after no battery power is left. Stored for a long time in a fully charged condition, its performance may be impaired.
- Always keep the battery terminals clean.
- There is a risk of explosion if the battery is replaced by an incorrect type.
- Dispose of used battery according to the recycle instructions.
- Charge the rechargeable battery fully before using for the first time.
- To prevent short-circuiting or fire, keep the battery away from other metal objects when carrying or storing.



This symbol mark [crossed-out wheeled bin] indicates separate collection of waste batteries in the EU countries. The batteries provided with this product shall not be treated as household waste. Please use the return and collection systems available in your country for the disposal of the waste batteries.

If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the batteries contains a heavy metal at a certain concentration. It is indicated as follows:
Hg: mercury, Cd: cadmium, Pb: lead.

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INTRODUCTION

Overview

Congratulations on your purchase of the new digital camera.

Capturing high-quality digital images is fast and easy with this state-of-the-art smart camera. Equipped with a 14.0-megapixel CCD, this camera is capable of capturing images with a resolution of up to 4288 x 3216 pixels.

Package Contents

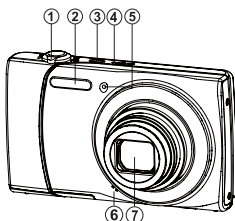
Carefully unpack your camera and ensure that you have the following items:

Common Product Components:

- Digital Camera
- Instruction manual
- Quick Start Guide
- Software CD-ROM
- Camera strap
- Rechargeable lithium-ion battery
- AV cable
- USB cable
- USB-AC adapter

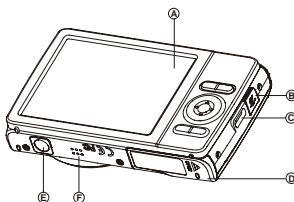
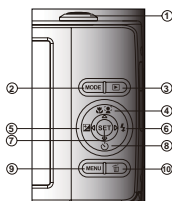
GETTING TO KNOW YOUR CAMERA

Front View



1. Zoom lever
2. Flash
3. **ON/OFF** Power button
4. Status LED
5. Self-timer LED
6. Microphone
7. Lens

Rear View



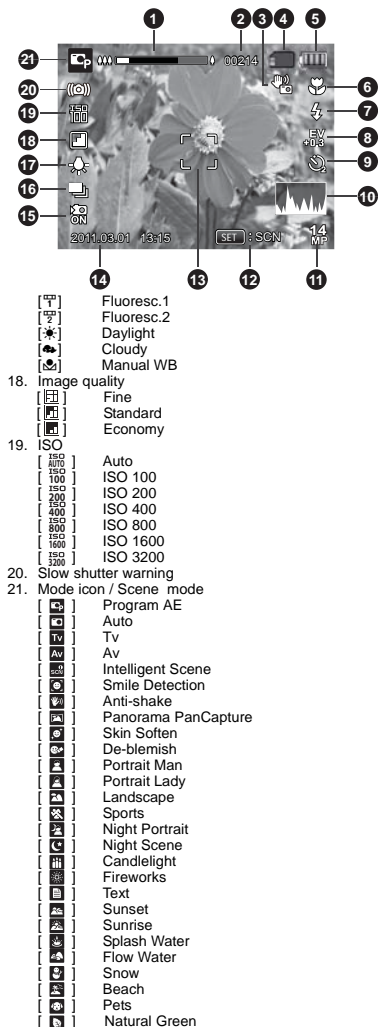
- A. LCD monitor
- B. USB and AV OUT terminal
- C. Strap holder
- D. Battery / Memory card cover
- E. Tripod socket
- F. Speaker

Item	Function		
	Capture Mode	Video Mode	Playback Mode
1.	Shutter button	Record button	Still image: to capture mode Video clip: to capture mode
2.	Switches to: Video mode > Capture mode	Switches to: Capture mode > Video mode	Still image: to capture mode Video clip: to capture mode
3.	Playback mode	Playback mode	Still image: to capture mode Video clip: to capture mode
4.	Focus	Focus	Next 10th image
5.	Compensation	--	Previous Image
6.	Flash	--	Next Image
7.	If any scene mode is set: switches to scene mode selection screen	--	Still image: to display image Records voice memo (if "Voice Memo" is "Record"). Video clip: to play video clip
8.	Self-timer	Self-timer	Previous 10th image
9.	Capture menu	Video menu	Playback menu
10.	--	--	Delete

LCD Monitor Display

Capture mode

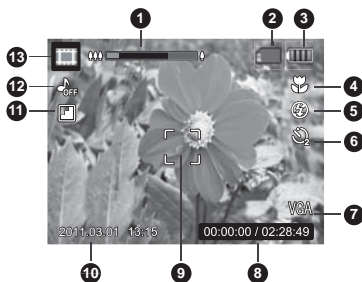
1. Zoom status
2. Available number of shots
3. Image Stab.
4. Storage media
[SD] SD/SDHC memory card
5. Battery condition
[Full] Full battery power
[Med] Medium battery power
[Low] Low battery power
[Empty] No battery power
6. Focus setting
[Auto] Auto
[AF-Track] AF Tracking
[Face-Detect] Face Detect
[Macro] Macro
[Super-Macro] Super Macro
[Infinity] Infinity
7. Flash mode
[Auto] Auto
[Flash-On] Flash On
[Flash-Off] Flash Off
[Red-eye] Red-eye
[Slow-Sync] Slow Sync
[Pre-flash] Pre-flash
[Manual] Manual flash
8. Exposure compensation
(It can not be used in below modes: Tv, Av, Intelligent Scene, Smile Detection, Skin Soften, De-blemish, Portrait Man & Portrait Lady.)
[Backlight] Backlight correction
(It can only be used in Smile Detection, Skin Soften, De-blemish, Portrait Man and Portrait Lady.)
9. Self-timer & Self-portrait icon
[Off] Off
[Self-portrait] Self-portrait
[2 sec.] 2 sec.
[10 sec.] 10 sec.
[10+2 sec.] 10+2 sec.
10. Histogram
[Histogram] Histogram
11. Image size resolution
[4288 x 3216] 4288 x 3216
[3264 x 2448] 3264 x 2448
[2304 x 1728] 2304 x 1728
[1600 x 1200] 1600 x 1200
[VGA] 640 x 480
12. Set key: SCN hint icon
13. Main focus area
14. Date and time
15. Quick shot
16. Capture mode icon
[Single] Single
[Continuous] Continuous
[AEB] AEB (Auto Exposure Bracketing)
[Album Shot] Album Shot
[Burst] Burst
[Cont. flash] Cont. flash
[Pre-shot] Pre-shot
[Coupl. shot] Coupl. shot
[Burst 30fps] Burst 30fps
[Interval capture] Interval capture
17. White balance
[Auto] Auto
[Incand.] Incand.



18. Image quality
[Fluoresc.1] Fluoresc.1
[Fluoresc.2] Fluoresc.2
[Daylight] Daylight
[Cloudy] Cloudy
[Manual WB] Manual WB
19. ISO
[Auto] Auto
[ISO 100] ISO 100
[ISO 200] ISO 200
[ISO 400] ISO 400
[ISO 800] ISO 800
[ISO 1600] ISO 1600
[ISO 3200] ISO 3200
20. Slow shutter warning
21. Mode icon / Scene mode
[Program AE] Program AE
[Auto] Auto
[Tv] Tv
[Av] Av
[Intelligent Scene] Intelligent Scene
[Smile Detection] Smile Detection
[Anti-shake] Anti-shake
[Panorama] Panorama PanCapture
[Skin Soften] Skin Soften
[De-blemish] De-blemish
[Portrait Man] Portrait Man
[Portrait Lady] Portrait Lady
[Landscape] Landscape
[Sports] Sports
[Night Portrait] Night Portrait
[Night Scene] Night Scene
[Candlelight] Candlelight
[Fireworks] Fireworks
[Text] Text
[Sunset] Sunset
[Sunrise] Sunrise
[Splash Water] Splash Water
[Flow Water] Flow Water
[Snow] Snow
[Beach] Beach
[Pets] Pets
[Natural Green] Natural Green

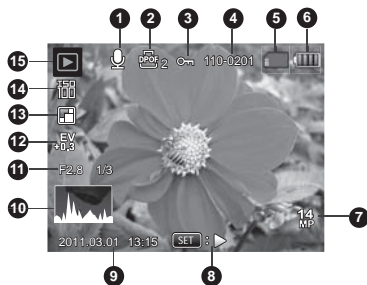
Video mode

1. Zoom status
2. Storage media
3. Battery condition
4. Focus setting
5. Flash off
6. Self-timer icon
7. Video resolution
8. Elapsed time / Available recording time
9. Main focus area
10. Date and time
11. Video quality
12. Audio off
13. Mode icon



Playback mode - Still image playback

1. Voice memo
2. DPOF icon
3. Protect icon
4. Folder / File number
5. Storage media
6. Battery condition
7. Image size resolution
8. Set key: Play hint icon
9. Date and time
10. Histogram
11. Aperture value / Shutter speed
12. Exposure value
13. Image quality
14. ISO
15. Mode icon



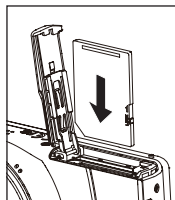
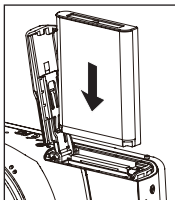
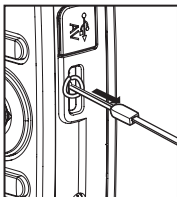
Playback mode - Video playback

1. Protect icon
2. Folder / File number
3. Storage media
4. Battery condition
5. Volume mode
6. Total recorded time
7. Video status bar
8. Video condition icon
9. Elapsed time
10. Set key: Play / Pause hint icon
11. Down key: Stop hint icon
12. Mode icon



GETTING STARTED

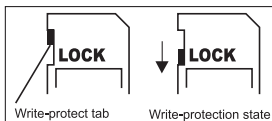
Preparation



1. Attach the camera strap.
2. Open the battery/memory card cover.
3. Insert the supplied battery with correct orientation as shown (label side front).
4. Insert an SD/SDHC memory card (Optional).
 - Be sure to format the memory card with this camera before its initial usage.
5. Close the battery/memory card cover and make sure it is locked securely.



- To prevent valuable data from being accidentally erased from an SD/SDHC memory card, you can slide the write protect tab (on the side of the SD/SDHC memory card) to "LOCK".
- To save, edit, or erase data on an SD/SDHC memory card, you must unlock the card.
- To prevent damaging of an SD/SDHC memory card, be sure to turn off the power when inserting or removing the SD/SDHC memory card. If inserting or removing the SD/SDHC memory card with the power on, the camera will automatically turn off.

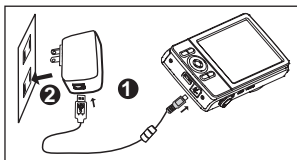


Charging the Battery

The battery is not fully charged at the time of purchase. Fully charge the battery and discharge it for at least one complete cycle before use to maximize its performance and lifetime.

1. Connect camera to USB-AC adapter with USB cable.
2. Insert the plug into a wall outlet.

Status LED	Description
Green (blinks slowly)	Charging normally
Off	Charging finished
Green (blinks quickly)	Error



- The included USB-AC adapter differs depending on the region where you purchased the camera.
- User can also charge the battery by connecting camera to computer with USB cable.
- Charging time varies according to the ambient temperature and the status of battery.

Initial Settings

The language & date/time needs to be set if and when:

- The camera is turned on for the first time.
 - The camera is turned on after leaving the camera without the battery for an extended period of time.
1. Press the **ON/OFF** button to turn the power on.
 2. Press any button to enter language setup. Select the displayed language with the ◀ / ▶ / ▲ / ▼ buttons and press the **SET** button.
 3. Select the date format with the ▲ / ▼ buttons, and press the **SET** button.
 4. Select the item's field with the ◀ / ▶ buttons and adjust the value for the date and time with the ▲ / ▼ buttons.
 5. After confirming all settings are correct, press the **SET** button.
 - Half press the shutter button or press the **MENU** button will enter capture mode without saving the settings.

Setting the Date and Time












When the date and time information is not displayed on the LCD monitor, follow these steps to set the correct date and time.

1. Press the **MODE** button, and set the camera mode to [] or []; or press the [] button.
2. Press the **MENU** button.
3. Select the [Setup] at the end of the Menu with the ▲ / ▼ buttons, and press the **SET** button.
4. Select [Date/Time] with the ▲ / ▼ buttons, and press the **SET** button.
5. Select the date format with the ▲ / ▼ buttons, and press the **SET** button.
 - Select the item's field with the ◀ / ▶ buttons and adjust the value for the date and time with the ▲ / ▼ buttons.
 - The time is displayed in 24-hour format.
 - After confirming all settings are correct, press the **SET** button.
6. To exit from the [Setup] menu, press the **MENU** button.



Choosing the Language










Specify in which language menus and messages are to be displayed on the LCD monitor.

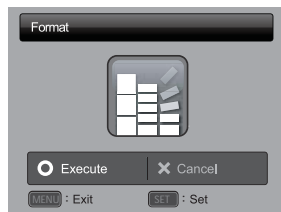
1. Press the **MODE** button, and set the camera mode to [] or []; or press the  button.
2. Press the **MENU** button.
3. Select the [Setup] at the end of the Menu with the  /  buttons, and press the **SET** button.
4. Select [Language] with the  /  buttons and press the **SET** button.
5. Select the displayed language with the  /  /  /  buttons and press the **SET** button.
 - The setting will be stored.
6. To exit from the [Setup] menu, press the **MENU** button.



Formatting the Memory Card

This utility formats the memory card and erases all stored images and data.




1. Press the **MODE** button, and set the camera mode to [] or []; or press the  button.
2. Press the **MENU** button.
3. Select the [Setup] at the end of the Menu with the  /  buttons, and press the **SET** button.
4. Select [Format] with the  /  buttons, then press the **SET** button.
5. Select [Execute] with the  /  buttons, and press the **SET** button.
 - To cancel formatting, select [Cancel] and press the **SET** button.
6. To exit from the [Setup] menu, press the **MENU** button.

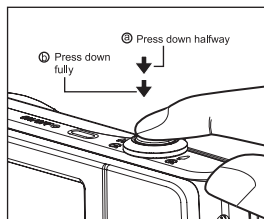


CAPTURE MODE

Capturing Images


Your camera is equipped with a 3.0" full color TFT LCD monitor to help you compose images, playback recorded images/video clips or adjust menu settings.

1. Press the **ON/OFF** button to turn the power on.
2. Press the **MODE** button, and set the camera mode to [].
3. Compose your image in the LCD monitor.
 - Turn the zoom lever to  side to zoom in on the subject, and enlarges the subject on the LCD monitor.
 - Turn the zoom lever to  side to zoom out on the subject, and provides a wider angle image.
4. Press the shutter button.
 - Pressing the shutter button down halfway automatically focuses and adjusts the exposure, and pressing the shutter button down fully captures the image.
 - The focus area frame turns green when the camera is in focus and the exposure is calculated.
 - When the focus is not suitable, the frame of the focus area turns red.













Setting the Scene Mode


















By simply selecting one of the available scene modes, you can capture the image with the most appropriate settings.

1. Press the **MODE** button, and set the camera mode to [], and press the **SET** button.
2. Select the desired scene mode with the ◀ / ▶ / ▲ / ▼ buttons, and press the **SET** button.
3. Compose the image and press the shutter button.




The table below will help you choose the appropriate scene mode:

Scene mode	Description
 Program AE	Select this mode when you want to set parameters manually other than the shutter speed and the aperture value.
 Auto	Select this mode when you want to capture images without having to set special functions or manual adjustments.
 Tv	Select this mode when you want to capture fast moving subjects in fast shutter speed, or capture still subjects in slow shutter speed.
 Av	Select this mode when you want to capture images with the priority given to aperture.
 Intelligent Scene	Select this mode when you want the camera to select an ideal shooting mode according to environment automatically.
 Smile Detection	Select this mode to automatically capture an image when a smiling face is detected.
 Anti-shake	Select this mode when you want to minimize the influences of hand shaking when capturing an image.
 Panorama PanCapture	Select this mode when you want the camera to combine pictures in the camera automatically.
 Skin Soften	Select this mode when you want the camera to reduce artifacts on faces.
 De-blemish	Select this mode when you want the camera to reduce obvious blemishes and big spots on faces.

Scene mode	Description
 Portrait Man	Select this mode when you want to capture an image that makes a man stand out against a blurred background.
 Portrait Lady	Select this mode when you want to capture an image that makes a lady stand out against a blurred background.
 Landscape	Select this mode when you want to capture an image with infinity focus, hard sharpness and high saturation.
 Sports	Select this mode when you want to capture fast-moving subjects.
 Night Portrait	Select this mode when you want to capture people with an evening or night scene background.
 Night Scene	Select this mode when you want to capture dark scenes such as night views.
 Candlelight	Select this mode when you want to capture photos of candlelight scene, without spoiling the ambience.
 Fireworks	Select this mode when you want to capture fireworks clearly with optimal exposure. The shutter speed becomes slower, so using a tripod is recommended.
 Text	Select this mode when you want to capture an image that contains black and white subjects like printed documents.
 Sunset	Select this mode when you want to capture a sunset. This mode helps keep the deep hues in the scene.
 Sunrise	Select this mode when you want to capture a sunrise. This mode helps keep the deep hues in the scene.
 Splash Water	Select this mode when you want to capture photos of splashing water.
 Flow Water	Select this mode when you want to capture the soft flowing water.
 Snow	Select this mode when you want to capture clear snow scenes without darkened subjects and bluish tint.
 Beach	Select this mode when you want to capture bright beach scenes and sunlit water surfaces.
 Pets	Select this mode when you want to capture your pets. Shoot from their eye level.
 Natural Green	Select this mode when you want to capture the green scenery background such as forest. This mode helps to brighten the colors.



Taking Images with Intelligent Scene mode

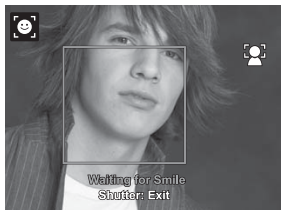
In this Intelligent Scene mode, the camera can sense the ambient conditions and automatically select the ideal shooting mode.

1. Press the **MODE** button, and set the camera mode to [], and press the **SET** button.
2. Select [Intelligent Scene] with the ◀ / ▶ / ▲ / ▼ buttons, and press the **SET** button.
 - The camera can automatically select best mode for the shooting scene from [Auto] / [Landscape] / [Backlight] / [Portrait] / [Night] / [Night Portrait] / [Macro].
3. Compose the image, and press the shutter button down fully.

Taking Images When the Smile Feature Is On

With the camera's new "smile detection" function, this camera detects smiles so you do not miss those special moments in life.

1. Press the **MODE** button, and set the camera mode to [], and press the **SET** button.
2. Select [Smile Detection] with the ◀ / ▶ / ▲ / ▼ buttons, and press the **SET** button.
3. Compose the image, and press the shutter button down fully.
4. Once the camera detects a smile, it will automatically capture 3 images (by default, the flash mode setting is set to ).
 - If the [Capture Md.] is set to [Single], the camera will only capture an image after it detects a smile.
 - When capturing group shots (if the number of people is more than 1), the camera will automatically capture the image(s) when it detects two smiles.
 - If the camera does not detect a smile within 5 seconds, the camera returns to preview display.
 - Press the shutter button once again to reactivate this function.



Taking and Combining Panoramic Pictures

Pictures are manually shot, and the camera automatically combines pictures in the camera.

1. Press the **MODE** button, and set the camera mode to [📷], and press the **SET** button.
2. Select [Panorama PanCapture] with the ◀ / ▶ / ▲ / ▼ buttons, and press the **SET** button.
3. Select the photographic direction with the ◀ / ▶ buttons.
4. Shoot the first image.
 - The next image appears beside the previous image.
5. Orient the camera so that the second frame overlaps a small portion of the photographic subject of the first image and press the shutter button to capture the next image.
6. Follow the same steps to capture subsequent images in the sequence.
7. After the third picture is taken, the pictures are automatically combined.

Mode of Skin Soften and De-blemish

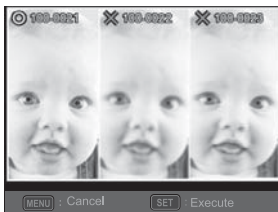
In order to make face taken look better and younger, mode of Skin Soften is added to reduce artifacts on faces, while mode of De-blemish is to reduce obvious blemishes and big spots on faces.

1. Press the **MODE** button, and set the camera mode to [📷], and press the **SET** button.
2. Select [Skin Soften] or [De-blemish] with the ◀ / ▶ / ▲ / ▼ buttons, and press the **SET** button.
3. Compose the image, and press the shutter button down fully.

Find Blur Function




With the camera's new "Find Blur" function, this camera finds the blurry photo when capture under Continuous.

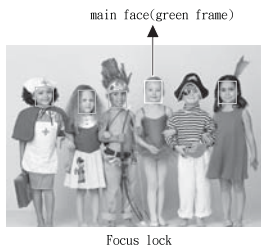
1. Press the **MODE** button, and set the camera mode to [📷].
2. Press the **MENU** button, and select [Find Blur] icon with the ▲ / ▼ buttons. Set "Find Blur" on.
3. Press the shutter button to return to preview display.
4. Press the shutter button down fully to capture your image.
5. Press the **SET** button to save the best image.
 - Press the **MENU** button to save all images.



Recording Shots using Face Detection Technology

Face Detection Technology can identify and focus on the human faces in the image.





1. Press the **MODE** button, and set the camera mode to [].
2. Press the  button, and select [] icon with the ◀ / ▶ buttons. Press the **SET** button.
 - With Face Detection turned on, the camera identifies main face (white frame) and subsidiary faces (gray frames).
 - If the camera cannot detect and track any faces, there will be no frame shown on the screen.
3. Press the shutter button halfway down to lock the focus.
 - When the main face is in focus, the white frame simultaneously turns green. Otherwise, it turns red.
4. Press the shutter button down fully to capture your image.



- Subjects that are not suitable with this function:
 - a. A person is wearing glasses, sunglasses, or face is covered with hat or hair.
 - b. A person turns sideways.


Self-portrait Function

Use this function to take pictures of yourself or include yourself in pictures.

1. Press the **MODE** button, and set the camera mode to [].
2. Press the  button, and select [] icon with the ◀ / ▶ buttons. Press the **SET** button.
3. Press the shutter button.
4. If the camera detect and track any faces, after twice blinking of the self-timer LED, one image will be captured.
 - Press the shutter button to exit.
 - If it does not detect any face within 30 seconds, the camera will automatically capture an image and return to preview display.
 - Select [] to reactivate this function.

Taking images with Interval Capture mode




This mode is used to capture continuous images at a preselected time interval.

1. Press the **MODE** button, and set the camera mode to [].
2. Press the **MENU** button, and select [Capture Md.] with the ▲ / ▼ buttons, and press the **SET** button.
3. Select [Interval capture] with the ◀ / ▶ buttons, and press the **SET** button.
4. Press the **MENU** button, to exit from the [Capture] menu,
5. Press the ▼ button and select the desired option item with the ◀ / ▶ buttons and press the **SET** button.
 - Self-timer is disable in interval capture mode.
 - You can select desired option item from [10 Sec.] / [30 Sec.] / [5 Min.] / [30 Min.] / [1 hr.].
6. Compose the image, and press the shutter button down fully.
 - The camera will countdown from your preselected time interval and take the first picture.
 - The LCD display will turn off after 2 seconds to save battery power.
 - The camera will continue to take images at the preselected time interval, until:
 - a. Pressing the shutter button again.
 - b. The memory card is full.
 - c. The battery is empty.



AF Tracking Mode


Use this option to take pictures of moving subject.

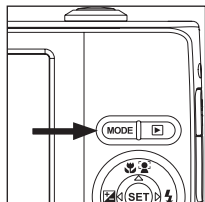
1. Press the **MODE** button, and set the camera mode to [].
2. Press the  button, and select [] icon with the ◀ / ▶ buttons. Press the **SET** button.
3. To lock the desired tracking subject, press the ▼ button.
 - The frame automatically tracks the subject movement to focus on it continuously.
4. Press the shutter button down fully to capture your image.
 - When the camera fails to recognize or track the subject, the frame will turns red and blinks. After blinking of the red frame, the camera returns to unlock display.
 - Press the ▼ button, to returns to unlock display.

VIDEO MODE

Recording Video Clips

This mode allows you to record video clips at a resolution of 320 x 240 / 640 x 480 / 720p pixels.


1. Press the **MODE** button, and set the camera mode to [].
2. Compose the image.
3. Press the shutter button.
 - The recording of the video clip will start.
 - Pressing the shutter button one more time will end the recording of the video clip.
 - The recording time depends on the storage size and the subject of the image to be recorded.
 - The zoom function cannot be used during video recording.



-
- When recording a video clip, the flash and "10+2 sec." self-timer function cannot be used.
 - If the write speed of your SD/SDHC memory card is not fast enough for recording video clips in the currently selected quality, the video recording will stop. In this case, select a video quality lower than the current one.

Playing Back Video Clips

You can play back recorded video clips on the camera. You can also play back sound if recorded with the video.

1. Press the  button.
 - The last image appears on the screen.
2. Select the desired video clip with the ◀ / ▶ buttons.
3. Press the **SET** button.
 - A press of the ▶ / ◀ buttons during playback allows fast forward play / fast reverse play.
 - To stop video playback, press the ▼ button. This stops playback and returns to the start of the video clip.
 - To pause video playback, press the **SET** button. This pauses video playback. To cancel pause, press the **SET** button again.










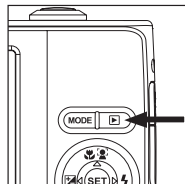
-
- Video clips cannot be displayed rotated or enlarged.
 - Windows Media player or QuickTime Player is recommended to play back the video clip on your computer.
 - QuickTime Player is a free media player available at www.apple.com; and compatible with Mac and Windows computers.
 - For more information about the operation of the media player, refer to its respective help documentation.

PLAYBACK MODE

Playing Back Still Images

You can play back the still images on the LCD monitor.

1. Press the  button.
 - The last image appears on the screen.
2. The images can be displayed in forward or reverse sequence with the  /  buttons.
 - To view the previous image, press the  button.
 - To view the next image, press the  button.
 - Turn the zoom lever to  side enlarges the image.
 - To return to normal magnification, turn the zoom lever to  side.












Entire image Current position of enlargement





- An  icon is displayed with images which have an audio memo recorded.

Playback Display

This function allows you to search quickly for the image that you want and playback images on the LCD monitor sequentially.

1. Press the  button.
 - The last image appears on the screen.
2. Press the  button to display the next 10th image.
 - If the 1st image taken is displayed, press the  button to playback the 11th image taken. Press the  button again to playback the 21th image taken and so forth.
3. Press the  button to display the previous 10th image.
4. Press and hold the  /  buttons to display the previous or next images automatically in sequential order.
 - Release the  /  buttons if you wish to stop the automatic playback.

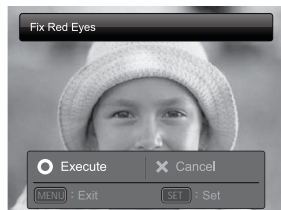
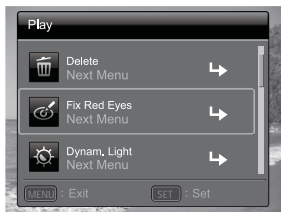


- If the total number of images is less than 10, press the  button jumps to the first image and press the  button jumps to the last image.

Removing Red-eye

You can use this function to remove the red-eye effect after an image is taken.

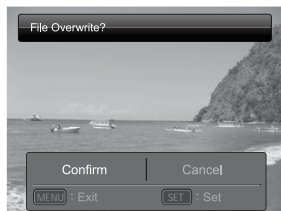
1. Press the **[]** button.
 - The last image appears on the screen.
2. Select the image that you want to edit with the **[◀ / ▶]** buttons.
3. Press the **MENU** button.
4. Select [Fix Red Eyes] with the **[▲ / ▼]** buttons, and press the **SET** button.
5. Select [Execute] with the **[◀ / ▶]** buttons, and press the **SET** button.
6. View the changes on the corrected image.
7. To save your corrected image, select [Confirm] with the **[◀ / ▶]** buttons, and press the **SET** button.
 - When this process ends, this replaces the original image with the corrected image.



Dynamic Lighting Feature




This feature compensates for the unfavorable lighting conditions by brightening underexposed areas and balancing overexposed areas.

1. Press the **[]** button.
 - The last image appears on the screen.
2. Select the image that you want to edit with the **[◀ / ▶]** buttons.
3. Press the **MENU** button.
4. Select [Dynam. Light.] with the **[▲ / ▼]** buttons, and press the **SET** button.
5. Select [High] or [Low] with the **[◀ / ▶]** buttons, and press the **SET** button.
6. View the changes on the corrected image.
7. To save your corrected image, select [Confirm] with the **[◀ / ▶]** buttons, and press the **SET** button.
 - When this process ends, this replaces the original image with the corrected image.



Attaching Voice Memos

A maximum of 30 seconds of audio can be recorded as a memo for captured still images. The voice memo can be recorded only once.

1. Press the  button.
 - The last image appears on the screen.
2. Select the image to which you want to attach the voice memo with the ◀ / ▶ buttons.
3. Press the **MENU** button.
4. Select [Voice Memo] with the ▲ / ▼ buttons, and press the **SET** button.
5. Press the **SET** button.
 -  is displayed on the screen and recording starts.
6. To stop recording a voice memo as it is being recorded, press the **SET** button again.
 - An  icon is displayed with images that have been recorded with a voice memo.



- RE-REC mode can only be used for the recorded and selected file, and it can record voice memo repeatedly to replace the previous recordings.

Playing back voice memo

A press of the **SET** button displays  and plays back the voice memo.

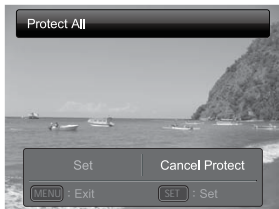


- Voice memo is only available for still images.

Protecting Images

Set the data to read-only to prevent images from being erased by mistake.

1. Press the **□** button.
 - The last image appears on the screen.
2. Select the image that you want to protect with the **◀ / ▶** buttons.
3. Press the **MENU** button.
4. Select [Protect] with the **▲ / ▼** buttons, and press the **SET** button.
5. Select [Single] or [All] with the **◀ / ▶** buttons, and press **SET** button.
6. Select [Set] with the **◀ / ▶** buttons, and press the **SET** button.
 - Protection is applied to the image and the camera returns to the playback mode.
 - The protect icon [🔒] is displayed with protected images.When [All] has been selected, [🔒] is displayed with all the images.



Canceling the Protection

To cancel protection for only one image, display the image on which you want to remove the image protection.

















1. Press the **□** button.
 - The last image appears on the screen.
2. Select the image that you want to cancel protection with the **◀ / ▶** buttons.
3. Press the **MENU** button.
4. Select [Protect] with the **▲ / ▼** buttons, and press the **SET** button.
5. Select [Single] or [All] with the **◀ / ▶** buttons, and press the **SET** button.
6. Select [Cancel Protect] with the **◀ / ▶** buttons, and press the **SET** button.
 - The removal of image protection is executed and the camera returns to the playback mode.

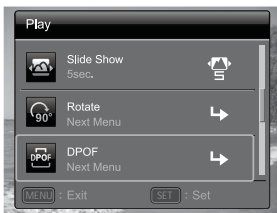


- Formatting an SD/SDHC memory card overrides protection, and erases all images regardless of their protected status.

DPOF Settings

DPOF is the abbreviation for Digital Print Order Format, which allows you to embed printing information on your memory card. You can select the images to be printed and how many prints to make with the DPOF menu in the camera and insert the memory card to the card compatible printer. When the printer starts printing, it will read the embedded information on the memory card and print the specified images.


1. Press the  button.
 - The last image appears on the screen.
2. Select the image that you want to set DPOF with the  /  buttons.
3. Press the **MENU** button.
4. Select [DPOF] with the  /  buttons, and press the **SET** button.
 - The DPOF setting screen is displayed.
5. Select [Single] or [All] with the  /  buttons, and press the **SET** button.
 - [Single]: Sets DPOF for each individual image.
 - [All]: Sets DPOF for all images at once.
6. Select [Print Num.] with the  /  buttons, and press the **SET** button.
 - This displays the number of prints setting screen.
7. Set the number of prints with the  /  buttons, and press the **SET** button.
8. Select [Date Print] with the  /  buttons, and press the **SET** button.
 - The date setting screen appears.
9. Select date to [On] or [Off] with the  /  buttons, and press the **SET** button.
 - [On]: The date of the image will also be printed.
 - [Off]: The date of the image will not be printed.
 - The DPOF icon  is displayed on each image that has set up DPOF settings.

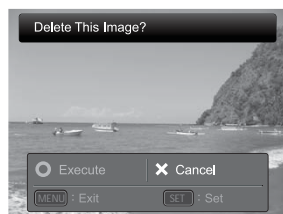
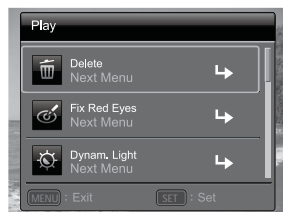


- The date that is printed on the image is the date set on the camera. To print the correct date on the image, set the date on the camera before you capture the image. Refer to the section in this manual titled "Setting the Date and Time" for further details.

Erasing Images

Erasing a single image / Erasing all images

1. Press the  button.
 - The last image appears on the screen.
2. Select the image you want to erase with the ◀ / ▶ buttons.
3. Press the **MENU** button.
4. Select [Delete] with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Single] or [All] with the ◀ / ▶ buttons, and press the **SET** button.
 - [Single]: Erases the selected image or the last image.
 - [All]: Erases all of the images except for the protected images.
6. Select [Execute] with the ◀ / ▶ buttons, and press the **SET** button.
 - To not erase, select [Cancel], and press the **SET** button.
7. To exit from the menu, press the **MENU** button.



MENU OPTIONS

Capture Menu

This menu is for the basic settings to be used when capturing still images.



1. Press the **ON/OFF** button to turn the power on.
2. Press the **MODE** button, and set the camera mode to any scene mode.
3. Press the **MENU** button to enter the [Capture] menu.
4. Select the desired option item with the **▲ / ▼** buttons, and press the **SET** button to enter its respective menu.
 - The selectable items may vary in different capture modes.
5. Select the desired setting with the **◀ / ▶** buttons, and press the **SET** button.
6. To exit from the menu, press the **MENU** button.

Size

This sets the size of the image that will be captured.

* 14M / 8M / 4M / 2M / VGA

ISO

This sets the sensitivity for capturing images. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainier) the image will appear.

* Auto / ISO100 / ISO 200 / ISO 400 / ISO 800 / ISO 1600 / ISO 3200

Quality

This sets the quality (compression) at which the image is captured.

* Fine / Standard / Economy

W. Balance

This sets the white balance for a variety of lighting conditions and permits images to be captured that approach the conditions that are seen by the human eye.

* Auto / Incand. / Fluoresc.1 / Fluoresc.2 / Daylight / Cloudy / Manual WB

Sharpness

This sets the sharpness of the image that will be captured.

* Hard / Standard / Soft

Color

This sets the color of the image that will be captured.

* Standard / Vivid / Sepia / B&W / Blue / Red / Green / Yellow / Purple

Saturation

This sets the saturation of the image that will be captured.

* High / Standard / Low

Metering

This sets the metering method for calculating the exposure.

- * Center: Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
- * Spot: A very small portion of the center of the screen is measured to calculate the correct exposure.
- * Average: The exposure is measured all of the image area.

Image Stab.

This sets whether or not to use image stabilization at the time of photography. This function minimizes the influences of hand shaking when you want to capture an image.

* On / Off

Capture Md.

This sets the recording method at the time of capturing images.

- * Single: Captures one image at a time.
- * Continuous: Permits continuous capture of up to 3 images.
- * AEB: Permits 3 consecutive images in the order of standard exposure, underexposure and overexposure compensation.
- * Album Shot: Creates an album-like layout to combine 3 shots into a single image.
- * Burst: Permits continuous photography while pressing and holding the shutter button. As long as you hold the shutter button pressed, images are captured until the memory capacity is exhausted.
- * Cont.flash: Permits continuous capture of up to 3 images with flash.
- * Pre-shot: Select a background by 1st shot, the image shown on display will be transparent, then take the 2nd shot on the basis of 1st image. Image of 1st shot is only a guiding tool, it won't be saved on SD card. Normally this function is used when taking a portrait picture and the background is selected by the model instead of the photographer.
- * Coupl.shot: Uses separate areas to combine two shots. You can include yourself in the shot.

* Burst 30fps: Permits continuous capture of up to 30 images in the resolution 640 x480 within 1 second.

* Interval capture: Captures continuous images at a preselected time interval.

Quick Shot

If this function is set to "On", the camera takes a quick shot without focusing.

* On / Off

Digi. Zoom

This sets whether or not to use digital zoom at the time of photography.

* On / Off

Find Blur

Refer to the section in this manual titled "Find Blur Function" for further details.

* On / Off

Preview

This sets whether or not to display the captured image on the screen immediately after the image is captured.

* On / Off

Date Print

The date of recording can be printed directly on the still images. This function must be activated before the image is captured.

* On / Off

Setup

Refer to the section in this manual titled "Setup Menu" for further details.

Video Menu

This menu is for the basic settings to be used when recording video clips.



1. Press the **MODE** button, and set the camera mode to [📷].
2. Press the **MENU** button to enter the [Video] menu.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ◀ / ▶ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Size

This sets the size of the video clip that will be captured.

* HD / VGA / QVGA

Quality

This sets the quality (compression) at which the video clip is captured.

* Fine / Standard

Color

This sets the color of the video clip that will be captured.

* Standard / Vivid / Sepia / B&W / Blue / Red / Green / Yellow / Purple

Audio

This sets whether or not to record audio at the time of video recording.

* On / Off

Digi. Zoom

Refer to the section in this manual titled "Digi. Zoom" in Capture Menu for further details.

Setup

Refer to the section in this manual titled "Setup Menu" for further details.

Playback Menu

In the [] mode, choose which settings are to be used for playback.



1. Press the [] button.
2. Press the **MENU** button.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ◀ / ▶ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Delete

Refer to the section in this manual titled "Erasing Images" for further details.

Fix Red Eyes

Refer to the section in this manual titled "Removing Red-eye" for further details.

Dynam. Light.

Refer to the section in this manual titled "Dynamic Lighting Feature" for further details.

Slide Show

This function enables you to play back your still images automatically in order one image at a time.

* 3 Sec. / 5 Sec. / 10 Sec.

Rotate

If you wish to rotate a still image 90 degrees to the right, select +90°; if you wish to rotate it 90 degrees to the left, select -90°. Video clips cannot be rotated.

* +90° / -90°

DPOF

Refer to the section in this manual titled "DPOF Settings" for further details.

Protect

Refer to the section in this manual titled "Protecting Images" for further details.

Voice Memo

Refer to the section in this manual titled "Attaching Voice Memos" for further details.

Resize

Resizes a previously saved image. Resizing replaces the original image with the changed image. It is only possible to resize to a smaller size.

Qual. Change

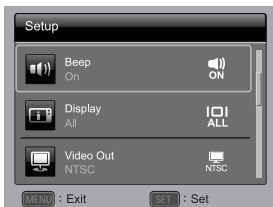
Changes the quality (compression) of a recorded image. Compress images down to half of their size or less, overwrite old size images with newly compressed images. It is only possible to reduce the image quality/size, never to increase it.

Setup

Refer to the section in this manual titled "Setup Menu" for further details.

Setup Menu

Set your camera's operating environment.



1. Press the **MODE** button, and set the camera mode to [] or []; or press the button.
2. Press the **MENU** button.
3. Select the [Setup] at the end of the Menu with the / buttons, and press the **SET** button.
4. Select the desired option item with the / buttons, and press the **SET** button to enter its respective menu.
5. Select the desired setting with the / buttons, and press the **SET** button.
6. To exit from the menu, press the **MENU** button.

Date/Time

Refer to the section in this manual titled "Setting the Date and Time" for further details.

Language

Refer to the section in this manual titled "Choosing the Language" for further details.

Auto Off

If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful for reducing battery usage.

* Off / 1 Min. / 2 Min. / 3 Min.

Beep

This sets whether or not to mute the camera sound each time you press the camera's buttons.

* On / Off

Display

This sets the image information display state.

* Standard / All / Off

Video Out

This sets your camera to match the system of the equipment that you are going to connect to the camera.

* NTSC / PAL

Fr. No. Reset

This creates a new folder. The captured images are recorded to the newly created folder from number 0001.

* Execute / Cancel

Light Freq.

This camera supports different lighting frequencies: 50 Hz and 60 Hz. When photographing under fluorescent lighting, select the correct frequency setting depending in your local area's voltage.

* 50 Hz / 60 Hz

LCD Bright.

Select a brightness level for the LCD monitor.

* Standard / Bright

Format

Refer to section in this manual titled "Formatting the Memory Card" for further details.

Media Info.

This displays the free capacity of the memory card.

Sys. Info.

This displays the firmware version of the camera.

Sys. Reset

This returns all basic settings to the camera's default settings.

* Execute / Cancel

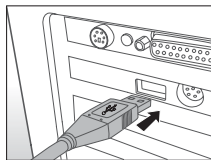
TRANSFERRING FILES TO YOUR COMPUTER

System Requirement

Windows	Macintosh
<ul style="list-style-type: none">■ Pentium III 1GHz or equivalent■ Windows 7/XP/Vista■ 512MB RAM■ 150MB available hard disk space■ CD-ROM drive■ Available USB port	<ul style="list-style-type: none">■ PowerPC G3/G4/G5■ OS 10.3.9 or later■ 256MB RAM (512 MB recommended)■ 128MB available hard disk space■ CD-ROM drive■ Available USB port

Downloading Your Files

1. Turn on your camera.
 2. Connect the camera to your computer with the USB cable.
 3. Select [PC] using the ▲ / ▼ buttons and press the **SET** button.
 4. From the Windows desktop, double click on "My Computer".
 5. Look for a new "removable disk" icon.
 6. Double click on the removable disk and locate the DCIM folder.
 - Your recorded images and video clips will be inside the folders of DCIM folder.
 - Copy&Paste or Drag-N-Drop image and video files to a folder on your computer.
- Mac users:** Double-click the "untitled" or "unlabeled" disk drive icon on your desktop. iPhoto may automatically launch.



-
- With this [YouTube] function, we can upload our image and video to "YouTube" net easily. The function is supported by Windows XP and Vista.

EDITING SOFTWARE INSTALLATION

Softwares are included on the CD-ROM:

ArcSoft MediaImpression™ - Easily, creatively, and productively manage your multimedia files. Create your own movies or photo slide shows, and share your photo, video and music files easily through simple email attachments or popular photo printing and video sharing websites.

To install software:

1. Insert the CD-ROM that came with the camera into your CD-ROM drive.
The welcome screen appears.
2. Click the respective software name.
Follow the on-screen instructions to complete the installation.



-
- For more information about the operation of the software, refer to its respective help documentation.
 - For Windows 7/XP/Vista users, please make sure to install and use the software in "Administrator" mode.
 - The software is not supported by Mac.

SPECIFICATIONS

Item	Description
Image sensor	1/2.33" CCD sensor (14.0 megapixels)
Image resolution	Still image 14M (4288X3216), 8M(3264 x 2448), 4M (2304x1728), 2M(1600 x 1200), VGA(640 x 480) Video clip HD(720p), VGA(640x480), QVGA(320x240)
LCD monitor	3.0" full color TFT LCD (230K pixels)
Recording media	Supports SD/SDHC memory card (1 ~ 32GB) (optional)
File format	DCF, JPEG (EXIF 2.2), DPOF, Motion-JPEG (AVI), HD720p
Lens	7x optical zoom lens Aperture range: 3.0(W) - 5.9(T) Focal length: 5.0mm - 35mm (equivalent to 28mm - 196mm on a 35mm camera)
Focus Range	Super Macro: 0.02m~Inf. Macro: 0.2m~Inf.(W) 0.6m~Inf (T) Normal: 0.6m~Inf (W) 1m~Inf (T)
Shutter speed	2~ 1/2000 Sec.
Digital zoom	6x (Capture mode) 4x (Playback mode)
Terminals	USB/AV OUT (2 in 1 terminal)
Power supply	Rechargeable Lithium-ion battery (3.7V)
Battery Charging environment	Temperature 0°C - 40°C(32°F to 104°F)(Charging)
Dimensions	Approx. 97.5 x 57 x 19.7mm (without protruding parts)
Weight	Approx. 110g (without battery and memory card)
















* Design and specifications are subject to change without notice.

APPENDIX







Possible Number of Shots

Possible number of shots (still image)

The table shows the approximate shots that you can capture at each setting based on the capacity of the SD/SDHC memory card.

Size	Quality	SD/SDHC memory card capacity					
		1GB	2GB	4GB SDHC	8GB SDHC	16GB SDHC	32GB SDHC
14 MP 4288 x 3216	 Fine	171	349	686	1397	2812	5641
	 Standard	292	594	1167	2377	4783	9595
	 Economy	489	996	1957	3983	8014	16077
8 MP 3264 x 2448	 Fine	246	500	983	2002	4029	8083
	 Standard	426	867	1704	3468	6979	14000
	 Economy	736	1498	2942	5988	12049	24171
4 MP 2304 x 1728	 Fine	409	833	1636	3331	6703	13446
	 Standard	670	1364	2679	5453	10973	22012
	 Economy	1141	2322	4559	9279	18671	37454
2 MP 1600 x 1200	 Fine	690	1405	2759	5615	11298	22665
	 Standard	1114	2267	4452	9061	18232	36573
	 Economy	1872	3808	7479	15220	30623	61430
VGA 640 x 480	 Fine	2324	4728	9283	18893	38013	76255
	 Standard	3358	6830	13411	27292	54913	99999
	 Economy	5038	10245	20117	40939	82370	99999

Possible recording time / sec (video clip)

Size	Quality	SD/SDHC memory card capacity					
		1GB	2GB	4GB SDHC	8GB SDHC	16GB SDHC	32GB SDHC
HD 1280 x 720	 Fine	0:06:04	0:12:21	0:24:16	0:49:23	1:39:22	3:19:20
	 Standard	0:06:49	0:13:53	0:27:16	0:55:31	1:51:42	3:44:05
VGA 640 x 480	 Fine	0:07:35	0:15:25	0:30:17	1:01:38	2:04:01	4:08:48
	 Standard	0:13:34	0:27:36	0:54:12	1:50:18	3:41:57	7:25:13
QVGA 320 x 240	 Fine	0:22:25	0:45:36	1:29:33	3:02:15	6:06:42	12:15:36
	 Standard	0:33:16	1:07:40	2:12:53	4:30:26	9:04:08	18:11:31

* The table above shows the approximate maximum recording times. These are the total times for all clips. A video recording will stop automatically when a video clip becomes approx. 4GB or 25 minutes.

* We recommend a memory card of at least 10MB/Sec write speed to prevent auto stop or unexpected results. If you experience an error using a slower SD/SDHC memory card, you can set your camera's video recording to QVGA (320 x 240) and standard quality.

* SDHC Class6 or above is required for HD movie recording.

Troubleshooting

Refer to the symptoms and solutions listed below before sending the camera for repairs. If the problem persists, contact your local reseller or service center.

Symptom	Cause	Solutions / Corrective Actions
The power does not come on.	The battery is not inserted.	Insert the battery correctly.
	The battery is exhausted.	Recharge the battery.
The battery runs out quickly.	The battery is not fully charged. The battery is not used for an extended period of time after being charged.	Fully charge the battery and discharge it for at least one complete cycle before use to maximize its performance and lifetime.
The battery or camera feels warm.	Long period of continuous use of the camera or the flash.	
Even if press the shutter button, the camera does not take a picture.	The shutter button is not pressed all the way down.	Press the shutter button all the way down.
	The memory card does not have any free capacity.	Insert a new memory card, or delete unwanted files.
	The memory card is write-protected.	Remove the write-protection.
Images do not appear on the LCD monitor.	LCD monitor is dark.	Adjust the brightness of the LCD monitor in the menu.
Although it is set to auto focus, it does not focus.	The lens is dirty.	Wipe clean with a soft, dry cloth or lens paper.
	The distance to the subject is smaller than the effective range.	Get your subject within the effective focus range.
The contents on the memory card cannot be played back.	You played back a memory card that was not formatted by this camera.	Insert a memory card that was formatted on this camera.
Files cannot be deleted.	The file is protected.	Cancel protection.
	The memory card is write-protected.	Remove the write-protection.
Even when the camera's buttons are pressed, it does not operate.	The battery is running low.	Recharge the battery.
The date and time are wrong.	The correct date and time is not set.	Set the correct date and time.
Cannot download images.	The free space on the hard disk in your computer may be insufficient.	Check whether the hard disk has space for running Windows, and if the drive for loading image files has a capacity at least that of the memory card inserted in the camera.
	No power supply.	Recharge the battery.



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment. Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local dealer may also take back your old product free of charge if you purchase a similar new one.

*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it: Please contact your local dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

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