E

ENGLISH

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.

TRADEMARK INFORMATION

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- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Computer, Inc.
- SD™ is a trademark.
- Other names and products may be trademarks or registered trademarks of their respective owners.

READ THIS FIRST

Notice:

1. 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.
2. The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your camera.
3. 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.

WARNING

If foreign objects or water have entered the camera, turn the power OFF and remove the battery and the AC power adapter.
Continued use in this state 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 and the AC power adapter.
Continued use in this state 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 specified AC power 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 injury.

Keep the battery out of the reach of children.
Swallowing 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 vehicle.
This might cause you to fall over or result in traffic accident.

CAUTION

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 using the battery in extremely cold environments as low temperatures can shorten the battery life and reduce camera performance.
- When you are using the new rechargeable battery or rechargeable battery that has not been used for an extended period of time (the battery that passed the expiry date is an exception) might affect the number of pictures that can be taken. 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 long period of continuous use of the camera or the flash. This is normal and not a malfunction.
- The camera may feel warm after 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.
- If the battery is not to be used for a long period of time, store it after no battery power left. If the battery is stored for a long time in a fully charged state, its performance may be impaired.
- Always keep the battery terminals in a clean state.

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INTRODUCTION

Overview

Congratulations on your purchase of the new digital camera.
Capturing high-quality digital pictures is fast and easy with this state-of-the-art smart camera. Equipped with a 5.2 Mega pixels CCD, this camera is capable of capturing pictures with a resolution of up to 2560 x 1920 pixels.

Other cool features provided by the camera include the following:

LCD monitor -	2.5" LTPS TFT color LCD monitor makes it easy to frame your subject when taking pictures. It also displays the pictures you have taken.
Recording media -	External memory supports SD card up to 512MB.
Optical zoom -	3x optical lens allows you to take telephoto and wide-angle pictures.
Digital zoom -	4x digital zoom and 3x optical zoom permit zoom photography of up to 12 times; 2x and 4x playback captured images to enlarge a selected portion of an image.
Flexible flash settings -	Change the flash setting according to your lighting environment and photography mode setting.
Focus mode -	Photographs can be taken with the distance to the subject set by auto focus, macro or infinity.
Self-timer mode -	Time selectable between 10 seconds, 2 seconds and 10+2 seconds.
Capture mode -	Take different still images including single, a series of 3 images with different exposures, and 3 images continuously.
Movie mode -	Record video clips with voice.

Voice memo -	A voice memo can be recorded once for 30 seconds at photography mode immediately following a still image captured or at playback mode while viewing the picture.
Camera settings -	Have more control over picture quality by adjusting the menu options.
Thumbnail display -	Display in sets of nine pictures on the LCD monitor for easier and quicker selection of pictures.
TV and PC connection -	View pictures on a television monitor or computer while connected to the USB or A/V cable.
DPOF settings -	Allow you to embed printing information on your SD card and to print your images on a DPOF compatible printer by simply inserting it.

Package Contents

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

Common Product Components:

- Konica Minolta DiMAGE E50 Digital Still Camera
- Hand Strap
- USB Cable
- AV Cable
- SD Memory Card
- Lithium-ion Battery
- Battery Charger/AC Adapter
- Camera Case
- CD-ROM

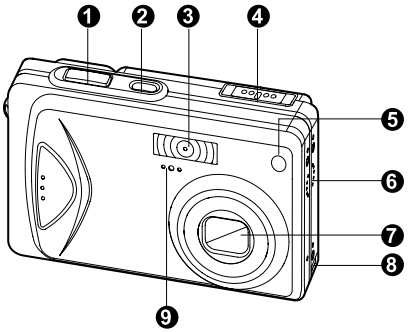
Common (Optional) Accessories:

- Rechargeable lithium-ion battery

Please contact your local camera dealer or the Konica Minolta distributor in your area.

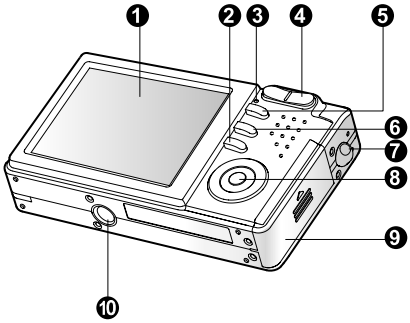
GETTING TO KNOW THE CAMERA

Front View



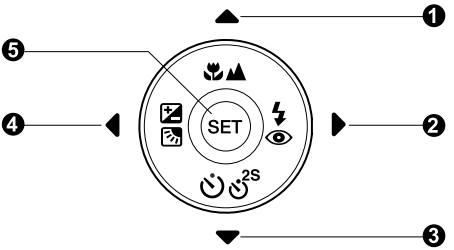
#	Name	Description
1.	Shutter button	Focuses and locks the exposure of the camera when pressed halfway down, and takes the picture when pressed all the way down.
2.	**ON/OFF** button	Turns the camera power on and off.
3.	Flash	Provides flash illumination.
4.	Mode switch	Sets the camera mode.
	📷	Selects this when taking still images.
	🎥	Selects this when recording video clips.
	▶	Performs image playback and deletion.
5.	Self-timer LED (AF auxiliary light)	Blinks red during Self-timer mode until picture is taken.
6.	Speaker	Produces camera sounds and plays recorded audio.
7.	Lens	3x optical zoom lens allows you to take telephoto and wide-angle pictures.
8.	Conversion adapter terminal	Allows you to connect the conversion adapter to an AC power adapter to the camera to operate the camera without battery, or to charge rechargeable lithium-ion battery or to connect a USB cable or an A/V cable to the camera.
9.	Microphone	Records audio clips.

Rear View



#	Name	Description
1.	LCD monitor	Provides menu information to operate the camera, and previews the picture before taking it and review it afterwards.
2.	Display button	Turns the LCD monitor display and live view on and off.
3.	Status LED	Displays the camera current state.
4.	T Zoom in button W Zoom out button	Zooms the lens to telephoto position. Zooms the lens to wide-angle position.
5.	**MENU** button	Toggles OSD menu on and off.
6.	Erase button	Allows you to erase the picture.
7.	Strap holder	Camera strap attachment.
8.	**SET** /Direction button	Allows you to scroll through menus and pictures, and then select choices.
9.	Battery/SD card cover	Allows access to the battery and insert or remove the memory card.
10.	Tripod socket	Allows tripod mounting.

SET /Direction button



#	Name		Description
1.	▲	button	Scrolls upwards.
		Focus button	Allows you to choose the appropriate focus setting.
2.	▶	button	Scrolls right.
		Flash button	Allows you to choose the appropriate flash setting.
3.	▼	button	Scrolls downwards.
		Self-timer button	Allows you to toggle the self-timer on and off, selects the desired self-timer mode.
4.	◀	button	Scrolls left.
		Exposure compensation / Backlight correction button	Allows you to toggle the exposure compensation / backlight correction on and off.
5.	**SET**	button	Enters the menu page and confirms the chosen setting.

Status LED Indicator

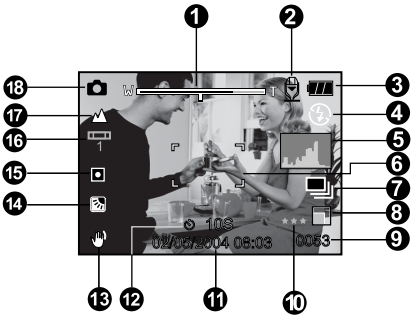
This describes the color and state of the status LED.

Color	State	During power off	During photography	During connection to a PC
Green	On	The completion of battery charge.	AE or AF is locked with the shutter button held halfway.	-
	Flashing	Battery charging in progress.	-	-
Red	On	Battery charging error.	Writing to SD card in progress.	In communication to PC. (SD card is inserted.)
	Flashing	-	When the image is not in focus.	-
Orange	On	-	Charging of the flash in progress.	-
	Flashing	-	Hardware malfunction.	SD card is not inserted.

LCD Monitor Icons

Photography mode [ ]

1. Zoom status
2. Voice memo
3. Remaining battery status
   [ ] Full battery power
   [ ] Medium battery power
   [ ] Low battery power
   [ ] No battery power
4. Flash icon
   [Blank] Auto
   [ ] Red-eye Reduction
   [ ] Forced Flash
   [ ] Suppressed Flash
   [ ] Night Scene
5. [ ] Histogram
6. Focus area (When the shutter button is pressed halfway.)
7. Capture mode icon
   [Blank] Single
   [ ] Continuous
   [**AEB**] Auto Exp.
8. Image size
   [ ] 2560 x 1920
   [ ] 2048 x 1536
   [ ] 1280 x 960
   [ ] 640 x 480
9. Possible number of shots
10. Quality
    [★★★] Fine
    [★★] Standard
    [★] Economy
11. Date and time
12. Self-timer icon
    [**10s**] 10 sec.
    [**2s**] 2 sec.
    [**10+2s**] 10+2 sec.



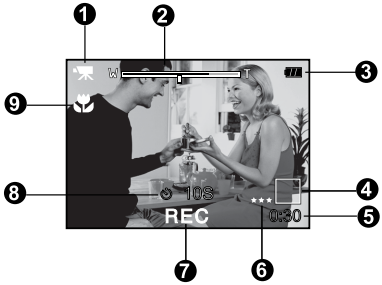
13. Unsteady hold warning icon
14. [ ] Exposure compensation
    [ ] Backlight correction
15. Metering icon
    [Blank]Multi
    [ ] Spot
16. White balance icon
    [Blank]Auto
    [ ] Incandescent
    [ ] Fluorescent 1
    [ ] Fluorescent 2
    [ ] Day Light
    [ ] Cloudy
    [ ] Manual
17. Focus icon
    [Blank] Auto focus
    [ ] Macro
    [ ] Infinity
18. [ ] Still image mode

NOTE

■ Each press of the button switches one step in the sequence of Normal display (displaying the icons, etc), Normal and Histogram, display OFF, LCD monitor OFF.

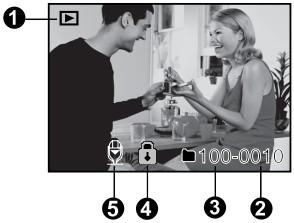
Photography mode [🎥]

1. [🎥] Movie mode
2. Zoom status
3. Remaining battery status
4. Image size
5. Possible recording time / elapsed time
6. Quality
7. Recording indicator
8. Self-timer icon
9. Focus icon



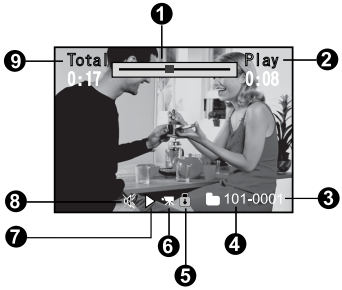
Playback mode [▶] -Still image playback

1. Mode icon
2. File number
3. Folder number
4. Protect icon
5. Voice memo



Playback mode [▶]-Video playback

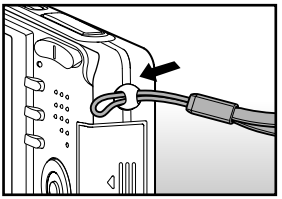
1. Video status bar
2. Elapsed time
3. File number
4. Folder number
5. Protect icon
6. Mode icon
7. Play mode
8. Sound off icon (When the [▲] button is pressed during video playback.)
9. Total time

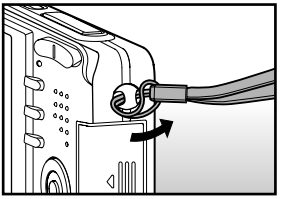


GETTING STARTED

Attaching the Camera Strap

Attach the camera strap as shown in the illustration.



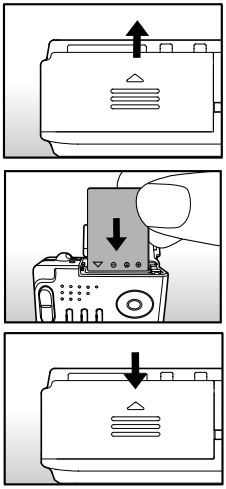


Inserting and Removing the Battery

Only use the specified rechargeable lithium-ion battery (3.7V) . Charge the battery before using the camera. Make sure that the power of the camera is off before inserting or removing the battery.

Inserting the Battery

1. Open the battery/SD card cover.
2. Insert the battery in the correct orientation shown.
   - Tilt the battery lock lever in the direction of the arrow and orient the battery so that its label is facing to the rear side of the camera, and then insert the battery.
3. Close the battery/SD card cover.



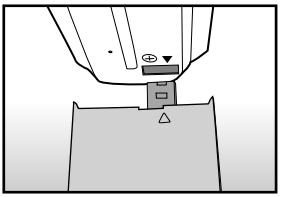
Removing the Battery

Open the battery/SD card cover and then release the battery lock lever. When the battery has come out a little, slowly pull it out the rest of the way.

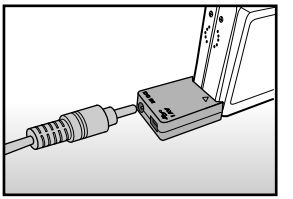
Charging the Battery

Using the Battery Charger/AC Adapter may charge the battery or operate the camera as power supply. Make sure that the power of the camera is off and then insert the battery before starting.

1. Insert the conversion adapter into the conversion adapter terminal of the camera as shown in the illustration.



2. Insert one end of the Battery Charger/AC Adapter into the DC IN terminal of the conversion adapter.
3. Insert the other end of the Battery Charger/AC Adapter into a wall outlet.
   - The status LED flashes green when charging is started and lights green when charging is completed. It lights red when a charging error occurs.
   - It is recommended to fully discharge or exhaust the battery before being charged.
   - Charging time varies according to the ambient temperature and the status of battery.



NOTE

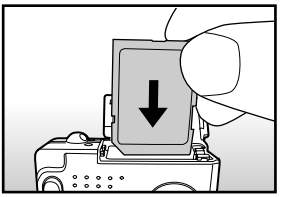
- This camera must be used with specified Battery Charger/AC Adapter. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- When the charging is not started even if following the above procedure, turn the power on at any mode after LCD monitor turns on, and then turn the power off.
- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- When using the camera in cold areas, keep the camera and battery warm by holding them inside your outer cloth.
- If you open the battery cover without removing the battery, the power will not be terminated. If you remove the battery, you have to insert the battery again in a period of 2 hours in order to make sure that the date and time will not be reset.

Inserting and Removing the SD Card

Images photographed with this camera will be stored on the SD card. Without inserting the SD card, you cannot take photographs using the camera. Before inserting or removing the SD card, make sure that the power of the camera is off.

Inserting the SD card

1. Open the battery/SD card cover.
2. Insert the SD card in the correct orientation shown.
   - Hold the SD card with its front side of the SD card (printed arrow) facing the rear side of the camera, and then insert the card as far as it can go.
3. Close the battery /SD card cover.

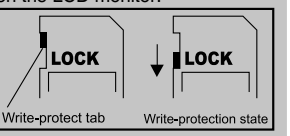


Removing the SD card

Open the battery/SD card cover, press lightly on the edge of the SD card and it will eject.

NOTE

- If the camera is powered on without an SD card inserted into the camera, the "NO CARD" message appears on the LCD monitor.
- To prevent valuable data from being accidentally erased from an SD card you can slide the write-protected tab (on the side of the SD card) to "LOCK".



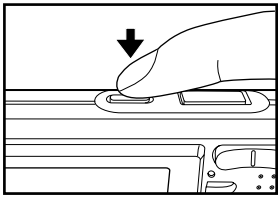
- To save, edit or erase data on an SD card, you must unlock the card.
- This camera does not support MultiMediaCard™.

Turning the Power On/Off

Load the battery and insert an SD card before starting.

Turning the power on

Press the **ON/OFF** button to turn the power on.



- The status LED lights green and the camera is initiated.
- When the power is turned on, the camera will start in the mode that was set.

Turning the power off

Press the **ON/OFF** button to turn the power off.

NOTE

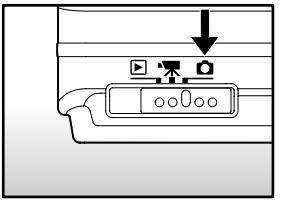
- The power is turned off automatically when the camera has not been operated for a fixed period time. To resume the operation condition, turn the power on again. Refer to section in this manual titled "**Auto OFF**" in the **Setup Menu (In Photography Mode)** for further details.
- After the power is turned on, it may take several seconds to charge the flash. While the flash is being charged, the status LED lights orange, and then the camera is not yet ready for photography. Start photography after the status LED is turned off.

Setting the Date and Time

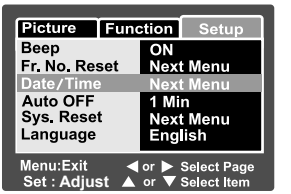
The date/time needs to be set if/when:

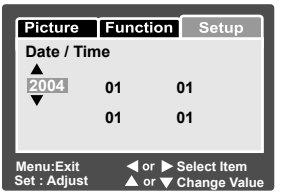
- Camera is turned on for the first time.
- Camera is turned on after leaving the camera without the battery for an extended period of time.

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



1. Slide the mode switch to [📷] or [🎥].
2. Press the **MENU** button and select [Setup] menu with the ▶ button
3. Select [Date/Time] with the ▲ / ▼ buttons and press the **SET** button.
   - The Date/Time setting screen will be displayed.
4. Select the item's field with the ◀ / ▶ buttons and adjust the value for the date and time with the ▲ / ▼ buttons.
   - The date and time is set in the order year-month-day-hour-minute.
   - The time is displayed in 24-hours format.
5. After confirming all settings are correct, press the **SET** button.
   - The setting will be stored and the screen will return to the set-up menu.

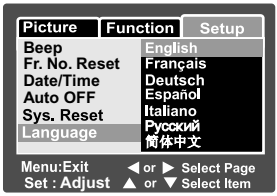




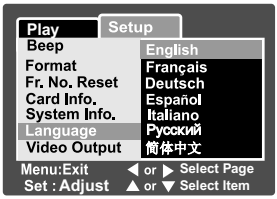
Choosing the Language

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

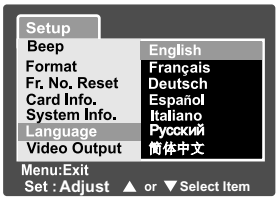
1. Slide the mode switch to [📷] or [🎥] or [▶].
2. Press the **MENU** button and select [Setup] menu with the ▶ button.
   - If no images/video clips are recorded on the SD card, press the **MENU** button and then [Setup] menu is displayed.
3. Select [Language] with the ▲ / ▼ buttons and press the **SET** button.
   - The Language setting screen will be displayed.
4. Select the displayed language with the ▲ / ▼ buttons and press the **SET** button.
   - The setting will be stored.



[📷] / [🎥] Mode



[▶] Mode with Images/Video Clips on SD card

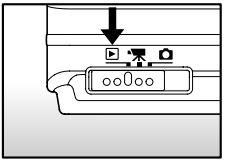


[▶] Mode without Images/Video Clips on SD card

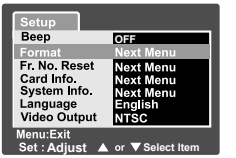
Formatting the SD Card

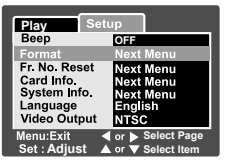
This erases all of the images and folders that have been recorded on the SD card. Formatting is not possible when the SD card in the locked condition.

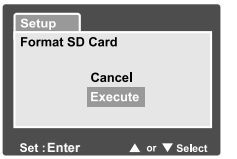
1. Slide the mode switch to [▶].



2. Press the **MENU** button.
   - [Setup] menu is displayed.
   - If images/video clips are recorded on the SD card, press the ▶ button after the **MENU** button is pressed.
3. Select [Format] with the ▲ / ▼ buttons, then press the **SET** button.
4. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To cancel formatting, select [Cancel] and press the **SET** button.







NOTE

- You need to format an SD card before using it for the first time.
- Formatting the SD card also erases the protected images. All data other than images are also erased. Before formatting the card, make sure that all the images are unnecessary.
- Formatting is an irreversible action and data cannot be recovered at a later time.
- An SD card having any problem cannot be properly formatted.

Setting Image Resolution and Quality

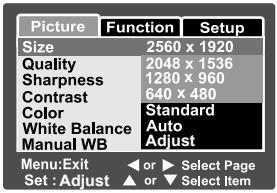
Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored on a memory card. As you get to know the camera, it is recommended that you try each quality and resolution setting to get an appreciation for the effects that these settings will have on your images.

Higher resolution and higher quality images offer the best photographic results but produce large file sizes. Therefore, few images will take up a lot of memory space.

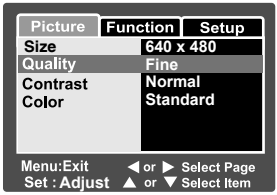
High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.

To change image resolution or image quality, perform these steps below:

1. Slide the mode switch to [📷] or [🎥].
2. Press the **MENU** button.
   - [Picture] of the photography menu is displayed.
3. Select [Size] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Quality] with the ▲ / ▼ buttons, and press the **SET** button.
6. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
7. To exit from the photography menu, press the **MENU** button.



[📷] Mode



[🎥] Mode

Possible number of shots (still image)

The table shows the approximate shots that you can take at each setting based on an optional SD card.

Image size	Quality		SD card capacity				
			32MB	64MB	128MB	256MB	512MB
(5M) 2560 x 1920	★★★	Fine	13	27	55	110	222
	★★	Standard	22	46	93	185	374
	★	Economy	42	86	174	346	698
(3M) 2048 x 1536	★★★	Fine	22	46	93	185	374
	★★	Standard	36	74	150	300	604
	★	Economy	72	149	301	600	1208
(1.2M) 1280 x 960	★★★	Fine	42	86	174	346	698
	★★	Standard	72	149	301	600	1208
	★	Economy	126	258	552	1040	2094
(VGA) 640 x 480	★★★	Fine	145	298	602	1200	2417
	★★	Standard	210	430	870	1734	3491
	★	Economy	379	775	1566	3121	6284

Possible recording time / sec (video clip)

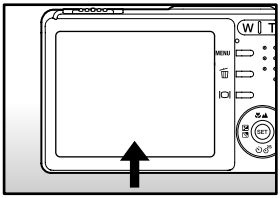
Image size	Quality		SD card capacity				
			32MB	64MB	128MB	256MB	512MB
640 x 480	★★★	Fine	00:40	01:22	02:46	05:32	11:08
	★★	Standard	00:54	01:51	03:44	07:27	15:00
320 x 240	★★★	Fine	01:45	03:34	07:13	14:23	28:59
	★★	Standard	02:36	05:20	10:46	21:28	43:13

* The data shows the standard testing results. The actual capacity varies according to the shooting conditions and settings.

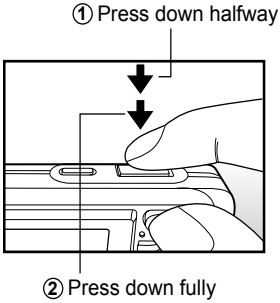
PHOTOGRAPHY MODE

[📷] Still Image Mode

Auto photography is a typical method of photography. Photographs can be taken simply because the exposure (the combination of shutter speed and aperture setting) is controlled automatically to suit the photographic conditions. You can use the 2.5" LCD monitor to compose the images.
Make sure that the battery and SD card are inserted before taking photographs.



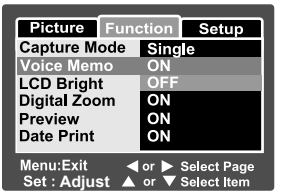
1. Press the **ON/OFF** button to turn the power on.
2. Slide the mode switch to [📷].
   - By default, the LCD monitor setting is on.
3. Compose your image in the LCD monitor.
4. Press the shutter button.
   - Pressing the shutter button down halfway automatically focuses and adjusts the exposure, and pressing the shutter button down fully takes the photographs.
   - The focus area frame turns blue and the status LED lights green when the camera is in focus and the exposure is calculated.
   - When the focus or exposure is not suitable, the frame of the focus area turns yellow and the status LED flashes red.



   - If the photographic preview is set to "ON", the preview image (captured image) will be displayed while the image is being recorded onto the SD card.

Recording Voice Memos

A voice memo can be recorded once for 30 seconds at still image mode immediately following a still image captured or at playback mode while viewing the picture.



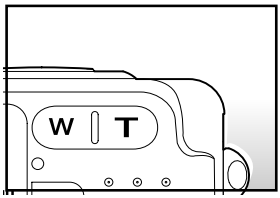
1. Slide the mode switch to [📷].
2. Press the **MENU** button, and select the [Function] menu with the ▶ button.
   - [Function] of the still image menu is displayed.
3. Select [VOICE MEMO] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select [ON] with the ▲ / ▼ buttons, and press the **SET** button.
5. Press the **MENU** button to exit from the still image menu.
   - [🎤] icon is displayed on the screen.
6. Compose the picture, press the shutter button down halfway, then press it down fully.
   - [VOICE RECORDING] is displayed on the screen immediately, and the voice memo recording starts.
7. Press the shutter button one more time during recording, or wait for 30 seconds
   - [VOICE RECORD END] will be displayed and the recording will end.
   - A [🎤] icon is displayed with images that have been recorded with a voice memo.

NOTE

Voice memo is only available in the still single image capture mode.

Using the Optical Zoom

Zoom photography allows you to take zoom photographs up to 3 times the size or wide-angle photography depending on the distance up to the subject. You can also enlarge the center of the screen and take photographs in the digital zoom mode.

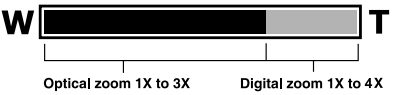


1. Slide the mode switch to [📷] or [🎥].
2. If required, turn on the LCD monitor by pressing the button.
3. Compose the picture with the zoom button.
   - Pressing the T button zooms in on the subject, and enlarges the subject on the LCD monitor.
   - Pressing the W button provides a wider angle picture.
   - The lens position moves according to the zoom button setting.
4. Press the shutter button down halfway, then press it down fully.

Using the Digital Zoom

Using a combination of 3 times optical zoom and 4.0 times digital zoom permits zoom photography of up to 12 times to suit the subject and the distance. The digital zoom is a compelling feature, the more an image is enlarged (zoomed), the more pixilated (grainer) the image will appear.

1. Slide the mode switch to [📷] or [🎥].
2. Turn on the LCD monitor by pressing the ▭ button.
3. To enable the digital zoom:
   a. Press the **MENU** button.
   b. Select [Function] with the ◀ / ▶ buttons.
   c. Select [Digital Zoom] with the ▲ / ▼ buttons, and press the **SET** button.
   d. Select [ON] with the ▲ / ▼ buttons again, and press the **SET** button.
   e. Press the **MENU** button to exit from the menu screen
   f. To activate the digital zoom, press and hold the **T** button completely until the image on the LCD monitor expands.



4. Press the shutter button to capture a "zoomed" image.

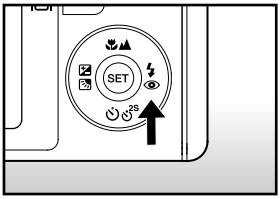
NOTE

- The digital zoom is cancelled when the ▭ button is pressed and the LCD monitor is turned off.
- The zoom setting is automatically cancelled by either turning the camera off or the activation of the Auto OFF function.

Setting the Flash

Set the flash for taking photographs. The flash firing mode can be set to suit for the photographic conditions.

1. Slide the mode switch to [📷].
2. Toggle the ϟ 👁 button to select the desired flash mode.
   - Each press of the ϟ 👁 button moves the icon one step through the sequence and displays it on the screen.



[Blank] Auto → [👁] Red-eye Reduction → [ϟ] Forced Flash → [🌙★] Night Scene → [⊘ϟ] Suppressed Flash

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

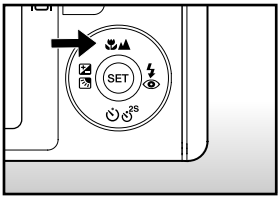
Flash mode	Description
[Blank] Auto	The flash fires automatically to suit the photographic conditions.
[👁] Red-eye Reduction	Use this mode to reduce the red-eye phenomenon when you want to take natural-looking photographs of people and animals in low-light conditions. When taking photographs, the red-eye phenomenon can be reduced by asking the subject (person) to look at the camera or get as close to the camera as possible. The flash always fires twice, and the photograph is taken at the second firing.
[ϟ] Forced Flash	In this mode, the flash always fires. Use this mode for photographing under artificial light such as backlighting, fluorescent lighting, etc.
[⊘] Suppressed Flash	Use this mode when taking pictures using indoor lighting, for stages and indoor competitions, and when the subject is too far away for the flash to be effective.
[☾★] Night Scene	Use this mode when taking pictures of people at dark or night-time background. When the Night Scene is selected, the flash mode is fixed to Slow Synchronization. (the flash is fired at a slower shutter speed.)

- In the [▲] focus mode and capture mode [Continuous] and [Auto Exp.], the flash mode is fixed to [⊘] Suppressed Flash.
- The flash cannot be set in the [🎥] mode.

Setting the Focus

Photographs can be taken with the distance to the subject set by auto focus, [ ] macro or [▲] infinity.
The settings will be maintained even when the power is turned off or when Auto OFF is activated.

1. Slide the mode switch to [ ] or [ ].
2. Toggle the button to select the desired focus mode.
   - Each press of the button moves the icon one step through the sequence and displays it on the screen.



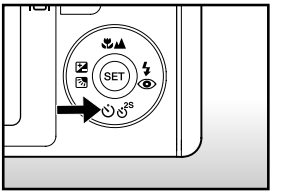
[Blank] Auto focus → [ ] Macro → [▲] Infinity

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

Focus mode	Description
[Blank]Auto Focus	Selects this when you want to leave the settings up to the camera so that you can take photographs without paying attention to settings. Approximately 50 cm to infinity (both Wide and Tele)
[ ] Macro	Selects this when you want to takes a close up photography. Wide (zoom off) : Approximately 6 cm to infinity Tele (at optical zoom 3x) : Approximately 35 cm to infinity
[▲] Infinity	Selects this when you want to take photographs of subjects at a distance of infinity.

Setting the Self-timer

This setting allows photographs to be taken with the self-timer.



1. Slide the mode switch to [📷] or [🎥].
2. Toggle the 2S button to select the setting.
   - Each press of the 2S button moves the icon one step through the sequence and displays it on the screen.
     OFF→[**10s**] 10 sec.→[**2s**] 2 sec.→[**10+2s**] 10+2 sec.→OFF
   - For the [🎥] mode and capture mode ([Continuous] and [Auto Exp.])
     OFF→[**10s**] 10 sec.→[**2s**] 2 sec.→OFF
3. Compose the picture, press the shutter button down halfway, then press it down fully.
   - The self-timer LED flashes and the photograph is taken after the preset time has elapsed.
   - The countdown is displayed on the LCD monitor.
   - To cancel the self-timer during operation, press the **SET** button.

The table below will help you choose the appropriate self-timer mode:

Self-timer mode	Description
[**10s**] 10 sec.	The picture is taken about 10 seconds after the shutter button is pressed.
[**2s**] 2 sec.	The picture is taken about 2 seconds after the shutter button is pressed.
[**10+2s**]10+2 sec.	One picture is taken about 10 seconds after the shutter button is pressed, and the other photograph is taken again after 2 seconds. This is convenient when taking group photographs in succession.

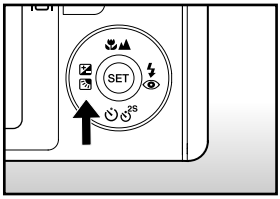
NOTE

- The self-timer setting is automatically cancelled after a photograph is taken.

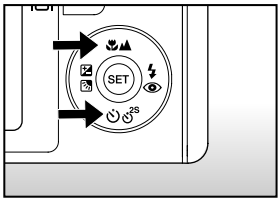
Exposure Compensation/Backlight Correction

Photographs can be taken with the overall screen intentionally made brighter or darker. These settings are used when a suitable brightness (exposure) cannot otherwise be obtained in circumstance where the difference in brightness between the subject and the background (the contrast) is large, or when the subject that you want to photograph is very small within the screen. Exposure can be set in 0.3 EV units.

1. Slide the mode switch to [📷] and press the ☒ button.
   - Each press of the ☒ button displays the setting in the order of [Blank], [☒] Backlight Correction, and [☒] Exposure Compensation.



2. Set the exposure value with the ▲ / ▼ buttons.
   - Press the ▲ button to increase the value.
   - Press the ▼ button to decrease the value.
   - The setting range of the exposure compensation is as follows.
     -2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0, +0.3, +0.7, +1.0, +1.3, +1.7, +2.0
   - The larger the value, the brighter the image. The smaller the value, the darker the image. The set value is displayed on the screen.



Effective Subjects and Set Values

- + (positive) compensation
  * Printed matter comprising black text on whitish paper
  * Backlighting
  * Bright scenes or strong reflected light such as ski slopes
  * When the sky accounts for a large area on the screen

- - (negative) compensation
  * People illuminated by a spotlight, in particular, against dark background
  * Printed matter comprising white text on blackish paper
  * Weak reflecting bodies such as evergreen trees or darkish leaves

- Backlight correction (+1.3, fixed)
  * When the background is bright and the subject is dark.
  * When subjects (people) have a light source such as the sun to their backs.

[🎥] Movie Mode

This mode allows you to record video clips at a resolution of 320 x 240 / 640 x 480 pixels. Voice can also be recorded.

1. Slide the mode switch to [🎥].
2. Compose the picture with the zoom button.
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, and record the image into the SD card.
   - The recording time depends on the storage size and the subject of the image to be recorded.
   - Zoom function cannot be used while a video clip is recording.

NOTE

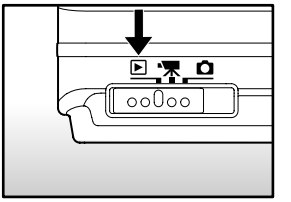
- In the [🎥] mode, the LCD monitor cannot be turned off.
- When recording a video clip, flash photography is not possible.
- While the image is being recorded into the SD card, do not open the battery/SD card cover, nor remove the battery or SD card. Doing so might damage the SD card or destroy the data of the SD card.
- While composing the image, optical zoom and digital zoom functions can be used at the resolution of 320 x 240 pixels. However, digital zoom function cannot be activated at the resolution of 640 x 480 pixels.

[▶] PLAYBACK MODE

Playing Back Still Images

You can play back the still images on an LCD monitor. Insert the SD card into the camera and turn on the power before starting.

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. The images can be fed in reverse or fed forward with the ▲ / ▼ buttons.



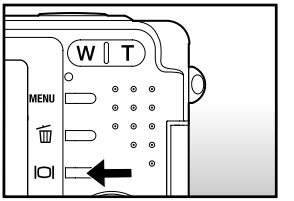


Image Display Information

You can switch the state of the information display by pressing the button when playing back images. Each press of the button switches the information display state in the following order:

NOTE

- Pressing the ◀ / ▶ buttons during image playback will result in a 90 degree rotated display. The ▶ button rotates the image clockwise and displays it, whereas the ◀ button rotates the image counterclockwise and displays it. A press of the button opposite to the direction in which the image was rotated will return the image to the normal display.
- [🎥] icon is displayed with the video data. Video clips cannot be rotated.
- A [🎤] icon is displayed with images which have an audio memo recorded.
- Press the **SET** button to playback the voice memo data.
- The condition of the information display cannot be switched with video clips.

Playing Back Video Clips

You can play back video clips recorded on the camera. You can also play back voice.

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. Select the desired video clip with the ▲ / ▼ buttons.
3. Press the **SE**T 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.

Button Operations

	During Playback	During a Pause	During a Stop
▶ button	Forward play Each press of the ▶ button moves the operation one step in the sequence of 2 times fast forward play, 4 times fast forward play, and regular play.	1-frame feed	
◀ button	Reverse play Each press of the ◀ button moves the operation one step in the sequence of 2 times fast reverse play, 4 times fast reverse play, and regular play.	Reverse 1-frame feed	
▲ button	Sound On/Off	Sound On/Off	The previous image is displayed.
▼ button	Stop (The display returns to the 1st frame playback)		The next image is displayed.
SET button	Pause	Canceling pause	Regular forward play

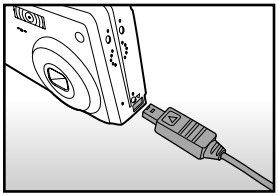
NOTE

- Video clips cannot be displayed rotated or enlarged.

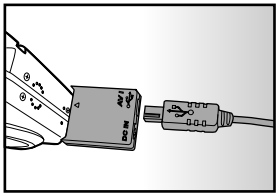
Playing Back Still Images/Video Clips on a TV

You can also playback your images on a TV screen. Before connecting to any devices, make sure to select NTSC / PAL system to match the video output system of the video equipment you are going to connect to the camera, then turn all connected devices off. It is also recommended to use the Battery Charger/ AC Adapter while transferring the recorded images and video files.

1. Slide the mode switch to [▶].
2. Connect one end of the A/V cable to the conversion adapter terminal of the camera.



   - If you use the conversion adapter to connect the A/V cable, insert the conversion adapter into the conversion adapter terminal of the camera first, and then connect one end of the A/V cable to the A/V terminal of the conversion adapter.



3. Connect the other end to the A/V input socket of the TV set.
4. Turn the TV and camera on.
5. Play back the still images / video clips.
   - The method of operation is the same as playing back still images and video clips on the camera.

NOTE

- In the case of the PAL system, images are surrounded by a black frame.
- Refer to section in this manual titled **"Video Output"** in the **Setup Menu (In Playback Mode)** for further details.

Attaching Voice Memos

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

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. Select the image that you want to attach the voice memo with the ▲ / ▼ buttons.
3. Press the shutter button.
   - [VOICE RECORDING] is displayed on the screen and recording starts.
4. To stop recording voice memo during recording, press the shutter button again.
   - [VOICE RECORD END] will be displayed and the recording will end. A [🎤] icon is displayed with images that have been recorded with a voice memo.

Playing back voice memo

A press of the **SET** button displays [VOICE PLAYBACK] and plays back the voice memo.

NOTE

- Voice memo is only available in the still single image capture mode.

Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor at the same time, which can quickly search for the image that you want.

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. Press the **W** button.
   - The images are displayed in the thumbnail display.
   - Images that have been selected with the ▲ / ▼ / ◀ / ▶ buttons will be indicated by a green frame.
   - When there are ten or more images, scroll the screen with the ▲ / ▼ buttons.
3. Press the ▲ / ▼ / ◀ / ▶ buttons to select the image to be displayed at regular size.
4. Press the **SET** button.
   - The selected image is displayed at its regular size.

NOTE

- A [🎥], [🔒], [🎙] icon will be displayed in a thumbnail display.

Zoom Playback

Images that are being play back can be enlarged and displayed in 2 levels of 2 times and 4 times enlargement. This mode also allows you to enlarge your image on the selected portion of the image to check for small details.

1. Slide the mode switch to [▶].
2. Press the ▲ / ▼ buttons to select the image you want to enlarge.
   - You can also select the image you want to enlarge from the thumbnail display.
3. Adjust the zoom ratio with the T / W buttons.
   - Pressing the T button enlarges the image.
   - To return to normal magnification, press the W button.
   - The image is displayed enlarged, and a white frame and green frame are displayed on the LCD monitor.
   - The white frame indicates the entire image, while the green frame shows the location of the currently enlarged area.
4. Press the ▲ / ▼ / ◀ / ▶ buttons to select the area to enlarge.
5. To return to regular display, toggle the W button until the regular display appears on the screen.

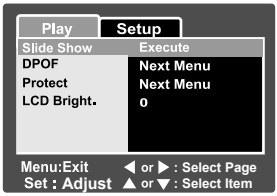
NOTE

- Pressing the T button magnifies the image from 1x —>2x—> 4x.
- Pressing the W button reduces the image from 4x —>2x—> 1x.

Slideshow Display

The slideshow function enables you to playback your still images automatically in order one image at a time.

1. Slide the mode switch to [▶].
2. Press the **MENU** button.
   - The playback menu is displayed.
3. Select [Slide Show] with the ▲ / ▼ buttons, and press the **SET** button.
   - The slideshow starts.
4. To stop the slide show during playback, press the **SET** button.
   - The image is displayed on screen when you press the **SET** button.



NOTE

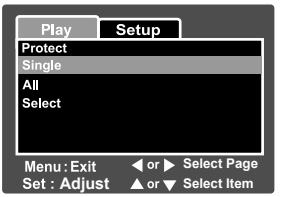
- The Auto OFF function does not operate during slide show.
- All still images in the folder are automatically played back.

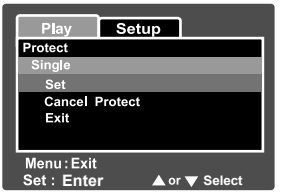
Protecting Images

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

Protecting Images

1. Slide the mode switch to [▶].
2. Select the image that you want to protect with the ▲ / ▼ buttons.
3. Press the **MENU** button.
   - The playback menu is displayed.
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 [Set] with the ▲ / ▼ buttons, and press the **SET** button.
   - Protect is executed and the camera returns to the play 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 that you want to remove the image protection.

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
3. Select [Cancel Protect] with the ▲ / ▼ buttons, and press the **SET** button.
   - The removal of image protection is executed and the camera returns to the play mode.

Protecting multiple images simultaneously

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Select] with the ▲ / ▼ buttons, and press the **SET** button.
   - The images are displayed in the thumbnail display.
3. Select the image you want to protect with the ▲ / ▼ / ◀ / ▶ buttons, and press the ▭ button.
   - The protect icon [🔒] is displayed with protected images. Selecting a protected image and pressing the ▭ button again will cancel the protection. This procedure is repeated to select multiple images.
4. Press the **SET** button.
   - Protection and cancellation the protection are executed and the camera returns to the play mode.

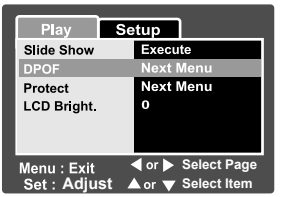
NOTE

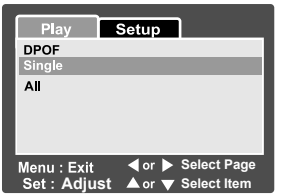
- Formatting the SD card undoes the protection, and erases all images.

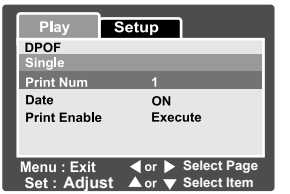
DPOF Settings

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. Slide the mode switch to [▶].
2. Select the image that you want to set DPOF with the ▲ / ▼ buttons.
3. Press the **MENU** button.
   - The playback menu is displayed.
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.
   - You can set up to 9 prints for each image.
8. Select [Date] 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 photograph will also be printed.
     OFF: The date of the photograph will not be printed.
10. Select [Print Enable] with the ▲ / ▼ buttons, and press the **SET** button.
11. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
    - This creates a file containing the DPOF information, and when the operation is finished, the screen returns to the playback screen.
    - To cancel print, simply select [Cancel].

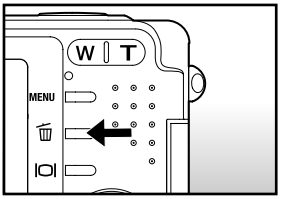
NOTE

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

[🗑] Erasing Images

Erasing at Photography Mode (Quick Delete Function)

Quick delete function enables you to erase the image during photography. The quick delete menu provides you to directly erase the last image without further settings.

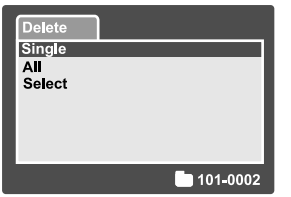


1. Slide the mode switch to [📷] or [🎥].
2. Press the 🗑 button.
   - The last image and quick delete menu appear on the screen.
3. Press the **SET** button to erase the image.
   - To not erase, select [Cancel], and press the **SET** button.

Erasing at Playback Mode

Erasing single image / Erasing all images

1. Slide the mode switch to [▶].
   - The last image will be displayed on the screen.
2. Select the image you want to erase with the ▲ / ▼ buttons..
3. Press the 🗑 button.
   - The deletion menu will be displayed.
4. 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 on the SD card except for the protected images.
     Select: Erases a number of selected images.



5. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To not erase, select [Cancel], and press the **SET** button.

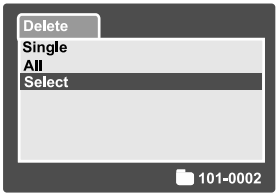
NOTE

- Even if you take photographs after erasing an image, the file number is assigned the next number of the very last one before the image was erased.

Erasing selected images

This erases a number of selected images.

1. Slide the mode switch to [▶].
2. Press the 🗑 button.
   - The deletion menu will be displayed.



3. Select [Select] with the ▲ / ▼ buttons, and press the **SET** button.
   - The images are displayed in the thumbnail display.

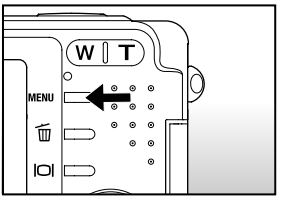
4. Select the image you want to erase with the ▲ / ▼ / ◀ / ▶ buttons, and press the 🗑 button.
   - The [🗑] icon will be displayed. One more press of the erase button will cancel the operation. Repeat this procedure and select all the images that you want to erase.
5. Press the **SET** button.

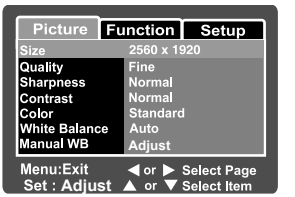
MENU OPTIONS

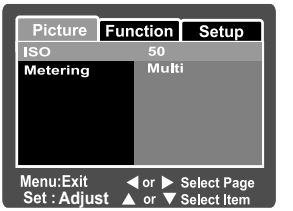
Still Image Menu (Picture)

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

1. Slide the mode switch to [📷].
2. Press the **MENU** button.
   - [Picture] of the still image menu is displayed.
3. Select the desired [Picture] 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 still image menu, press the **MENU** button.







Size

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

[ ] **2560 x 1920:** 2560 x 1920 pixels (5M)
[ ] **2048 x 1536:** 2048 x 1536 pixels (3M)
[ ] **1280 x 960:** 1280 x 960 pixels (1.2M)
[ ] **640 x 480:** 640 x 480 pixels (VGA)

Quality

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

[★★★] **Fine:** Low compression rate.
[★★] **Standard:** Normal
[★] **Economy:** High compression rate

Sharpness

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

Hard: Hard touch
Normal: Normal touch
Soft: Soft touch

Contrast

This sets the difference between the bright and dark portions of the image that will be photographed.

Hard: Increases the contrast.
Normal: Set the contrast automatically.
Soft: Decreases the contrast.

Color

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

Standard: Standard color
Vivid: Bright color
Sepia: Sepia
Monochrome: Black-and-white

White Balance

This sets the white balance photographing under a variety of lighting conditions and permits photographs to be taken that approach the conditions that are seen by the human eye.

[**Blank**] **Auto:** Automatic adjustment.
[ ] **Incandescent:** Photography under incandescent lighting.
[ ] **Fluorescent 1:** Photography under a daylight fluorescent tube with a bluish cast.
[ ] **Fluorescent 2:** Photography under a daylight white fluorescent tube with a reddish cast.
[ ] **Day Light:** Outdoor photography.
[ ] **Cloudy:** Photography under a cloudy sky.
[ ] **Manual:** Photography with a Manual WB.

Manual WB

This manually sets the white balance and stores it. Use of this is convenient when the white balance does not offer a good match.
Before select [Execute] determine the subject (such as a white paper) that will be used to set the white balance.

Cancel: Disable manual white balance.
Execute: Enable manual white balance.

ISO

This sets the sensitivity for taking pictures. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixilated (grainer) the image will appear.

50: Equivalent to ISO50.
100: High-sensitive photography equivalent to ISO100.
200: High-sensitive photography equivalent to ISO200.
Auto: Automatic adjustment.

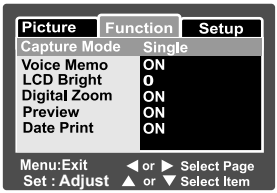
Metering

This sets the metering method for calculating the exposure.

[Blank] Multi: The entire area of the screen is measured, and the exposure is calculated.

[ ] Spot: A very small portion of the center of the screen is measured, and the exposure is calculated.

Still Image Menu (Function)



1. Slide the mode switch to [📷].
2. Press the **MENU** button, and select the [Function] menu with the ▶ button.
   - [Function] of the still image menu is displayed.
3. Select the desired [Function] 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 still image menu, press the **MENU** button.

Capture Mode

This sets the recording method at the time of taking pictures.

[**Blank**] **Single:** Takes one photograph at a time.

[⧉] **Continuous:** Permits continuous photography of 3 pictures max, at the fastest interval of 0.6 seconds.

[**AEB**] **Auto Exp.:** Effective when it is difficult to determine the exposure for continuous photography with exposure at the 3 levels of standard exposure (0), underexposure (-0.67) and overexposure (+0.67) compensation.

- In continuous photography, press and hold the shutter button until 3 images have been captured. If the shutter button is released earlier, the continuous photography will end at that point.

Voice Memo

A voice memo can be recorded for 30 seconds immediately following still single image photography. This feature is also available during playback mode. Refer to section in this manual titled **"Recording Voice Memos"** for further details.

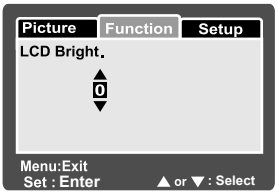
ON: Enable voice memo.

OFF: Disable voice memo.

■ When voice memo is set to on, the preview setting is also fixed to on.

LCD Bright.

Select a brightness level for the LCD monitor. The LCD becomes brighter with the ▲ button and darker with the ▼ button. The adjustment range is from -5 to +5.



Digital Zoom

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

ON: Enable digital zoom.

OFF: Disable digital zoom.

Preview

This sets whether or not to display the photographed image on the screen immediately after the picture is taken.

ON: Displayed when images are being recorded on the SD card.

OFF: Does not display.

NOTE

- A photographed image is displayed on the LCD monitor for 2 seconds. Pressing the shutter button during preview cancels the operation.
- When preview is set to off, the voice memo setting is also fixed to off.

Date Print

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

ON: Imprints the date on the still images when taking pictures.

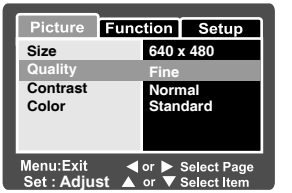
OFF: Does not imprint the date on the still images when taking pictures.

Date imprinted here.

Movie Menu (Picture)

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

1. Slide the mode switch to [🎥].
2. Press the **MENU** button.
   - [Picture] of the movie menu is displayed.
3. Select the desired [Picture] 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 movie menu, press the **MENU** button.



Size

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

[▢] **640 x 480:** 640 x 480 pixels

[▢] **320 x 240:** 320 x 240 pixels

Quality

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

[★★★] **Fine:** Low compression rate.

[★★] **Standard:** Normal

Contrast

This sets the difference between the bright and dark portions of the image that will be photographed.

Hard: Increases the contrast.

Normal: Set the contrast automatically.

Soft: Decreases the contrast.

Color

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

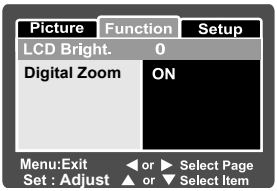
Standard: Standard color

Vivid: Bright color

Sepia: Sepia

Monochrome: Black-and-white

Movie Menu (Function)



1. Slide the mode switch to [🎥].
2. Press the **MENU** button, and select the [Function] menu with the ▶ button.
   - [Function] of the movie menu is displayed.
3. Select the desired [Function] 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 movie menu, press the **MENU** button.

LCD Bright.

Adjust the brightness of the LCD monitor. This function does not adjust the brightness of recorded images.

Refer to section in this manual titled **"LCD Bright."** in **Still Image Menu (Function)** for further details.

Digital Zoom

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

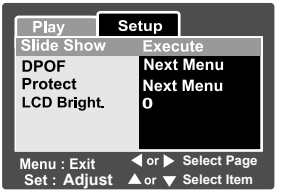
ON: Enable digital zoom.

OFF: Disable digital zoom.

Playback Menu

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

1. Slide the mode switch to [▶].
2. Press the **MENU** button.
   - The playback menu is displayed.
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 playback menu, press the **MENU** button.



Slide Show

Automatically plays back still images in order one image at a time.
Refer to section in this manual titled "**Slideshow Display**" for further details.

DPOF

Set the number of prints and date display in DPOF format to images that you want to print. (This function is available for still images only.) You can print images easily just by inserting the SD card to a DPOF-compatible printer or a print shop.
Refer to section in this manual titled "**DPOF Settings**" for further details.

Protect

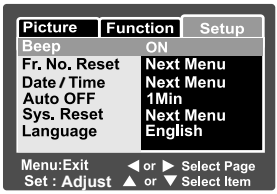
Set the data to read-only to prevent images from being erased by mistake.
Refer to section in this manual titled "**Protecting Images**" for further details.

LCD Bright.

Adjust the brightness of the LCD monitor. This function does not adjust the brightness of recorded images.
Refer to section in this manual titled "**LCD Bright.**" in **Still Image Menu (Function)** for further details.

Setup Menu (In Photography Mode)

Set your camera's operating environment.



1. Slide the mode switch to [📷] or [🎥].
2. Press the **MENU** button, and select the [Setup] menu with the ▶ button.
   - [Setup] of the photography menu is displayed.
3. Select the desired [Setup] 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 photography menu, press the **MENU** button.

Beep

This sets whether or not to mute the startup sound, and the camera sound each time you press the camera button.

ON: Sounds the beep tone.

OFF: Does not sound the beep tone.

Fr. No. Reset

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

Cancel: Does not reset the file number.

Execute: Resets the file number and creates a new folder.

Date/Time

This sets the date and the time.

Refer to section in this manual titled "**Setting the Date and Time**" 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 to reduce battery wear.

1 Min.: When the camera has not been operated, it turns the power off after 1 minute.

2 Min.: When the camera has not been operated, it turns the power off after 2 minutes.

3 Min.: When the camera has not been operated, it turns the power off after 3 minutes.

NOTE

- This function does not operate during a slideshow or during PC connection.

Sys. Reset

This returns all basic settings to the camera's default settings. The time setting will not be reset.

Cancel: Does not return to the default settings.

Execute: Returns to the default settings.

Language

This sets the language that is displayed on the LCD monitor.

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

English: English

Français: French

Deutsch: German

Español: Spanish

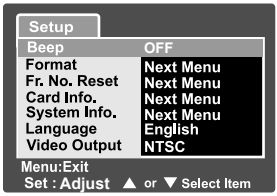
Italiano: Italian.

Русский: Russian

简体中文: Chinese (Simplified)

Setup Menu (In Playback Mode)

1. Slide the mode switch to [▶].
2. Press the **MENU** button.
   - [Setup] of the playback menu is displayed.
   - If images/video clips are recorded on the SD card, press the ▶ button after the **MENU** button is pressed.
3. Select the desired [Setup] 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 playback menu, press the **MENU** button.



Beep

This sets whether or not to mute the startup sound, and the camera sound each time you press the camera button.

ON: Sounds the beep tone.

OFF: Does not sound the beep tone.

Format

This function erases all images and reformats the SD card loaded in your camera. Protected images are also erased. SD card cannot be formatted if it is write-protected.

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

Fr. No. Reset

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

Cancel: Does not reset the file number.

Execute: Resets the file number and creates a new folder.

Card Info.

This allows a check of the free capacity of the SD card as well as other information.

System Info.

This displays the firmware version of the camera.

Language

This sets the language that is displayed on the LCD monitor.

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

English: English

Français: French

Deutsch: German

Español: Spanish

Italiano: Italian.

Русский : Russian

简体中文**:** Chinese (Simplified)

Video Output

This sets video output system of the video equipment that you are going to connect to the camera.

NTSC: NTSC system.

PAL: PAL system.

TRANSFERRING RECORDED IMAGES AND VIDEOS TO YOUR COMPUTER

To transfer images/video clips from the camera to your computer, follow these steps:

Step 1: Installing the USB driver (Windows 98 users only)
Step 2: Connecting the camera to your computer
Step 3: Downloading images and video files

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

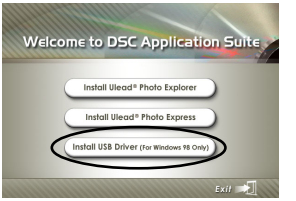
Windows 98, 98SE, Me, 2000 Professional, and XP Home and Professional editions.
Mac OS 9.0.-9.2.2 and Mac OS X 10.1.3.-10.1.5, 10.2.1.-10.2.8, 10.3.-10.3.5.

Step 1: Installing the USB Driver

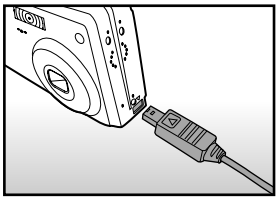
Windows 98 computers

The USB driver on the CD-ROM is exclusively for Windows 98 computers. Installing the USB driver on computers running Windows 2000/ME/XP is not necessary.

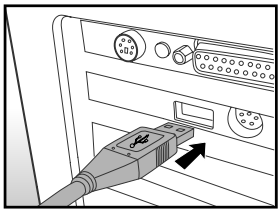
1. Insert the CD-ROM that came with the camera into your CD-ROM drive. The welcome screen appears.
2. Click "**Install USB Driver**". Follow the on-screen instructions to complete the installation. After the USB driver has been installed, restart your computer.



Step 2: Connecting the Camera to Your Computer



1. Connect one end of the USB cable to the conversion adapter terminal of the camera.
   - If you use the conversion adapter to connect the USB cable, insert the conversion adapter into the conversion adapter terminal of the camera first, and then connect one end of the USB cable to the USB terminal of the conversion adapter.



2. Connect the other end of the USB cable to an available USB port on your computer.
3. Turn on your camera.
4. From the Windows desktop, double click on "My Computer".
5. Look for a new "Removable disk" icon. This "Removable disk" is actually the memory card in your camera. Typically, the camera will be assigned drive letter "e" or higher.
6. Double click on the removable disk and locate the DCIM folder.
7. Double click on the DCIM folder to open it to find more folders.
   - Your recorded images and video clips will be inside these folders.
   - Copy & Paste or Drag-N-Drop image and video files to a folder on your computer.

Mac users: Double-click the "untitled" or "NO_NAME" disk drive icon on our desktop. iPhoto may automatically launch. The volume name varies between memory cards.

NOTE

- The data saved to the SD card may be damaged if the power to the camera is cut off during image transfer. We recommend that you use the AC power adapter when connecting the camera to the PC.

Step 3: Downloading Images and Video Files

When the camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from the “Removable disk” to your computer hard drive.

Windows

Open the “removable disk” and subsequent folders by double clicking on them. Your images are inside these folder(s). Select the images that you want, and then choose “Copy” from the “Edit” menu. Open the destination location (folder) and choose “Paste” from the “Edit” menu. You may also drag and drop image files from the camera to a desired location.

Macintosh

Open the “untitled” disk icon, and the destination location on your hard disk. Drag and drop from the camera to the desired destination.

NOTE

- Do not open the battery cover during USB cable connection.
- Memory card users may prefer to use a memory card reader (highly recommended).
- Video playback application is not included with the package. Make sure that video playback application has been installed in your computer.

INSTALLING PHOTO EXPLORER

Ulead® Photo Explorer provides a simple and efficient way to transfer, browse, modify and distribute digital media. Acquire photos, video or sound clips from various digital device types and easily browse or add personal descriptions; make timely modifications; or distribute the media through the medium of your choice: E-mail, Print, Slideshow Presentations. It is an indispensable all-in-one tool for owners of digital cameras, WebCams, DV camcorders, scanners, or anyone who strives to effectively organize a large collection of digital media.

1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click "**Install Ulead® Photo Explorer**". Follow the on-screen instructions to complete the installation.

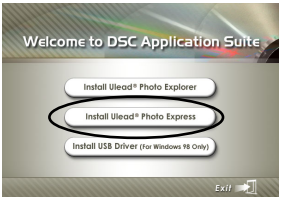
NOTE

- For more information about the operation of Photo Explorer application software, refer to its respective help documentation.
- For Windows 2000/XP users, please make sure to install and use the Photo Explorer in "Administrator" mode.
- Photo Explorer is not supported on the Mac. iPhoto or iPhoto2 is recommended.

INSTALLING PHOTO EXPRESS

Ulead® Photo Express is complete photo project software for digital images. The step-by-step workflow, visual program interface, and in-program help assist users in creating exciting photo projects. Acquire digital photos effortlessly from digital cameras or scanners. Organize them conveniently with the Visual Browse mode. Use hundreds of ready-to-use templates such as albums, cards, posters, slideshows, and more. Edit and enhance images with photo editing tools, photographic filters, and special effects. Embellish projects by adding creative design elements such as frames, callouts, and stamp objects. Share results with family and friends via e-mail and multiple print options.

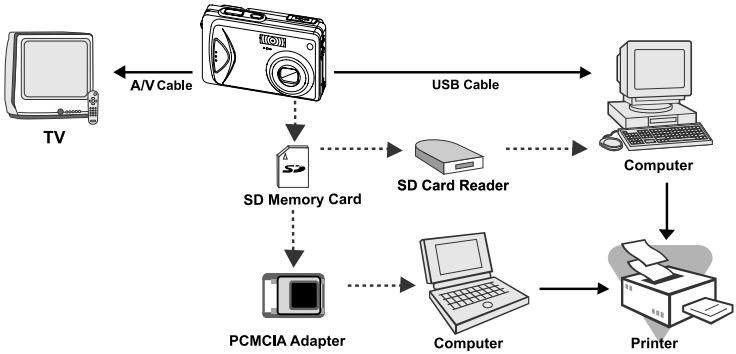
1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears,click "**Install Ulead® Photo Express**". Follow the on-screen instructions to complete the installation.



NOTE

- For information on how to use Photo Express to edit and retouch your recorded images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the Photo Express while logged in as a user with an Administrator account.
- Photo Express is not supported on the Mac.

CONNECTING THE CAMERA TO OTHER DEVICES



CAMERA SPECIFICATIONS

Item	Description
Image sensor	1/2.5" CCD sensor Total number of pixels: approx. 5.2 mega pixels Number of effective pixels: approx. 5.0 mega pixels
Image resolution	<Still image> 2560 x 1920, 2048 x 1536, 1280 x 960, 640 x 480 < Video clip> 640 x 480, 320 x 240
LCD monitor	2.5" LTPS TFT color LCD
Image quality	Fine / Standard / Economy
Recording media	External memory: Supports SD card (up to 512MB)
Compression format	JPEG compliant
Image file format	DCF 1.0, DPOF 1.1, EXIF 2.2, AVI
Lens	3x optical zoom lens F=2.8 - 4.8 f=5.4 mm - 16.2 mm (equivalent to 32 mm - 96 mm on a 35 mm camera)
Focus range	Approx. 50 cm to infinity (both Wide and Tele) Approx. 6 cm to infinity (Macro Wide) Approx. 35 cm to infinity (Macro Tele)
Auto-Focus	TTL method AF
Shutter speed	1/2 -1/1000 sec.
Image capturing	Single / 3 images with -0.67, 0, +0.67EV / 3 images continuously
Digital zoom	4x (Photography mode) 2x and 4x (Playback mode)
Metering system	Multi / Spot
Exposure compensation	-2EV - +2EV (in 0.3EV increments)
White balance	Auto / Incandescent / Fluorescent 1/ Fluorescent 2 / Daylight / Cloudy / Manual

Item	Description
Flash	Auto Flash / Red-eye Reduction / Night Scene / Suppressed Flash / Forced Flash
Flash effective range	0.5 m -2.7 m
ISO sensitivity	Equivalent to ISO 50/100/200/Auto
Self-timer	10 sec. / 2 sec. / 10+2 sec.
Video output	NTSC/PAL
Interface	DC IN 5V terminal (Via conversion adapter) A/V OUT terminal (Via conversion adapter) USB 2.0 (Full speed)
Power supply	Rechargeable Lithium-ion battery (3.7V) Battery Charger/AC Adapter (5V)
Dimension (WxHxD)	Approx. 88.5 x 54.5 x 24mm (without protruding parts)
Weight	Approx. 130 g (without the battery & SD card)

*Design and specifications are subject to change without notice.