

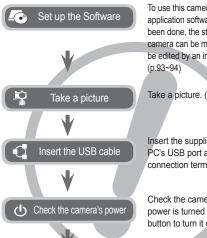
WB500

Thank you for buying a Samsung Camera. This manual will guide you through using the camera, including capturing images, downloading images and using the application software. Please read this manual carefully before using your new camera.



Instructions

Use this camera in the following order.



Check [Removable Disk]

To use this camera with a PC, install the application software first. After this has been done, the stored images in the namera can be moved to the PC and can be edited by an image editing program.

Take a picture. (p.20)

Insert the supplied USB cable into the PC's USB port and the camera's USB connection terminal. (p.95)

Check the camera's power. If the power is turned off, press the power button to turn it on.

Open Windows EXPLORER and search for [Removable Disk]. (p.96)

Getting to know your camera

Thank you for buying a Samsung Digital Camera.

- Prior to using this camera, please read the user manual thoroughly.
- If you require After Sales service, please bring the camera and the cause of the camera malfunction (such as battery, Memory card etc.) to the A/S
- Please check that the camera is operating properly prior to when you intend to use it (e.g. for a trip or an important event) to avoid disappointment. Samsung takes no responsibility for any loss or damage that may result from camera malfunction.
- Keep the manual in a safe place.
- The contents and illustrations in this manual are subject to change without prior notice for upgrading the camera functions.
- If you use a card reader to copy the images on the memory card to your PC, the images could be damaged. When transferring the images taken with the camera to your PC, be sure to use the supplied USB cable to connect the camera to your PC. Please note that the manufacturer accepts no responsibility for loss or damage of images on the memory card due to the use of a card reader.
- * Microsoft, Windows and Windows logo are registered trademarks of Microsoft Corporation incorporated in the United States and/or other countries.
- * Apple, Mac and QuickTime logo are registered trademarks of Apple computer.
- * Adobe and Reader are either trademarks or registered trademarks in the United States and/or other countries
- * All brand and product names appearing in this manual are registered trademarks of their respective companies.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

- Do not attempt to modify this camera in any way. This may result in fire, injury, electric shock or severe damage to you or your camera. Internal inspection, maintenance and repairs should be carried out by your dealer or Samsung Camera Service centre.
- Please do not use this product in close proximity to flammable or explosive gases, as this could increase the risk of explosion.
- Should any form of liguid or a foreign object enter the camera, do not use
 it. Switch off the camera, and then disconnect the power source. You must
 contact your dealer or Samsung Camera Service centre. Do not continue
 to use the camera as this may cause a fire or electric shock.
- Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. the memory card slot and battery chamber. This may cause a fire or electric shock.
- Do not operate this camera with wet hands. This could pose a risk of electric shock.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

- Do not use the flash in close proximity to people or animals. Positioning the flash too close to your subject's eyes may cause eyesight damage.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents e.g.:
 - Swallowing battery or small camera accessories. If an accident should occur, please consult a doctor immediately.
 - There is the possibility of injury from the camera's moving parts.
- Battery and camera may become hot during prolonged use and it may result in camera malfunction. Should this be the case, allow the camera to sit idle for a few minutes to allow it time to cool.
- Do not leave this camera in places subject to extremely high temperatures, such as a sealed vehicle, direct sunlight or other places of extremes in temperature. Exposure to extreme temperatures may adversely affect the camera's internal components and could cause a fire.
- When in use, do not cover the camera or Charger. This may cause heat to build up and distort the camera body or cause a fire. Always use the camera and its accessories in a well-ventilated area.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in a minor or moderate injury.

- Leaking, overheating, or burst battery could result in fire or injury.
- Use battery with the correct specification for the camera.
- Do not short circuit, heat or dispose of battery in fire.
- Do not insert the battery with the polarities reversed.
- Remove the battery when not planning to use the camera for a long period
 of time. Battery may leak corrosive electrolyte and permanently damage
 the camera's components.
- Do not fire the flash while it is in contact with hands or objects. Do not touch the flash after using it continuously. It may cause burns.
- Do not move the camera while it is switched on when you are using the Charger.
 After use, always switch off the camera before unplugging the cable from the wall
 socket. Then make sure that any connector cords or cables to other devices are
 disconnected before moving the camera. Failure to do so may damage the cords
 or cables and cause a fire or electric shock.
- Take care not to touch the lens or lens cover to avoid taking an unclear image and possibly causing camera malfunction.
- Avoid obstructing the lens or the flash when you capture an image.
- When using this camera in low temperatures, you may experience the following. These are not camera malfunctions and usually recover at normal temperature.
 - It takes longer to turn on the LCD monitor and the colour may differ from the subject.
 - When changing the composition, there may be an after image on the LCD monitor.
- Credit cards may be demagnetized if left near case. Avoid leaving magnetic strip cards near the case.
- It is highly likely to result in computer malfunctions when the 20 pin connector is connected to the USB port of a PC. Never connect the 20 pin connector to USB port of a PC.

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(Successive Recording)

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Package Contents

Please check that you have the correct contents before using this product. The contents can vary depending on the sales region. To buy the optional equipment, contact your nearest Samsung dealer or Samsung service centre. Parts and accessories illustrated below may differ from exact appearance.

Included Contents



Camera



User manual, Product warranty



Camera strap



Rechargeable battery



AC adapter / USB cable



Software CD (see p.91~92)

Sold Separately



SD/SDHC/MMC memory card (see p.17)



Remote control

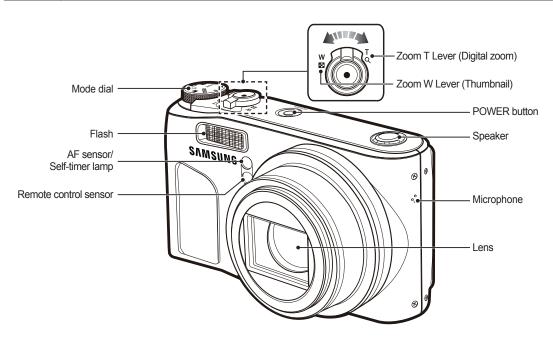


Camera case

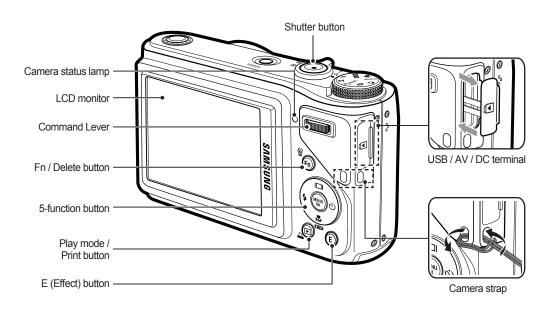


AV cable

Front & Top

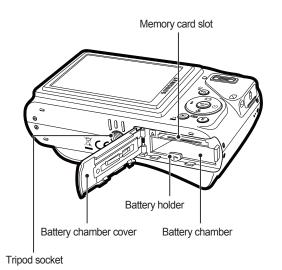


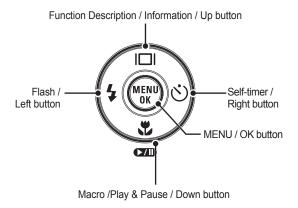
Back



Bottom

5 Function button





■ Self-timer lamp

Icon	Status	Description
৩	Blinking	For the first 7 seconds, the lamp blinks at 1 second intervals. For the final 3 seconds, the lamp blinks quickly at 0.25-second intervals.
ට ⁵⁵	Blinking	For the final 2 seconds, the lamp blinks quickly at 0.25-second intervals.
ర్రీ	Blinking	A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken.
(C))	Blinking	After pressing the Shutter button, the image is taken in accordance with the subject's movement.
ê	Blinking	Pressing the remote control Shutter button will allow an interval of 2 seconds before the image is taken.

■ Camera Status Lamp

Status	Description
Power on	The lamp turns on and off when the camera is ready to take a picture.
After taking a picture	The lamp blinks while saving the image data and turns off when the camera is ready to take another picture.
When the USB cable is inserted to a PC	The lamp lights up. (LCD monitor turns off after initializing the device)
Transmitting Data with a PC	The lamp blinks. (LCD monitor turns off)

When the USB cable is inserted to a printer	The lamp blinks and turns off when the printer is ready to print a picture.	
When the printer is printing	g The lamp is off.	
When the AF activates	The lamp turns on. (The camera is focused on the subject)	
Wileli tile Ar activates	The lamp blinks. (The camera doesn't focus on the subject)	

Mode icon: Refer to page 20 for more information about the camera mode setting.

	MODE			
	Auto	Program	Manual	DUAL IS
SHOOTING	6	C	M	DUAL))
mode	Beauty Shot	Nightscene	Scene	Movie
	(A)	•	SCENE	<u></u>
	Frame Guide	Portrait	Children	Landscape
		G	2	
	Close up	Text	Sunset	Dawn
SCENE		T		*
mode	Backlight	Firework	Beach&Snow	Self-Shot
	72		7	
	Food	Café		
	M	<u>"</u>		

Connecting to a power source

You should use the rechargeable battery SLB-10A supplied with the camera. Be sure to charge the battery before using the camera.

SLB-10A rechargeable battery Specification

Model	SLB-10A
Туре	Lithium Ion
Capacity	1050mAh
Voltage	3.7V
Charging time (When the camera is turned off)	Approx. 150MIN

Number of images and battery life: Using the SLB-10A

	Battery life /Number of images	Conditions
Still image	Approx. 135 MIN/ Approx. 270 shots	Using the fully charged battery, Auto mode, 10M image size, Fine image quality, Shot to shot interval: 30sec. Changing the zoom position between the Wide and the Tele after every shot. Using the flash on every second shot. Using the camera for 5 minutes and then Powering it off for 1 minute.

	Recording time	Conditions
Movie	Approx. 125 MIN	Using the fully charged battery 640x480 image size 30fps frame rate.

- * These figures are measured under Samsung's standard conditions and shooting conditions and may vary depending on the user's methods.
- * These figures are measured under OIS shooting condition.
- * Several videos were recorded in succession to determine the total recording time.



Important information about battery usage.

- When the camera is not used, turn off the camera power.
- Please remove the battery if the camera will not be used for long periods. Batteries can lose power over time and are prone to leaking if kept inside the camera.
- Low temperatures (below 0°C) can affect the performance of the battery and you may experience reduced battery life.
- Batteries will usually recover at normal temperatures.
- During extended use of the camera, the camera body may become warm. This is perfectly normal.

Connecting to a power source

Connecting the AC adapter with the USB cable can be used as an AC cable, and you can charge the rechargeable battery with the AC cable.

 Using an AC cable: Connect the AC adapter to the USB cable.
 It can be used as a power cable.



 Using a USB cable: Remove the AC adapter. You can download stored images to your PC (p.95) or supply the power to your camera through the USB cable.





Important information about USB cable usage.

- Use a USB cable with the correct specification.
- If the camera is connected to the PC through a USB hub: connect the camera directly to the PC.
- If the camera and other devices are connected to the PC at the same time: remove other device.
- Camera can not be detected using the front side USB port of computer. In this case, use the back side USB port of computer.
- If the USB port of the PC doesn't meet the Power output standard (5V, 500mA), the camera may not be charged.

Connecting to a power source

How to charge the rechargeable battery





- Before inserting any cables or AC adapter, check the directions and do not insert using force. It may cause breakage of cable or camera.
- If the charging LED of the AC Charger does not turn on or blink after inserting the rechargeable battery, please check whether the battery is inserted correctly.
- If you charge the battery with the camera power on, the battery can't charge fully. Turn the camera off while charging the battery.

■ Charging LED of the AC Adapter

	Charging LED
Being Charged	Red LED is on
Charging is complete	Green LED is on
Charging error	Red LED is off or blinking
Being discharged (Using the AC adapter)	Orange coloured LED is on

- If you insert the fully discharged battery to charge it, do not turn on the camera at the same time. This is because of the low battery capacity.
 Charge the battery for more than 10 minutes before using the camera.
- Do not use the flash frequently or take a movie clip with the fully discharged battery charged for a short time. Even if the charger is inserted, the camera power may be turned off because the rechargeable battery is discharged again.

Inserting the battery

Insert the battery as shown.

- If the camera does not turn on after you have inserted battery, please check whether the battery is inserted with the correct polarity (+/-).
- When the battery chamber cover is opened, do not force it. This may cause damage to the battery chamber cover.



There are 4 indicators for battery condition that are displayed on the LCD monitor.

Battery indicator	(III	•		
Battery status	The battery is fully charged	Low battery capacity (Prepare to recharge or use spare battery)	Low battery capacity (Prepare to recharge or use spare battery)	Battery empty. Recharge or use spare battery.

Inserting the memory card

Insert the memory card as shown.

- Turn off the camera's power before inserting the memory card.
- Have the front label of the memory card facing toward the front of the camera (Lens) and the card pins toward the back of the camera (LCD monitor).



- Do not insert the memory card the wrong way round.
 - Doing so may damage the memory card slot.

Instructions on how to use the memory card

- Be sure to format the memory card (see p.83) if you are using a newly purchased memory card for the first time, if it contains data that the camera cannot recognise, or if it contains images captured with a different camera.
- Turn off the camera power whenever the memory card is being inserted or removed.
- Repeated use of the memory card will eventually reduce the memory card's performance. Should this be the case, you will need to purchase a new memory card. Wear and tear on the memory card is not covered by the Samsung warranty.
- The memory card is an electronic precision device. Do not bend, drop or subject the memory card to any heavy impact.
- Do not store the memory card in an environment with strong electronic or magnetic fields, e.g. near loud speakers or TV receivers.
- Please do not use or store in an environment where there are extremes in temperature.
- Do not allow the memory card to become dirty or to come into contact with any liquid. Should this happen, clean the memory card with a soft cloth.
- Please keep the memory card in its case when not in use.
- During and after periods of extended use, you may notice that the memory card is warm. This is perfectly normal.
- Do not use a memory card that is used in another digital camera. To
 use the memory card in this camera, format the memory card using this
 camera.
- Do not use a memory card formatted by another digital camera or memory card reader.

- If the memory card is subjected to any of the following, the recorded data may become corrupted:
 - When the memory card is used incorrectly.
 - If the power is switched off or the memory card is removed while recording, deleting (formatting) or reading.
- Samsung cannot be held responsible for lost data.
- It is advisable to copy important data onto other media as back-up e.g. floppy disks, hard disks, CD etc.
- If there is insufficient memory available:

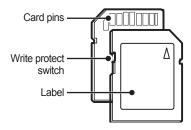
A [Memory Full!] message will appear and the camera will not operate. To optimise the amount of memory in the camera, replace the memory card or delete unnecessary images stored on the memory card.



 Don't remove the memory card when the camera status lamp is blinking as this may cause damage to data in the memory card.

Instructions on how to use the memory card

The camera can use SD/ SDHC Memory Cards and MMC (Multi Media Cards).



<SD (Secure Digital) memory card>

The SD/ SDHC memory card has a write protect switch that prevents image files from being deleted or formatted. By sliding the switch to the bottom of the SD memory card, the data will be protected. By sliding the switch to the top of the SD memory card, the data protection will be cancelled.

Slide the switch to the top of the SD memory card before taking a picture.

When using a 1GB SD memory, the specified shooting capacity will be as follows. These figures are approximate as image capacities can be affected by variables such as subject matter and memory card type.

	Reco image		Super Fine	Fine	Normal	60FPS	30FPS	15FPS
	Still image	Юм	183	334	472	-	-	-
		49⋒	200	362	511	-	-	-
		7м	252	442	613	-	-	-
		7 _M	252	445	619	-	-	-
		5м	334	578	793	-	-	-
		3м	495	814	1067	-	-	-
		[M	1238	1673	1876	-	-	-
	* Movie clip	1280 HQ	-	-	-	-	about 8'28"	about 16'46"
		1280	-	-	-	-	about 10'30"	about 21'08"
		640	-	-	-	-	about 30'24"	about 60'
		320	-	-	-	about 65'42"	about 122'32"	about 213'48"

^{*} The recording times can be changed by the zoom operation. The Zoom W/T lever doesn't function during the movie recording.

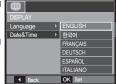
^{*} Several videos were recorded in succession to determine the total recording time.

When using the camera for the first time

- Charge the rechargeable battery fully before using the camera for the first time.
- When the camera is turned on for the first time, a menu will be displayed
 in the LCD monitor to set date, time and language. This menu will not be
 displayed again after setting up the date, time and language.
 Set up the date, time and language before using this camera.

Setting up the language

- Select the [Language] menu by pressing the **Up/Down** button and press the **Right** button.
- Select the desired language by pressing the Up/Down button and press the OK button.



Setting up the date, time and date type

- Select the [Date&Time] menu by pressing the Up/Down button and press the Right button.
- Select the desired sub menu by pressing the Up/Down/Left/Right button and press the OK button.



Right button: Selects world time/year/ month/ day/hour/minute/

date type.

Left button: Moves the cursor to the [Date&Time] main menu

if the cursor is at the first item of the date and time setup. In all other instances, the cursor will be

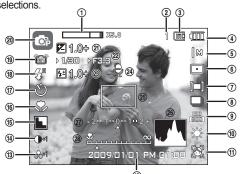
shifted to the left of its current position.

Up/Down button: Changes the value of each item.

* For more information about the World Time, refer to the page 82.

LCD monitor indicator

The LCD monitor displays information about the shooting functions and selections.



<mage & Full Status>

No.	Description	Icons	Page
1	Optical/Digital Zoom bar/ Digital Zoom rate	x 5.0	p.28~29
2	Number of available shots remaining/Remaining time	1/00:00:00	p.17
3	Memory card icon/ Internal memory icon	□; / Im:	-
4	Battery	@@@@	p.15
5	Image Size	10M ⁶⁹ M 7M 7M 5M 3M M 1280 1280 640 320	p.40
6	Auto Focus area/Frame Rate	■ ■ / £ 3 5	p.40/p.41
7	Metering/Stabiliser	[=][·][ê]/器是	p.41/p.47
8	Drive mode		p.42

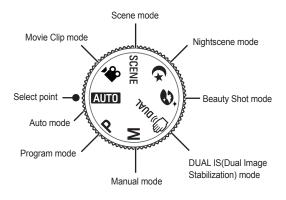
No.	Description	Icons	Page
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10	White Balance	■☀●●喇点□	p.43~44
11	Face Detection · Self Portrait · Blink Detection · Smile Shot	[8] [8] E 😝 [8]	p.45~46
12	Date/Time	2009/01/01 PM 01:00	p.82
13	Saturation/Colour	-2 -2 -1 -3-+1 -3-+2 / 	p.49/p.48
14	Contrast/Face Retouch	①-2 ①-1 ①+1 ①+2 / · ᠭ ᢩ	p.49/p.22
15	Sharpness/Photo Style Selector/Face Tone	NN N N /5 /F /R /co/ch/cl/'Cl''Cl''	p.49/p.48/ p.22
16	Macro	∜ # MF	p.32~33
17	Self-timer	<u>ల</u> ల్లం(ల) ్	p.36~38
18	Flash	4° ● 4 45 ③ &	p.34~35
19	OIS (Optical Image Stabilization)		p.53
20	Recording mode	6 6 M ## (7 D E1 0 2 A 7 T = 1 4 8 7 E 0 E	p.11
21	Exposure value	≥1.0+	p.30
22	Aperture Value/Shutter Speed	► 1/30 ► F3.3	p.44
23	Compensating Flash Output	달1.0-달0.5-달0.5+달1.0+	p.51
24	Voice Memo/Mic. off	₽/®	p.53/p.25
25	Auto Focus Frame		p.40
26	Histogram	<u></u>	p.31
27	Exposure compensation/ Camera shake Warning	-21012+/	p.30/p.26
28	Manual Focus	*	p.32

Selecting modes

You can select the shooting modes by using the mode dial on the upper of your camera.

How to use the mode dial

Select the shooting mode by turning the mode dial to the selection point.



How to use the Auto mode

Select this mode for quick and easy picture taking with minimal user interaction.

- **1.** Insert the battery (p.15) taking note of the correct polarity (+/-).
- 2. Insert the memory card (p.15). As this camera has a 30 MB internal memory, it is not essential to insert the memory card. If the memory card is not inserted, an image will be stored in the internal memory. If the memory card is inserted, an image will be stored on the memory card.



- 3. Close the battery chamber cover.
- 4. Press the POWER button to turn on the camera. (If the date/time that is displayed on the LCD monitor is incorrect, reset the date/time before taking a picture.)
- 5. Select the Auto mode by using the mode dial.
- 6. Point the camera towards the subject and compose the image.
- 7. Press the **Shutter** button to capture an image.



- If the auto focus frame turns to red when you press the Shutter button down half way, it means that the camera cannot focus on the subject. Should this be the case, the camera is less likely to capture an image clearly.
- Avoid obstructing the lens or the flash when you capture an image.

How to use the Program mode

Selecting the automatic mode will configure the camera with optimal settings and you can manually configure various functions.

- 1. Select the Program mode by using the Mode dial. (p.20)
- Point the camera towards the subject and compose the image by using the LCD monitor.
- **3.** Press the **Shutter** button to capture an image.
- Refer to page 39-46 for more information about the Program mode menus.



How to use the Manual mode

The user can manually set both the aperture value and the shutter speed.

- 1. Select the Manual mode by using the **Mode dial**. (p.20)
- Point the camera towards the subject and compose the image by using the LCD monitor.
- Press the Shutter button to capture an image.
- * Refer to page 44 for more information about the menus.



How to use the DUAL IS(Dual Image Stabilization) mode

This mode will reduce the effect of camera shake and help you get a well exposed image in dim conditions.

- Select the DUAL IS mode by using the Mode dial. (p.20)
- Point the camera towards the subject and compose the image by using the LCD monitor.
- Press the Shutter button to capture an image.



- Things to watch out for using the DUAL IS mode
 - The digital zoom will not operate in the DUAL IS mode.
 - If the lighting conditions are brighter than fluorescent lighting conditions, the DUAL IS will not activate.
 - If the lighting conditions are darker than in fluorescent lighting conditions, camera shake warning indicator (**) will be displayed.
 For best results only take pictures in situations where the camera shake warning indicator (**) is not displayed.
 - If the subject is moving, the captured image may be blurred.
 - As the DUAL IS uses the camera's digital signal processor, it may take a little longer for the camera to process and save the images.

How to use the Beauty Shot mode

Take a photo of portraits by setting options to clear facial imperfections.

- 1. Select the Beauty Shot mode by using the **Mode dial**. (p.20)
- Point the camera towards the subject and compose the image by using the LCD monitor.
- 3. Press the MENU button.
- Press the Up/Down button to select [Face Tone] or [Face Retouch].
- Press the Right button, then press the Up/Down button to select a desired level of each function.
 The higher the level is, [Face Tone] becomes brighter and [Face Retouch] features better performance.
- Press the **OK** button to finish your setting.
- Capture images in Recording mode by pressing the **Shutter** button.





How to use the Nightscene modes

Select this mode at night or in low light conditions.

- 1. Select the Nightscene mode by using the **Mode dial**. (p.20)
- Point the camera towards the subject and compose the image by using the LCD monitor.
- **3.** Press the **Shutter** button to capture an image.



How to use the Scene modes

Use the menu to easily configure optimal settings for a variety of shooting situations. (p. 55)

- Select the Scene mode by using the Mode dial. (p.20)
- Point the camera towards the subject and compose the image by using the LCD monitor.
- **3.** Press the **Shutter** button to capture an image.



■ The scene modes are listed below. (p.55)

Icons	Scene modes	Description
Ð	Frame Guide	Use this mode when you want someone else to take a picture for you from the angle you choose.
0	Portrait	Selecting the portrait mode will configure the camera with optimal settings for portrait photography.
2	Children	To take a picture of fast moving objects, for example, children.
	Landscape	To take pictures of distant scenery.
	Close up	Close-up shooting for small objects such as plants and insects.
T	Text	Use this mode to shoot a document.
	Sunset	For taking pictures of sunsets.
*	Dawn	Daybreak scenes.
2	Backlight	Portrait without shadows caused by backlight.
	Firework	Firework scenes.
2	Beach&Snow	For ocean, lake, beach and snowscape scenes.
4	Self-Shot	Use when the photographer would also like to appear in the image.
P	Food	For taking delicious looking food.
	Café	For taking pictures in cafes and restaurants.

■ How to use the [Frame Guide] mode

Set [Frame Guide] mode when you want someone else to take a picture for you from the angle you choose.

- **1.** Take a picture from the angle you choose.
 - A translucent guide appears round the sides of the picture.



Then another person can take the picture by aligning the edge of the picture to be taken with the translucent guide framing the sides of the window.





How to use the Movie clip mode

A movie clip can be recorded for as long as the available recording time(maximum of 29 minutes) of the memory capacity allows.

- 1. Select the Movie clip mode by using the **Mode dial**. (p.20)
- Point the camera towards the subject and compose the image by using the LCD monitor.
- Press the **Shutter** button once and movie clips are recorded for up to 29 minutes.
 Movie clips will still be recorded if the **Shutter** button is released.

If you wish to stop recording, press the Shutter button again.

- * Image size and type are listed below.
 - Image size: 1280X720HQ, 1280X720, 640x480, 320x240 (1280X720HQ and 1280X720 are the settings for recording high-quality videos.)
 - Movie clip file type: H.264(MPEG4.AVC)
 - Frame Rate: 60FPS, 30FPS, 15FPS
 - The frame rate can be selected when the following image size is selected.

1280X720HQ, 1280X720, 640x480: 30FPS, 15FPS selectable. 320x240: 60FPS, 30FPS 15FPS selectable.



- If the recording time is takes longer 29 minutes, the recording is stopped and then saved.
- Select [Zoom Mute] from the recording menu during video recording to disable the recording of zoom sound.

Recording HD (High Definition) movie clips

You can record HD (High Definition) movie clips. (1280X720, 30 fps) H.264(MPEG4.AVC) is a standard for the digital video codec. It supports a high quality movie clip in a small file size.

- 1. Select the Movie clip mode by using the Mode dial. (p.20)
- 2. Press the Fn button to set the resolution to either [1280HQ] or [1280].
- Press the Shutter button to record video for the available recording time.





• What is H.264(MPEG4 part10/AVC) ?

With its high-compression rate and the small file size, it is a standard for the digital video codec. It supports the recording functions in a high resolution.

Recording the movie clip without sound

You can record the movie clip without sound.

Steps from **1-3** are the same as those for Movie clip mode.

- 4. Press the MENU button.
- **5.** Select the [RECORDING] menu by pressing the **Left/Right** button.
- Press the Down button to select the [Voice] menu and press the Right button.
- 7. Select the [Off] menu by pressing the **Up/Down** button.
- Press the **OK** button. You can record a movie without sound.





Pausing while recording a movie clip (Successive Recording)

This camera allows you to temporarily stop during unwanted scenes, while recording a movie clip. Using this function, you can record your favourite scenes into a movie clip without having to create multiple movie clips.

Using Successive Recording

Steps from **1-2** are the same as those for Movie clip mode.

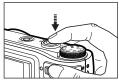
3. Point the camera towards the subject and compose the image by using the LCD monitor. Press the Shutter button and movie clips are recorded for as long as the available recording time. Movie clips will still be recorded if the Shutter button is released.

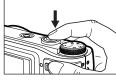


- 4. Press the Play & Pause () button to pause recording.
- 5. Press the Play & Pause () button again to resume the recording.
- 6. If you wish to stop recording, press the Shutter button again.

Things to watch out for when taking pictures

Pressing the Shutter button down half way.
 Lightly press the Shutter button to confirm focus and flash battery charge.
 Press the Shutter button all way down to take the picture.





<Lightly press the Shutter button>

Press the **Shutter** button down all the way>

- The available memory capacity may vary depending on shooting conditions and camera settings.
- When the Flash Off or Slow synchro mode is selected in a low lighting condition, the camera shake warning indicator (*) may appear on the LCD monitor. In this case, use a tripod, support the camera on a solid surface or change to flash shot mode.
- It is best to take pictures with the sun in the background. Taking pictures
 against the sun may make the picture come out dark. To take a picture
 against the light, please use the [Backlight] in scene shooting mode (see
 page 23), fill-in flash (see page 35), spot metering (see page 41), exposure
 compensation (see page 30) or ACB (see page 52) function.

- Avoid obstructing the lens or the flash when you capture an image.
- Compose the image by using the LCD monitor.
- Under certain conditions the auto focus system may not perform as expected.
 - When photographing a subject that has little contrast.
 - If the subject is highly reflective or shiny.
 - If the subject is moving at high speed.
 - When there is strong reflected light, or when the background is very bright.
 - When the subject matter has only horizontal lines or the subject is very narrow (such as a stick or flagpole).
 - When the surroundings are dark.

Focus lock

To focus on a subject not positioned in the centre of the picture, use the focus lock function.

■ Using the Focus Lock

- 1. Ensure the subject is in the centre of the autofocus frame.
- Press the Shutter button halfway. When the green auto focus frame lights up, it means the camera is focused on the subject. Be careful not to press the Shutter button all the way down to avoid taking an unwanted picture.
- 3. With the Shutter button still pressed down only halfway, move the camera to recompose your picture as desired, and then press the Shutter button completely to take the picture. If you release your finger from the Shutter button, the focus lock function will be cancelled.



The image to be captured.



Press the **Shutter** button halfway and focus on the subject.



 Recompose the picture and fully depress the **Shutter** button.

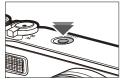
Using the camera buttons to set the camera

The recording mode function can be set up by using the camera buttons

POWER button

Used for turning the camera's power on/off. If there is no operation during the specified time, the camera's power will be turned off automatically to save battery life.

Refer to page 86 for more information about the auto power off function.

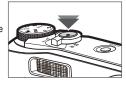


Shutter button

Used for taking an image or recording voice in the Recording mode.

In Movie clip mode

Pressing the Shutter button down fully starts the process for recording a movie clip. Press the Shutter button once and the movie clip is recorded for as long as the available recording time in the memory allows. If you wish to stop recording, press the Shutter button again.



In Still image mode

Pressing the Shutter button down halfway activates the autofocus and checks the condition of the flash

Pressing the **Shutter** button down fully takes and stores the image. If you select voice memo recording, the recording will start after the camera has finished storing the image data.

Zoom W/T Lever

When the menu window is not displayed, this lever is used to control the optical or digital zoom. This camera has a 10X optical zoom and a 5X digital zoom function. Using both will offer a total zoom ratio of 50X.



■ TELE Zoom

Optical zoom TELE: Move the **Zoom W/T** lever to the right to see the subject closer.

Digital zoom TELE:



Move the **Zoom W/T** lever to the right once again in optical 10x zoom mode to enable digital zoom (software tele). Stop moving the **Zoom W/T** lever to stop the operation of digital zoom (tele). In digital 5x zoom mode, digital zoom is disabled even if you operate the Zoom W/T lever.



<Digital zoom 5.0X>

Zoom W/T Lever

■ WIDE Zoom

Optical zoom WIDE:

Move the **Zoom W/T** lever to the left in optical zoom mode to see subjects in the distance. Continue to move the **Zoom W/T** lever to the left to disable optical zoom.



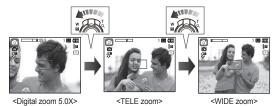
Digital zoom WIDE:

Optical zoom

X 5.0

Digital zoom

Move the **Zoom W/T** lever to the left in digital zoom mode to enable digital zoom (software wide). Stop moving the **Zoom W/T** lever to stop the operation of digital zoom. Continue to move the **Zoom W/T** lever to the left when digital zoom is disabled to disable optical zoom (optical tele).





- Images taken using the digital zoom may take a little longer for the camera to process. Allow time for this to take place.
- You may notice a decrease in image quality when using the digital zoom.
- To view a clearer digital zoom image, press the Shutter button halfway at the maximum optical zoom position and press the Zoom T button again.
- The digital zoom can't be activated in the [Face Detection], [DUAL IS], [Movie], [Nightscene] mode and some scene modes ([Frame Guide], [Portrait], [Children], [Text], [Close-up], [Firework], [Self-Shot]).
- Take care not to press the lens as this may cause a camera malfunction.
- The digital zoom cannot be used in movie clip shots.
- Select [Zoom Mute] from the recording menu during video recording to disable the recording of zoom sound.

Command Lever

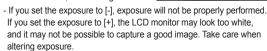
How to use the Command lever mode

■ Exposure compensation

This product automatically controls exposure, adjusting it according to the recording situation. However, use the **command lever** to change the exposure to a different value.



- Select [EV] under [Command Lever] in the menu
- Press the command lever to the left or right from the menu to set the desired exposure value.
- For detailed information on setting the command lever, refer to Page 51.





 In [Manual] mode, you cannot control exposure by using the command lever.

■ Controlling ISO/White Balance

You can enable the desired features for the command lever.

- 1. Select [ISO] or [WB] under [Command Lever] in the menu. (p.51)
- Press the command lever to the left or right to select the submenu for each feature from the recording mode window.
- * For detailed information on setting [ISO] and [WB], refer to Page 43.



<Example: [ISO] Control Window>



- [Command Lever] can be set in [Program], [Manual], [DUAL IS], or [Movie] mode and [ISO] can be set in [Program] or [Manual] mode.
- If you want to set [EV] after setting [ISO] or [WB], press the Fn button to switch to the exposure control window. Once [EV] are set, the exposure control icon will appear on the window.

■ Controlling the Aperture Value and Shutter Speed in [Manual] Mode

Press the **command lever** to the left or right from the [Manual] mode to control the aperture value and shutter speed.

× For detailed information on the aperture value and shutter speed, refer to Page 44.

■ Moving to Another Menu

Press the **command lever** to the left or right from the menu window to move to another main menu.

Function Description / Info () / Up button



<Filming screen>



<Histogram/Grid Window>



<Information screen>



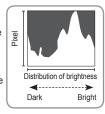
<Function description screen>



 Histogram is not displayed when operating the [Face Detection] function. ■ Histogram/Grid Window (🚳 M 🔛)

Histogram

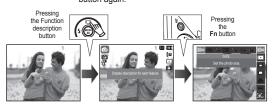
Histogram shows you the distribution of brightness in recorded images. If the bars in the histogram are higher towards the right, the image may be too bright. If the bars are higher on the left, the image may be too dark. If the lighting conditions are too bright to check the subject by using the LCD, checking the histogram will enable more precise exposure control for the shots.



Grid

If you focus on the subject using a variety of horizontal or vertical grids, you will be able to take pictures at better angles, checking size, horizontality, or proportions. For information on types of grid and how to set them, refer to Page 81.

■ Function description: When pressing the Function description button on the information screen mode, detailed descriptions of the functions can be viewed. The function description can be cancelled by pressing the Function description button again.



<Examples of Function descriptions>

Macro (Down button

While the menu is showing, press the **Down** button to move from the main menu to a sub menu, or to move down the sub menu. When the menu is not showing, you can use the **Macro(*)/Down** button to take macro pictures. The distance ranges are shown below. Press the **Macro** button until the desired macro mode indicator appears on the LCD monitor.



<Normal Focus>



<Auto Macro (♣)>



<Macro (🗫)>



<Manual Focus (MF)>

■ How to Set Focus Manually

If it is difficult to get the automatic focus to work (for example in low light), you can manually control the focus.

- Press the Macro button to enable manual focus.
 - Then the control bar for manual focus will appear.





Control Bar for Manual Focus

Set the manual focus to expand the center of the window to the entire window. Press the **Shutter** button halfway to return to the original state.



 Note that the picture may be blurred if manual focusing is not performed properly.

Macro (Down button

■ Types of focus mode and focus range (W: Wide, T: Tele)

(Unit: cm)

Mode	Auto ()				
Focus Type	Auto macro (#)		Normal		
Focus range	W: 5 ~ Infinity T: 100 ~ Infinity		W: 50 ~ Infinity T: 200 ~ Infinity		
Mode	Prog	gram / Ma	nual (🚳 M)		
Focus Type	Macro (🗫)	Manual fo		Normal	
Focus range	W: 5 ~ 50 T: 100 ~ 200	W: 5 ~ Infinity T: 100 ~ Infinity		W: 50 ~ Infinity T: 200 ~ Infinity	
Mode		DUAL I	s()		
Focus Type	Auto macro (🕏)		Normal		
Focus range	W: 5 ~ Infinity T: 100 ~ Infinity		W: 50 ~ Infinity T: 200 ~ Infinity		



- When the macro mode is selected, be particularly careful to avoid camera shake.
- When you take a picture within 50cm (Wide zoom) or 100cm (Tele zoom) in the Macro mode, select the FLASH OFF mode.
- When you take a picture within the 5cm macro range, the autofocus on the camera will take longer to set the correct focus distance.

■ Available focusing method, by Recording mode

(●: Selectable, ∞: Infinity focus range)

Mode	Auto macro	Manual focus	Macro	Normal
6	•			•
6		•	•	•
M		•	•	•
*** ()	•			•
0				•
•				•
			•	•
Mode		SCE		
Wode	Auto macro	Manual focus	Macro	Normal
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9				•
<u>@</u>				•
				•
T	•			
			•	
				•
*				•
*2				•
				∞
7				•
	•			
P			•	
<u>"</u>				•

Flash (\$) / Left button

When the menu is displayed on the LCD monitor, pressing the **Left** button makes the cursor shift to the left tab.

When the menu is not displayed on the LCD monitor, the Flash(\$)/Left button operates as the Flash(\$) button.

Selecting the flash mode

- Select a desired Recording mode, except the [Movie] mode and the [DUAL IS] mode. (p.20)
- Press the Flash button until the desired flash mode indicator is displayed on the LCD monitor.
- A flash mode indicator will be displayed on the LCD monitor. Use the correct flash to suit the environment.

Flash range

(Unit: m)

	WIDE	TELE	ISO
Normal	0.5 ~ 4.7	2.0 ~ 2.7	AUTO
Macro	0.3 ~ 0.5	1.0 ~ 2.0	
Manual focus	0.3 ~ 4.7	1.0 ~ 2.7	AUTO
Auto macro	0.3 ~ 4.7	1.0 ~ 2.7	



- If you press the Shutter button after selecting the flash, the first flash fires to check the shooting condition (Flash range and Power ratio of flash). Do not move the camera until the second flash fires.
- Using the flash frequently will reduce the life of the battery.
- Under normal operating conditions the re-charging time for the flash is usually within 5 seconds. If the battery is weak, the charging time will be longer.
- In the [DUAL IS] mode, [Landscape], [Text], [Close up], [Sunset], [Dawn], [Firework], [Self-Shot], [Food], [Café] scene modes and the Movie clip mode, the flash function will not operate.
- Take photographs within the flash range.
- The image quality is not guaranteed if the subject is too close or highly reflective.
- When taking an image in poorly lit conditions with the flash, there may be a white speck in the captured image. The speck is caused by the flash light reflecting off atmospheric dust.

Flash (\$) / Left button

■ Flash mode indicator

Icon	Flash mode	Description
\$ ⁸	Auto flash	If the subject or background is dark, the camera flash will operate automatically.
•	Auto & Red-eye reduction	If a subject or background is dark, the camera flash will work automatically and will reduce the red-eye effect by using the red-eye reduction function.
4	Fill in flash	The flash fires regardless of the available light. The intensity of the flash will be automatically controlled to suit the prevailing conditions.
\$ 5	Slow synchro	The flash operates with a slow shutter speed to obtain a balanced correct exposure. In poor lighting conditions the camera shake warning indicator (**) will appear on the LCD monitor.
③	Flash off	The flash does not fire. Select this mode when capturing images in a place or situation where flash photography is prohibited. When you capture an image in poorly lit conditions, the camera shake warning indicator (**) will appear on the LCD monitor.
E	Red-eye reduction	When a shot with "Red-eye" is detected, this mode will reduce the red-eye effect automatically.

■ Available flash mode, by Recording mode

(•: Selectable)

	4 ⁸	•	4	4 5	3	₫
	•	•			•	•
(a)	•	•	•	•	•	•
M			•		•	
(LINE)					•	
0		•			•	•
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Self-timer (৩) / Right button

When the menu is displayed on the LCD monitor, pressing the Self-timer (\circlearrowleft) / Right button makes the cursor shift to the right tab. When the menu is not displayed on the LCD monitor, the Self-timer (\circlearrowleft) / Right button operates as the Self-timer (\circlearrowleft) button. This function is used when the photographer would also like to be in the image.



- If you operate the Self-timer(**) button during the self-timer operation, the self-timer function is cancelled.
- Use a tripod to prevent the camera from shaking.
- In Movie Clip mode, only the 10SEC self-timer will work.
- When you select 2SEC self-timer with flash, the delay (2 seconds) can be extended according to the flash charging status.
- When taking a picture using the self-timer, the self-timer lamp works as follows:

10SEC self-timer	 For the first 7 seconds, the lamp blinks at 1 second intervals. For the final 3 seconds, the lamp blinks quickly at 0.25-second intervals.
2SEC self-timer	For the final 2 seconds, the lamp blinks quickly at 0.25-second intervals.

Selecting the self-timer

- Select a Recording mode with the exception of Voice recording mode. (p.20)
- 2. Press the **Self-timer** (5) button until the desired mode indicator displays on the LCD monitor.
- When you press the Shutter button, the picture will be taken after the specified time has elapsed.



<Selecting the 10 SEC self-timer>

lcon	Self-timer Mode	Description				
Ů	10SEC self-timer	Pressing the Shutter button will allow an interval of 10 seconds before the image is taken.				
\mathcal{O}_{s2}	2SEC self-timer	Pressing the Shutter button will allow an interval of 2 seconds before the image is taken.				
ర్రీ	Double self-timer	A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken.				
((ර))	Motion Timer	The camera detects the subject's movement 6 seconds after pressing the Shutter button, and the picture is taken when the movement is stopped.				
ê	Remote	You can take a picture by remote control instead of using the shutter button of the camera. Remote control mode is maintained after recording. Press the power button to release the setting.				

Self-timer (৩) / Right button

Motion Timer

Motion	Icon & Self-timer lamp
Pressing the Shutter button after setting the Motion Timer	Blink (1 second interval)
Detecting the subject's movement	Blink (0.25 second interval)
No movement is detected	Turn on and the image is taken after 2 seconds.

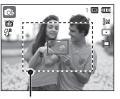
The Motion Timer flows are as follows. (with the exception of [Movie] and [Frame Guide] modes)

Selecting the Motion Timer \dashv Pressing the Shutter button \dashv Confirming the composition (Within 6 sec.)*¹ \dashv Starting the detection (Swing your hands fully)*² \dashv Stopping the detection (Do not move) \dashv Taking an image (after 2 sec.)



In the following cases, the Motion Timer may not operate.

- The focus distance is over 3m.
- The exposure is too bright or dark.
- In backlight conditions.
- The movement is insignificant.
- The movement is detected beyond the center part (50%) of the sensor where the movement is recognized.
- If the camera does not detect any movement for 25 seconds or the camera does not detect the pause after recognizing the movement.



<The detection range of Motion Timer>

^{*1:} The camera detects the subject's movement 6 seconds after pressing the Shutter button, so confirm the composition within 6 seconds.

^{*2:} Move your body or hands fully.

Self-timer (৩) / Right button

Remote control range

When you take a picture by using the remote control, refer to the illustrations shown alongside about the remote control range.

[Shutter button on the remote control]

Replacing battery for the remote control

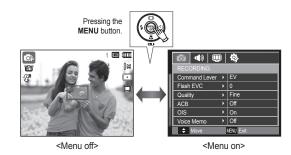
Make sure the + (positive) polarity is toward the top and the - (negative) polarity is toward the bottom while installing battery for the remote control. Replace battery for the remote control in the local service centre. Use the CR 2025 3V battery.



MENU / OK button

■ MENU button

- When you press the MENU button, a menu related to each camera mode will be displayed on the LCD monitor. Pressing it again will return the LCD to the initial display.
- A menu window is displayed in each of [Movie], [Auto], [Program],
 [Manual], [DUAL IS], [Beauty Shot], [Nightscene], and [Scene] modes.



OK button

 When the menu is displayed on the LCD monitor, this button is used for shifting the cursor to the sub menu or for confirming data.

Fn button

You can use the **Fn** button to set the following menus.

(: Selectable)

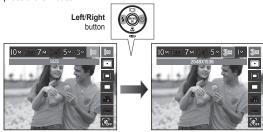
	0	(C)	M	DUAL)	G	1	SCENE		Page
SIZE	•	•	•	•	•	•	•	•	p.40
FOCUS AREA	•	•	•	•	•	•	•		p.40
FRAME RATE								•	p.41
METERING		•	•	•				•	p.41
DRIVE		•	•						p.42
ISO		•	•						p.43
WHITE BALANCE		•	•	•				•	p.43
Aperture Value/ Shutter Speed			•						p.44
FACE DETECTION	•	•	•	•	•				p.45~ 46
STABILIZER								•	p.47

How to use the Fn menu

- 1. Press the Fn button in an available mode.
 - Press the Fn button twice in some modes.
- Select a desired menu by pressing the Up/Down button. And then a sub menu will be displayed on the bottom left side of the LCD monitor.



Select a desired menu by pressing the Left/Right button and then press the OK button.



Fn button: Size

You can select the image size appropriate for your application.

Still	Icon	Юм	29 M	7м		M	5м	3м	[м
image Mode	Size	3648x 2736	3648x 2432	3072x 2304		48x 156	2592x 1944	2048x 1536	1024x 768
Movie	lcon	128 H		1280			640	3	320
clip mode	Size	1280x7	20HQ	1280x72	20	6	340x480	32	0x240



< Still image mode >



< Movie clip mode >



The higher the resolution, the lower the number of shots available because high resolution images require more memory.

Focus Area

You can select your preferred Focus Area according to the shooting conditions.



Icon	Focus Area	Description
	Center AF	The rectangular area in the center of the LCD monitor will be focused.
	Multi AF	This camera selects all available AF points of the LCD monitor.
·ė·	Selection AF	Focus on the desired position of the LCD monitor.

* When the camera focuses on the subject, the auto focus frame turns to green. When the camera doesn't focus on the subject, the auto focus frame turns to red.

How to Enable Selection AF

Press the **Up/Down/Left/Right** button to move the focus mark to the desired position. Press the shutter button to enable Selection AF. Once setting is complete, the focus mark will be fixed at the position set. If you want to change the position of the focus mark, press the Fn button and select [Selection AF]. Then the focus mark setting window will appear.



Focus Mark

- Even if you turn off the power and turn on it again, the previous setting will be maintained.
- ※ [Selection AF] is not available when operating the [Face Detection]
 function

Fn button: Frame rate

This menu allows you to select an appropriate frame rate depending on the intended use for a recorded video. Using a faster shutter speed enables the movie clip to catch a decisive moment, but which will raise the file size.



Mode	Movie clip mode					
Icon	<u>60</u> ≠	30	15 F			
Sub menu	60 FPS	30 FPS	15 FPS			
File Format	H.264	H.264	H.264			



 This file format complies with the DCF (Design rule for Camera File system).

Fn button: Metering

If you cannot obtain suitable exposure conditions, you can change the metering method to take brighter pictures.



Icon	Metering Mode	Description
[=]	Multi	Exposure will be calculated based on an average of light in each image area divided into multiple regions. However, the calculation will be biased towards the centre of the image area. This is suitable for general use.
[•]	Spot	Only the rectangular area in the centre of the LCD monitor will be metered for light. This is suitable when the subject in the centre is exposed correctly, regardless of the back lighting.
[9]	Center Weighted	Exposure will be calculated based on an average of the available light in the image area. However, the calculation will be biased towards the centre of the image area. This is suitable for taking a picture of small objects like flowers or insects.

If the subject is not the centre of the focus area, do not use the [Spot] metering as this may result in an exposure error. In this circumstance, it is better to use exposure compensation.

Fn button: Drive mode

You can select continuous shot, and AEB (Auto Exposure Bracketing).



Icon Drive Mode		Description
	Single	Take one picture only.
	Continuous	Images will be taken continuously until the Shutter button is released. The shooting capacity depends on the memory.
	High Speed	Continuous shooting is available while pressing and holding the Shutter button (About 1.5 frames per second). The shooting speed may get slower depending on the shooting environment or the number of shots.
A=0	AEB	Take three pictures in a series in different exposures: standard exposure (0.0EV), short exposure (-1/3EV) and over exposure (+1/3EV).
	Motion Capture	This takes 6 shots per second for up to 5 seconds, when the Shutter is pressed and held down. After completing the continuous shooting, images are saved automatically. The maximum number of shots is 30 and the image size is fixed as VGA.



- High resolution and picture quality increases file saving time, which increases stand-by time.
- If the [Continuous], [High Speed], [AEB] or [Motion Capture] sub menu is selected, the flash will be off automatically.
- If less than 30 pictures are available in the memory, the motion capture is not available.
- It is best to use a tripod for the [AEB] shooting as the time to save each image file is longer and blurring caused by camera shake may occur.
- In [Manual] mode, [High Speed], [AEB], and [Motion Capture] are disabled.
- [Continuous], [High Speed] and [AEB] menus can be selected only
 when the shutter speed is faster than 1/4 second. If the shutter speed
 is slower than 1/4 second, it will be fixed with 1/4 second.

Fn button: ISO

You can select the ISO sensitivity when taking pictures.

The speed or specific light-sensitivity of a camera is rated by ISO numbers.



Icon	ISO Mode	Description
150 (1110	Auto	The camera's sensitivity is automatically changed by variables such as lighting value or subject brightness.
150 150 150 150 150 150 150 150 150 150	80 100 200 400 800 1600 3200	You use a faster (shorter) shutter speed while the same amount of light is present, by increasing the ISO sensitivity amount of light is present, by increasing the ISO sensitivity. However, the image may be saturated in high luminance. The higher the ISO value, the higher the camera's sensitivity to light and therefore the greater its capacity to take pictures in dark conditions. However, the noise level in the image will increase as the ISO value increases, making the image appear coarse.

- * When the ISO 3200 menu is selected, the image size is fixed to under 3M.
- * When [Motion Capture] is set, ISO speed will be set to Auto.
- * [ISO] is enabled only in [Program] or [Manual] mode.

Fn button: White balance

The white balance control allows you to adjust the colours to appear more natural.



Icon	White balance Mode	Description
RWB	Auto WB	The camera automatically selects the appropriate white balance settings, depending on the prevailing lighting conditions.
- Daylight		For taking images outside.
a }	Cloudy	For taking images under a cloudy or overcast sky.
1	Fluorescent_H	For shooting under daylight fluorescent types of threeway fluorescent lighting.
1	Fluorescent_L	For shooting under white fluorescent lighting.
;∳ ;	Tungsten	For shooting under tungsten (standard light bulb) lighting.
	Custom Set	Allows the user to set the white balance according to the shooting conditions.

^{*} Different lighting conditions may cause a colour cast on your images.

Fn button: White balance

Using the Custom White Balance

White balance settings may vary slightly depending on the shooting environment. You can select the most appropriate white balance setting for a given shooting environment by setting up the custom white balance.

 Select the Custom Set (□) menu of the White Balance and place a sheet of white paper in front of the camera so that the LCD monitor shows only white.



MENU/OK button: Selects previous custom white balance.

Shutter button: Saves new custom white balance.

- The custom white balance value will be applied, starting with the next picture you take.
- The user configured white balance will be remain effective until it is overwritten.

Fn button: Aperture Value

This mode will set the aperture value for automatic exposure in manual mode. Smaller aperture values make the object sharp but blur the background. Larger aperture values make both the object and background sharp.



Aperture Value

Setting up the Aperture Value

Press the **Fn** button. Then press the **command lever** to the left or right to set the aperture value.

Fn button: Shutter Speed

This mode will set the shutter speed for automatic exposure in manual mode. High shutter speeds can capture a moving object in a way that makes it seem as if the object is not moving. Low shutter speeds can capture a moving object, giving it a dynamic feeling of movement.



Shutter Speed

Setting up the Shutter Speed

Press the **Fn** button and then **Left/Right** button. Press the **command lever** to the left or right to set the shutter speed.

Fn button: Face Detection

If you use face detection options, your camera can detect a human face. When focusing on a human face, the brightness of the face is also adjusted. You can also capture natural facial expressions by using self portrait, smile shot or blink detection.

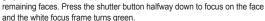


 Selectable modes: [Auto], [Program], [Manual], [DUAL IS], [Beauty Shot], [Scene] ([Portrait], [Children], [Beach&Snow], [Self-Shot], [Café])

■ Face Detection

This mode detects the face position of the subject automatically and then sets the focus and exposure.

- The size and position of the auto focus frame is automatically set on the face of the subject.
- 2. Press the Shutter button halfway.
 - When the camera detects a target face, the white colour focus frame will be displayed over the target face and the grey colour focus frame appears over the



3. Press the Shutter button fully to take a picture.





- This function can detect up to 10 faces.
- When the camera recognises many people at the same time, it will focus on the nearest person.
- Return to previous AF mode if face detection failed.
- In some conditions this function cannot work properly.
 - When a person wears dark glasses or some part of the face is hidden.
 - When the subject does not look at the camera.
 - Camera doesn't detect a face as the conditions are too dark or too bright.
 - The distance between the camera and object is too great.
 - If there is reflection of the light or the back light that are too bright.
- The maximum available Face Detection range is 2.5m (Wide).
- The nearer the subject, the faster the camera can recognize the subject.
- When using the digital zoom, [Face Detection] is not available.
- In [Beauty Shot], [Frame Guide], [Portrait], and [Children] mode, the [Face Detection] function setting is set to its default value.

Fn button: Face Detection

■ Self Portrait

When taking pictures of yourself, the area of your face is automatically detected so that you can take self portraits more easily and quickly.

- For self-filming, set the camera lens towards the face of the object. It automatically detects the face of the object, and emits a guiding sound.
 - When locating the face in the center of the screen, it repeatedly emits a faster sound unlike the sounds that are emitted when the face is not in the center.



2. Start filming by pressing the Shutter button.



 The guiding sound can be set using the [Self-Portrait] Menu. (p.80)

■ Smile Shot

The camera automatically takes a picture by detecting the face of the subject although you don't press the shutter button. If you press the **Shutter** button, the picture is taken in the normal way. When taking a picture of smile shot, showing teethes or keeping the smiley face of your subject helps detecting the smile face of the subject.



■ Blink Detection

If the eyes of the subject are closed when the shutter button is pressed, the camera takes 3 continuous shots and then the images are saved.

The camera takes only one picture if the eyes of the subject are open when the **Shutter** button is pressed.





- Detecting the smiling face or the blinking eyes may not be available if any of the following situations occurs:
 - If the subject is wearing sunglasses.
 - When the subject is not facing directly to the camera.
 - If the environmental light is too bright or too dark to detect the face of the subject.
 - When the camera is far from the subject. (Orange colored focusing mark)
 - If there is reflection of the light or the back light that are too bright.

Fn button: Movie clip frame stabiliser

This function helps stabilize images captured during movie recording. You can select this menu only in the Movie clip mode. If the memory card is not inserted, this function will not operate.



[Off]: Movie clip frame stabilizer function is disabled.

[On]: Minimises camera shake during movie recording.

* The recording frame range becomes narrow when you select this menu.

E (Effect) button

It is possible to add special effects to your images by using this button.

Available Effects, by recording mode

(•: Selectable)

Mode	E button	Mode	E button
•	•		•
	•	T	
M	•		
(4.5)	•	\(\rightarrow\)	
=	•	22	
0			
Ð		23	
1			
٥	•	m	
2	•	—	
	•		



- The E button will not operate in Voice recording mode, [Nightscene] and some [Scene] modes ([Frame Guide], [Text], [Sunset], [Dawn], [Backlight], [Firework], [Beach&Snow], [Self-Shot], [Food], [Café]).
- Even if the camera is turned off, the effect setting will be preserved.

E (Effect) button: Photo Style Selector

You can add various effects to the image without an image editing software.

Press the **E** button in an available mode.

- Select the desired Photo style selector by pressing the Left/Right button and press the OK button.
- **2.** Press the **Shutter** button to take an image.



lcon	Style mode	Description
NOR	Normal	No style effect is added to the image.
Øv.	Vivid	The image will be applied with vivid colours.
Øs.	Soft	The image will be applied with soft colours.
₽ _F	Forest	The image will be applied with clear natural colours.
$\mathcal{O}_{\mathbf{R}}$	Retro	The image will be applied in a sepia tone.
/co	Cool	The image will be applied with cool colours.
Ǽн	Calm	The image will be applied with calm colours.
ÆL	Classic	The image will be applied with classic colours.

E (Effect) button: Image editing

Press the **E** button in the [Program], [Manual], [Movie] and some scene modes ([Portrait], [Children], [Landscape], [Close up]).

Colour

- Select the Color() menu by pressing the Up/Down button.
- Select the desired sub menu by pressing the Left/Right button and press the OK button.
- **3.** Press the **Shutter** button to take an image.



Icon	Color	Description
NOR	Normal	No colour effect is added to the image.
•	B/W	Captured images will be stored in black and white.
(3)	Sepia	Captured images will be stored in a sepia tone (a gradient of yellowish brown colours).
(B)	Red	Captured images will be stored in a red tone.
(Green	Captured images will be stored in a green tone.
(B)	Blue	Captured images will be stored in a blue tone.
•	Negative	Saves the image in negative mode.
•	Custom Color	Captured image will be saved in set RGB tone.

E (Effect) button: Image editing

 Custom colour: You can change the R (Red), G (Green) and B (Blue) values of the image.



- Up/Down button: Selects R, G, B
- Left/Right button: Changes the values



Press the **E** button in the [Program], [Manual] mode.

Sharpness

- Select the Sharpness () menu by pressing the Up/Down button and a bar for selecting the sharpness will be displayed.
- 2. Change the sharpness by pressing the Left/Right button. Press the OK button.
- **3.** Press the **Shutter** button to take an image.



Contrast

- Select the Contrast() menu by pressing the Up/Down button and a bar for selecting the contrast will be displayed.
- Change the contrast by pressing the Left/Right button. Press the OK button.
- **3.** Press the **Shutter** button to take an image.



Saturation

- Select the Saturation() menu by pressing the Up/Down button and a bar for selecting the saturation will be displayed.
- 2. Change the saturation by pressing the Left/Right button. Press the OK button.
- **3.** Press the **Shutter** button to take an image.



Using the LCD monitor to adjust the camera settings

You can use the menu on the LCD monitor to set up recording functions.

■ The items indicated by are default settings.

are default estanger						
Menu	Sub i	menu	Available mode	Page		
Command Lever	EV	EV(A, S)				
Command Level	ISO	WB	(a) [M] (#) [#]	p.51		
Flash EVC	+1.0, +0.5, 0, -0.5, -1.0		® M			
Quality	Super Fine	Fine				
Quanty	Normal	-		p.52		
ACB	Off	On	(C)			
OIS	Off	On	0 0 M () 2 (2 A V T = 2 2 7 I	p.53		
Voice Memo	Off	On	0 0 M () 1 0 2 4 4 T 2 2 0 F1 1 0 1	p.00		
Voice Record	-	-		p.54		

Menu	Sub r	nenu	Available mode	Page
Voice	Off	On		p.55
voice	Zoom Mute	-	<u>_</u>	μ.55
	Frame Guide	Portrait		
	Children	Landscape		
	Close up	Text		
Scene	Sunset	Dawn		p.55
	Backlight	Firework	7 B @ 🖺	
	Beach&Snow	Self-Shot		
	Food	Café		

^{*} Menus are subject to change without prior notice.

Command Lever

You can enable the desired features for the **command lever** on the back of the camera.

- [Command Lever] Sub menus: [EV], [EV(A, S)], [ISO], [WB].
- Move the command lever to the left or right to select the submenu for each feature.



Command Lever → EV

→ ISO

Flash EVC

* For detailed information on using the **command lever**, refer to Page 30.



- The [Command Lever] feature is enabled in [Program], [Manual], [DUAL IS], or [Movie] mode.
- Selectable sub-menu and default value can vary depending on recording mode.

Flash Intensity

You can control flash intensity. (You can set flash intensity within the range of +/- 1EV in intervals of 0.5EV.)

[Flash EVC] Sub menus:
 [+1.0], [+0.5], [0], [-0.5], [-1.0].







- In [Auto], [DUAL IS], [Beauty Shot], [Nightscene], [Scene], or [Movie] mode, the [Flash EVC] feature is disabled.
- If the subject is too close or the sensitivity is too high, changing the value to a negative value (-) may not have any effect.
- If the flash intensity is out of the control range because the exposure value is too high or low, the camera may not operate properly.

Quality

You can select the compression ratio appropriate for your application of the captured images. The higher the compression ratio, the lower the picture quality.

- [Quality] Sub menus: [Super Fine], [Fine], [Normal].



Mode	Still image Mode			
Sub menu	Super Fine	Normal		
File Format	JPEG	JPEG	JPEG	



- This file format complies with the DCF (Design rule for Camera File system).
- JPEG (Joint Photographic Experts Group):
 JPEG is the image compression standard developed by the Joint Photographic Experts Group. This type of compression is most commonly used for compressing photos and graphics because it can compress the files efficiently.

ACB

This function is to adjust the contrast automatically when taking photos in an environment with big exposure difference i.e. backlight or contrast. This function adjusts the brightness automatically and allows the subject to be photographed clearly.

- [ACB] Sub menus: [Off], [On]



The ACB function is available in [Auto], [Program] or [Portrait] recording mode. ACB function always operates in the [Auto], [Portrait] recording mode



OIS (Optical image Stabilization)

This feature allows you to minimize camera shake while taking a picture.

- [OIS] Sub menus: [Off], [On].







- OIS function may not work sufficiently in the following cases.
 - To take pictures of a moving subject.
 - To take pictures with higher digital zoom values.
 - When camera shake is beyond the camera-shake correction range.
 - When the shutter speed is slow.

Voice Memo

You can add your voice-over to a stored still image. (Max. 10 sec.)



- If the voice memo indicator is displayed on the LCD monitor, the setting is completed.
- Press the **Shutter** button and take a picture. The picture is stored on the memory card.
- Voice memo will be recorded for ten seconds from the moment the picture is stored. In the mddle of the sound recording, pressing the **Shutter** button will stop the voice memo.





Voice recording

A voice can be recorded for as long as the available recording time (Max. 10 hour) allows.

Press the Shutter button to record a voice.

- Press the Shutter button once and voice is recorded for as long as the available recording time (max:10 hour) allows. The recording time will be displayed on the LCD monitor. Voice will still be recorded if the Shutter button is released
- If you wish to stop recording, press the Shutter button again.
- File type: *.way





<Voice recording mode>

Pausing while recording a voice

Using this function, you can record vour favourite voice clips into a voice recording file without having to create multiple voice recording files.



1. Press the Play & Pause () button to pause recording.

- 2. Press the Play & Pause () button again to resume the recording.
- 3. If you wish to stop recording, press the **Shutter** button again.



- A distance of 40cm between you and the camera (microphone) is the best distance to record sound.
- If the camera power is turned off while the voice recording is paused, the voice recording is cancelled.

Recording the movie clip without voice

You can record the movie without voice.

Select [Voice] menu in the Movie clip mode. (p. 25)

(() icon will appear on the LCD monitor. Press the **Shutter** button and a movie will record for as long as the memory capacity allows without voice.





Scene mode

Use the menu to easily configure optimal settings for a variety of shooting situations.

Press the **MENU** button and select a desired sub menu.

* Refer to page 23 for more information.



Starting play mode

Turn the camera on and select Play mode by pressing the **Play mode** (**)** button. The camera can now play back the images stored in the memory.

If the memory card is inserted in the camera, all the camera functions apply only to the memory card. If the memory card is not inserted in the camera, all the camera functions apply only to the internal memory.

Playing back a still image

 Select the Play mode by pressing the Play mode button.



2. The last image stored on the memory is displayed on the LCD monitor.



- Select an image that you want to view by pressing the Left/Right button.
 - Press and hold the Left or Right button to play back the images quickly.



Starting play mode

Playing back a movie clip

- Select the recorded movie clip that you want to play back by using the Left/Right button.
- 2. Press the Play & Pause () button to playback a movie clip file.
 - To pause a movie clip file while playing it back, press the Play & Pause () button again.
 - Pressing the Play & Pause () button again will cause the movie clip file to restart.
 - To rewind the movie clip while it is playing, press the Left button. To fast forward the movie clip, press the Right button.
 - To stop playback of the movie clip, press the Play & Pause (▼ID) button, and then press the Left or Right button.



 Video files (H.264 (MPEG4.AVC)) recorded with another camera cannot be played back.

■ How to Control Volume While Playing Back Movie clip

Press the **command lever** on the left while a video is playing to turn down the volume. Press the **command lever** on the right to turn up the volume.

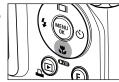


 Even though voice memo, movie clip, voice recording is playing, you can control the volume.



▶/II Pause

00:00:05 FF



Movie clip capture function

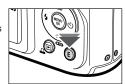
You can capture still images from the movie clip.

How to capture the movie clip

- Press the Play & Pause () button while playing the movie clip. Then press the E button.
- **2.** The paused movie clip is saved in a new file name.
- The captured movie clip file is the same size as the original movie clip (1280x720, 640x480, 320x240).
- When you press the E button at the beginning of the movie clip, the first frame of the movie clip will be saved as a still image.



<Paused>



<Press the E button>

Starting play mode

On camera movie trimming

You can extract desired frames of movie clip during the movie clip play back. If the running time is under 10 seconds, the movie clip can't be trimmed.

- Press the Play & Pause () button at the point of the movie clip where you want to start extracting.
- 2. Press the Zoom T Lever
- Press the Play & Pause () button and the extracted range will be displayed on the status bar.
- Press the Play & Pause () button once more at the point where you wish the extracted file to stop.
- Move the Zoom T lever to display a window that prompts you to check if the video has been extracted.
- Select a desired sub menu by pressing the Up/Down button and press the OK button.

[No]: The movie trimming will be cancelled.

[Yes]: The extracted frames are saved as a new file name.



If you don't specify the ending point of the movie clip, the trimming confirmation window will be displayed at the point of the last frame.







Playing back a recorded voice

- Select the recorded voice that you want to play back by using the Left/Right button.
- 2. Press the Play & Pause () button to play back a recorded voice file.
 - To pause a recorded voice file, while playing it back, press the Play & Pause () button again.



- To resume playback of the voice file, press the Play & Pause (●▼//▶) button
- To rewind the voice file while it is playing, press the Left button.
 To fast forward the voice file, press the Right button.
- To stop playback of the voice memo, press the Play & Pause
 () button and then press the OK button.

Starting play mode

Playing back a voice memo

- Select a still image that has the voice memo.
- 2. Press the Play & Pause () button to play back the voice memo.
 - To pause the voice memo, while playing it back, press the Play & Pause () button again.
 - To resume playback of the voice memo, press the Play & Pause
 () button.
 - To stop playback of the voice memo, press the Play & Pause ()
 button and then press the OK button.







LCD monitor Indicator

The LCD monitor displays shooting information about the displayed image.



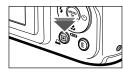
No.	Description	Icon	Page
1	Playback mode	D .	p.55
2	Folder name & File name	100-0010	p.85
3	Internal memory icon/ Memory card icon indicator	m3 / 🕞	-
4	Battery	@@@C	p.15
5	Histogram		p.31
6	ISO	80 ~ 3200	p.43
7	Aperture value	F 3.3 ~ 13.1	p.44
8	Shutter speed	16 ~ 1/1500	p.44
9	Flash	On/Off	p.34~35
10	Image size	3648x2736 ~ 320X240	p.40
11	Recording date	2009/01/01	p.82
12	DPOF	ð	p.75~77
13	Protect	•π	p.74
14	Voice Memo	•	p.72

Using the camera buttons to set the camera

In Play mode, you can use the buttons on the camera to conveniently set up the Play mode functions.

Play mode button

If you have turned on the camera by pressing the POWER button, you can press the Play mode button once to switch to Play mode and press it again to switch to Recording mode.



- You can turn the power on with the Play mode button. The camera is turned on in play mode. Press the Play mode button again to turn off the camera
- Manner mode: To select the Manner mode, press the Play mode button for more than 3 seconds. In the Manner mode, Operating sound, Effect sound, Start-up sound and Shutter sound will not be generated. To cancel the Manner mode, turn on the camera by pressing the POWER button

Thumbnail(♠)/Digital Zoom(♥) Lever

You can view multiple pictures, enlarge a selected picture, and crop and save a selected area of an image.

Thumbnail display

- 1. Once a picture has been played back, move the **Thumbnail** lever to the left.
- The thumbnail display will highlight the image that had been showing at the time the thumbnail mode was selected.



- 3. Press the 5 function button to move to a desired image.
- Move the Digital Zoom lever to the right to return to the picture playback state.







<Normal display mode>

Highlighted image —
<Thumbnail display mode>

Using the camera buttons to set the camera

- Image enlargement
 - Select the picture you want to enlarge and move the **Digital Zoom** lever to the right. Then the selected picture will be digitally enlarged.



 Different parts of the image can be viewed by pressing the 5 function button

- Move the Thumbnail lever to the left to return the enlarged picture to its original size.
 - You can tell whether the image displayed is an enlarged view by checking the image enlargement indicator shown at the top left of the LCD monitor. (If the image is not an enlarged view, the indicator will not be displayed.) You can also check the area of enlargement.
 - Movie clips and WAV files can't be enlarged.
 - If an image is enlarged, a loss of quality may occur.

■ The maximum enlargement rate in proportion to the image size

Image size	Юм	49⋒	7м	7m	5м	3м	[M
Maximum enlargement rate	X11.40	X10.10	X9.60	X9.50	X8.10	X6.40	X3.20

- Trimming: You can extract part of the image that you want and save it separately.
- Select an image that you want to enlarge and press the enlargement button. Press the OK button and a message will be displayed.

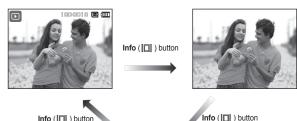


- Select a desired sub menu by pressing the Up/Down button and press the OK button.
 - [No]: The trimming menu will disappear.
 - [Yes]: The trimmed image will be saved as a new file name, and appear on the LCD monitor.
- If there is not enough memory space to save the trimmed image, the image can't be trimmed.

Info (D) / Up button

Info (| |) buttor

When the menu is displayed on the LCD monitor, the **Up** button operates as a direction button. When the menu is not displayed on the LCD monitor, pressing the Info(II) button will display image information on the LCD monitor.





Play & Pause () / Down button

In Play mode, the Play & Pause () Down button works as follows:

- If the menu is displayed
 - Press the **Down** button to move from the main menu to a sub menu. or to move down the sub menu cursor
- If a still image with a voice memo, a voice file, or a movie clip is playing
 - · In Stop mode: Plays a still image with a voice memo, a voice file, or a movie clip.
 - · During playback: Temporarily stops playback.
 - · In Pause mode: Resumes playback







<Voice recording is playing>



<Voice recording is paused>

Left / Right / MENU / OK button

Left/Right/MENU/OK button activate the following.

 Left button: While the menu is showing, the Left button operates as a direction button. While the menu is not showing, press the

Left button to select the previous image.

 $-\,\mbox{\bf Right}$ button: $\,$ While the menu is showing, the $\mbox{\bf Right}$ button operates as

a direction button. While the menu is not showing, press

the **Right** button to select the next image.

 $-\,\mbox{MENU}$ button: When you press the \mbox{MENU} button, the play mode menu

will be displayed on the LCD monitor. Pressing it again will

return the LCD to the initial display.

– OK button: When the menu is displayed on the LCD monitor, the OK

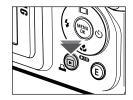
button is used for confirming data that is changed by using

the 5 function button.

Print () button

When the camera is connected to a PictBridge printer, you can print images by pressing the **Print** button.





Delete (俗) button

This deletes images stored on the memory card. By activating the Recycle Bin function (p.84) you can restore deleted photos.

 Select an image that you want to delete by pressing the Left/Right button and press the Delete button.





<Single Image>



<Thumbnail Image>

- 2. Press the **Zoom T** lever to add an image to be removed.
 - Left/Right button: Selects images
 - Zoom T Lever: Checks for deletion
 - OK button: Deletes the selection



- Select the submenu values by pressing the Up/Down button and then press the OK button.
 - If [No] is selected: Cancels "Delete Image".
 - If [Yes] is selected: Deletes the selected images.

E (Effect) button: Resize

Change the resolution (size) of pictures taken. Select [Start image] to save an image to be the start-up image.

- Press the Play mode button and press the E button.
- 2. Press the Left/Right button and select the [RESIZE] (☑) menu tab.
- Select a desired sub menu by pressing the Up/Down button and press the OK button.



■ Image Resize Types

(: Selectable)

	7м	5м	3м	[M	? a
Юм	•	•	•	•	•
7м		•	•	•	•
5м			•	•	•
3м				•	•
[M					•
		₫ 7м	4 5м	△ 3M	4M
49⋒		•	•	•	•
			5 _M	2m	IM
7 _M			•	•	•

- A large sized image can be resized to a smaller sized image, but not vice versa.
- Only JPEG images can be resized. Movie clip (H264), Voice recording (WAV) files can't be resized.
- You can change the resolution of only those files compressed in the JPEG 4:2:2 format.
- The resized image will have a new file name. The [Start Image] image is stored not on the memory card but on the internal memory.
- If a new user image is saved, one of the two user images will be deleted in order.
- If the memory capacity is insufficient to store the resized image, a [Memory Full!] message will appear on the LCD monitor and the resized image can't be stored.

E (Effect) button: Rotating an image

You can rotate the stored images by various degrees.

Once the playback of the rotated picture is finished, it will switch back to the original state.



< **)**: 180°>:

degrees

Rotate picture 180

40 IIII

- Press the Play mode button and press the E button.
- 2. Press the Left/Right button and select the [ROTATE] (回) menu tab.
- 3. Select a desired sub menu by pressing the Up/ Down button.



: Right 90°>:
Rotate picture in a clockwise direction



<p-: Horizontal>:
Rotate picture horizontally



< : Left 90°>:
Rotate picture in a counterclockwise direction



<**♥**: Vertical>: Rotate picture vertically

If you display the rotated image on the LCD monitor, empty spaces may appear to the left and right of the image.

E (Effect) button: Colour

It is possible to add colour effects to your images by using this button.

- Press the Play mode button and press the E button.
- 2. Select () menu tab by pressing the Left/Right button.



Select a desired sub menu by pressing the Up/Down button and press the OK button

Icon	Effect Mode	Description
80	B/W	Captured images will be stored in black and white.
•	Sepia	Captured images will be stored in a sepia tone (a gradient of yellowish brown colours).
()	Red	Captured images will be stored in a red tone.
(Green	Captured images will be stored in a green tone.
(3)	Blue	Captured images will be stored in a blue tone.
•	Negative	Save the image in negative mode.
(Custom Color	Captured images will be stored in set RGB tone.

4. The changed image is saved as a new file name.

E (Effect) button: Colour

Custom colour

You can change the R(Red), G(Green) and B(Blue) values of the image.



- OK button: Selects / sets up the Custom Colour
- Up/Down button: Selects R, G, B
- Left/Right button: Changes the values



E (Effect) button: Image editing

- 1. Press the Play button and press the E button.
- 2. Select () menu tab by pressing the **Left/Right** button.

ACB

You can automatically adjust the brightness of the dark area, caused by under exposure to the light source.

- 1. Select () by pressing the Up/Down button and press the OK button.
- The [Processing!] message is displayed and the image is saved as a new file name



Red eye removal

Red eye effect can be removed from the captured image.

- Select () by pressing the Up/Down button and press the OK button.
- 2 The [Processing!] message displays and the image is saved as a new file name



E (Effect) button: Image editing

Face Retouch

When you recorded a person, you can retouch the subject's face.

- Select () by pressing the Up/Down button and a bar for selecting the [Face Retouch] will be displayed.
- 2. Change the Face Retouch by pressing the **Left/Right** button.
- 3. Press the **OK** button and the image will be saved as a new file name.



Contrast control

You can change the contrast of the image.

- Select () by pressing the Up/Down button and a bar for selecting the contrast will be displayed.
- 2. Change the contrast by pressing the Left/Right button.
- 3. Press the **OK** button and the image will be saved as a new file name.



Brightness control

You can change the brightness of the image.

- Select () by pressing the Up/Down button and a bar for selecting the brightness will be displayed.
- 2. Change the brightness by pressing the Left/Right button.
- Press the **OK** button and the image will be saved as a new file name.



Saturation control

You can change the saturation of the image.

- 2. Change the saturation by pressing the Left/Right button.
- 3. Press the **OK** button and the image will be saved as a new file name



E (Effect) button: Image editing

Noise effect

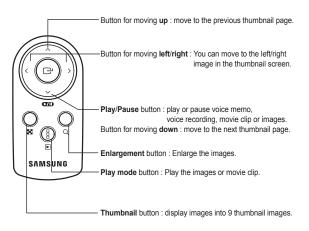
You can add noise to an image to add a more classic feel to your photo.

- Select () by pressing the Up/Down button and press the OK button.
- 2 The [Processing!] message is displayed and the image is saved as a new file name



Using the remote control in play mode

You can play the movie clip and images by remote control.



* See page 38 about using the remote control in recording mode.

Setting up the play back function using the LCD monitor

Play mode functions can be changed by using the LCD monitor. In the Play mode, pressing the **MENU** button displays the menu on the LCD monitor. The menus you can set up in Play mode are as follows. To capture an image after setting up the play menu, press the **Play mode** button or **Shutter** button.

Menu Tab	Main Menu	Sub Menu	Sub Menu	Page
	Show Start	Play/Repeat Play	-	p.69
MULTI SLIDE SHOW ()	Images	All	-	
	images	Smart Album	-	p.70
	Effect		weet/Rural/ Shine/Relax	ρ.70
	Interval	1, 3, 5, 10sec	-	
	Music		e/Fall/Dawn/ rops/Trip	p.71
	Voice Memo	Off	-	p.72
	voice iviento	On	-	p.72
PLAY BACK (•)	Smart Album	Off	-	p.72~
	Smart Album	On	-	73
	Protect	Select	-	p.74
	FIOLECT	All	Unlock/Lock	ρ./4

Menu Tab	Main Menu	Sub Menu		Sub Menu	Page	
	Delete	Select		-	p.75	
	Delete	All		Yes/No		
PLAY BACK (•)		Standard		Select/All Pics/Cancel	- 75	
	DPOF	Index		No/Yes	p.75~ 77	
		Size		Select/All Pics/Cancel	''	
	Copy To Card	No	Yes	-	p.78	

This menu is available while the camera is connected to a PictBridge supporting printer (direct connection to the camera, sold separately) with a USB cable.

Menu Tab	Main Menu	Sub I	Menu	Sub Menu	Page
	Images	One Pic	All Pics	-	
		Auto	Postcard	-	
~		Card	4X6	-	
	Size	L	2L	-	p.89
		Letter	A4	-	
		A3	-	-	
	Layout	Auto	Full	-	
		1	2	-	
		4	8	-	
		9	16	-	
		Index	-	-	

Setting up the play back function using the LCD monitor

Menu Tab	Main Menu	Sub Menu	Sub Menu	Page
~	Туре	Auto	-	p.89
		Plain	-	
		Photo	-	
		FastPhoto	-	
	Quality	Auto	-	
		Draft	-	
		Normal	-	
		Fine	-	
	Date Print	Auto	-	
		Off	-	
		On	-	
	File Name	Auto	-	
		Off	-	
		On	-	
	Reset	No	-	
		Yes	-	

^{*} Menus are subject to change without prior notice.

Starting the slide show (

Images can be displayed continuously at pre-set intervals. You can view the slide show by connecting the camera to an external monitor.

- 1. Press the Play mode button and press the MENU button.
- Press the Left/Right button and select the [MULTI SLIDE SHOW] menu tab.

Start the slide show

The slide show can start only in the [Show Start] menu.

- Use the Up/Down button to select the [Show Start] menu and press the Right button.
- 2. Select a desired sub menu by pressing the **Up/Down** button.

[Play]: The slide show is closed after one cycle.

[Repeat Play]: The slide show is repeated until cancelled.



- 3. Press the **OK** button and the slideshow will be started.
 - To pause the slide show while playing it back, press the Play & Pause () button again.
 - Pressing the Play & Pause () button again will cause the slide show to restart.
 - To stop playback of the slide show, press the Play & Pause () button, and then press the OK button.

Starting the slide show ()

Selecting Images

You can select image to view.

- Use the **Up/Down** button to select the [Images] menu and press the **Right** button.
- 2. Select a desired sub menu by pressing the **Up/Down** button.

[All]: All images saved in the Memory are played back.

[Smart Album]: Images are played back

depending on the category of [Smart Album].

Show Start

→ Smart Album

OK Set

Images

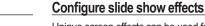
Effect

Interval

Music

Back

3. Press the **OK** button and the settings are saved.



Unique screen effects can be used for the slide show.

- Select the [Effect] sub menu by pressing the Up/Down button and press the Right button.
- 2. Use the **Up/Down** button to select the type of effect.
- Press the **OK** button to confirm the setting.



 When the effect is selected, the background music is changed according to the default setting of the effect.

Effect	Description	
Off	No background music.	
Calm	Background music is set to [Mist].	
Sweet	Background music is set to [Muse].	
Rural	Background music is set to [Fall].	
Vivid	Background music is set to [Dawn].	
Lively	Background music is set to [Party].	
Shine	Background music is set to [Drops].	
Relax	Background music is set to [Trip].	



You can change the desired music for each effect.

Starting the slide show ()

Setting play interval

Set the slide show play interval.

- 1. Select the [Interval] sub menu by pressing the Up/Down button and press the **Right** button.
- 2. Use the Up/Down button to select the desired interval
- 3. Press the **OK** button to save the configuration.





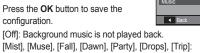
- The loading time depends on the image size and quality.
- While the slide show is playing, only the first frame of a movie file is displayed.
- While the slide show is playing, the voice recording file will not display.
- [Interval] is available when the effect is set to [Off], [Calm], [Sweet] in the slide show. It is unavailable when the effect is set to [Rural], [Vivid], [Lively], [Shine], [Relax] in the slide show.

Setting Background Music

Set the slide show music.

- 1. Select the [Music] sub menu by pressing the Up/Down button and press the Right button.
- 2. Use the Up/Down button to select the desired Music
- 3. Press the OK button to save the configuration.

Selected music is played back.





Voice memo

You can add your voice to a stored still image.







<Voice memo menu>

<Ready for recording>

<Voice is recording>

- Press the Shutter button to take a picture. The images are saved on the memory. After saving the image, the voice is recording for 10 seconds.
- To stop the recording, press the **Shutter** button.

Smart Album

You can easily categorize or search a large amount of content such as pictures and videos.

- Press the Up/Down button to select the [Smart Album] menu. Press the Right button.
- Press the Up/Down button to select [On].
 In [Smart Album], [On] is the default value.
- **3.** Press the **Play mode** button to switch to playback mode.
- **4.** Move the **Zoom W/T** lever to the left to move to the Smart Album window.
- **5.** Each time you press the **Down** button, you can move to another category.
- **6.** Press the **Left/Right** button to move to the previous or next file.
 - As the display bar moves, the target image is displayed.







- When [Smart Album] mode runs firstly, it may take few minutes depends on recorded data numbers. But it is not a malfunction please wait until smart album screen appears.
- If the memory card is not inserted, [Smart Album] function will not operate.

■ Details of Each Category

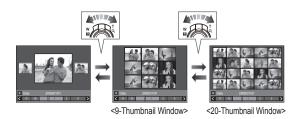
Category	Description	File Format		
Date	Categorized depending on the sequence of recorded dates.			
Colour	Categorized depending on the main color.			
Week	Categorized depending on the sequence of recorded weeks.	Videos, voice		
Туре	Categorized depending on the file type (e.g., picture, video, or voice)			

■ Searching or Deleting Files

- Move the Thumbnail lever to the left in the Smart Album window.
- Each time you move the **Thumbnail** lever to the left, the files in a category are displayed in the 9-tumbnail or 20-tumbnail window.



- 3. Select the file by pressing the Up/Down/Left/Right buttons.



Protecting images

This is used to protect specific shots from being accidentally erased (Lock). It also unprotects images that have been previously protected (Unlock).

- Press the Up/Down button and select the [Protect] menu tab. And then press the Right button.
- Select a desired sub menu by pressing the Up/Down button and press the OK button.

[Select]: Selection window for an image to be protected / released is displayed.

- Up/Down/Left/Right button:
 Select an image.
- Zoom T/W Lever: Protect / release the image.
- **OK** button: Your changes will be saved and the menu will disappear.

[All]: Protect / release all saved images.





- If you protect an image, the protect icon will be displayed on the LCD monitor. (An unprotected image has no indicator)
- An image in Lock mode will be protected from the delete function or [Delete] functions, but will NOT be protected from the [Format] function.





Deleting images

This deletes images stored on the memory card. By activating the Recycle Bin function (p.84) you can restore deleted photos.

- Press the Up/Down button and select the [Delete] menu tab. And then press the Right button.
- Select a desired sub menu by pressing the Up/Down button and press the OK button.

[Select]: Selection window for an image to delete is displayed.

- Up/Down/Left/Right button:
 Select an image.
- Zoom T Lever: Select the image for deletion. (V mark)
- OK button: Press the OK button to display the confirmation message. Select the [Yes] menu and press the OK button to delete marked images.

[All]: Displays confirmation window.

Select the [Yes] menu and press the **OK** button to delete all unprotected images. If there are

no protected images, all the images are deleted and a [No Image!] message will display.







3. After deletion, the screen will be changed to the play mode screen.



 Of all the files stored in the memory card, the unprotected files in the DCIM subfolder will be deleted. Remember that this will permanently delete unprotected images. Important shots should be stored on a computer before deletion takes place. The startup image is stored in the camera's internal memory (i.e., not on the memory card) and it will not be deleted even if you delete all files on the memory card.

DPOF

- DPOF(Digital Print Order Format) allows you to embed printing information on your memory card's MISC folder. Select the pictures to be printed and how many prints to make.
- The DPOF indicator will be displayed on the LCD monitor when an image that has DPOF information plays back. Images can then be printed on DPOF printers, or at an increasing number of photo labs.
- This function is not available for movie clips and voice recording files.
- When the wide angle image is printed as a wide angle print, 8% of the left and right side of the image may not be printed. Check that your printer can support the wide angle image when you print the image. When you print the image at a photo lab, request that the image is printed as a wide angle image. (Some photo labs may not support the wide angle size print.)

Standard

This function allows you to embed printing quantity information on a stored image.

- Press the Up/Down button and select the [DPOF] menu tab. And then press the Right button.
- Press the Right button again and [Standard] sub menu will be displayed.
- Select a desired sub menu by pressing the Up/Down button and press the OK button.

[Select]: Selection window for an image to print is displayed.

- Up/Down/Left/Right button: Select an image to print.
- Zoom T/W Lever: Select the number of prints.

[All Pics]: Configure number of prints for all pictures except movie and voice files.

Zoom T/W Lever: Select a number of prints.

[Cancel]: Cancel the print setup.







 Press the OK button to confirm the setting. If an image carries DPOF instructions, the DPOF () indicator will show.

■ Index

Images (except for movie clips and voice file) are printed as index type.

- Press the Up/Down button and select the [DPOF] menu tab. And then press the Right button.
- 2. Press the **Right** button again and [Index] sub menu will be displayed.
- 3. Select a desired sub menu by pressing the **Up/Down** button.

If [No] is selected: Cancel the index

print setting.



4. Press the **OK** button to confirm the setting.



■ Print size

You can specify the print size when printing images stored on the memory card. The [Size] menu is available only for DPOF 1.1 compatible printers.

- Press the Up/Down button and select the [DPOF] menu tab. And then press the Right button.
- 2. Press the **Right** button again and select the [Size] sub menu will be displayed.
- Select a desired sub menu by pressing the Up/Down button and press the OK button.

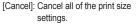
[Select]: Selection window to change the printed size of the image is displayed.

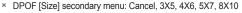
- Up/Down/Left/Right button:
 Select an image.
- Zoom T/W Lever: Change the print size.
- **OK** button: Your changes will be saved and the menu will disappear.





- [All Pics]: Change print size of all saved images.
- Zoom T/W Lever: Select a print size.
- OK button: Confirm the changed setting.









 Depending on the manufacturer and print model, cancelling the printing may take a little longer for the printer to process.

Copy To Card

This enables you to copy image files, movie clips and voice recording files to the memory card.

- Select the [Copy To Card] menu tab by pressing the Up/Down button. And then press the Right button.
- Select a desired sub menu by pressing the Up/Down button and press the OK button.
 - [No]: Cancels [Copy To Card].
 - [Yes]: All images, movie clips and

voice recording files saved in the internal memory are copied to the memory card after the [Processing!] message is displayed. After copying has been completed, the screen will return to play mode.





- If there is not enough space available in the memory card to copy saved images in the internal memory (30MB), the [Copy To Card] command will copy only some of the images and display [Memory Full!] message. Then the system will return to the Playback mode. Please be sure to delete any unnecessary files to free up space before inserting the memory card into the camera.
- When you move the images that are stored in the internal memory by doing [Copy To Card] to the card, the next number of file names will be created in the card to avoid duplication of the file name.
 - When the [Reset] of the [File] setup menu is set: The copied file names start from after the last stored file name.
 - When the [Series] of the [File] setup menu is set: The copied file names start from after the last captured file name. After completing [Copy To Card], the last stored image of the last copied folder is displayed on the LCD monitor.

Sound menu

In this mode, you can set up sound settings. You can use the setup menu in all camera modes, except Voice recording mode.

- The menus marked * are set to the default value.
- * Menus are subject to change without prior notice.

Sound (◀》)

Volume

You can set select a volume of shutter sound, beep sound and AF sound.

[Volume] sub menus: [Off], [Low], [Medium]*, [High]



Start up Sound

You can select the sound that is activated whenever the camera is turned on.

[Start Sound] sub menus:[Off]*, [Sound 1], [Sound 2], [Sound 3]



Shutter Sound

You can select the shutter sound.

[Shutter Sound] sub menus:[Off], [Sound 1]*, [Sound 2], [Sound 3]





Beep Sound

If you set sound to on, various sounds will be activated for camera startup, when **OK** button is pressed, so that you can be aware of the camera operation status.

[Beep Sound] sub menus:[Off], [Sound 1]*, [Sound 2], [Sound 3]



Self Portrait

This feature automatically detects the location of the face and optimises the camera settings to ensure a great self portrait.

– [Self-Portrait] sub menus: [Off], [On]*



AF Sound

If you set AF sound to on, AF sound will be activated when the Shutter button is pressed down half way so that you can be aware of the camera operation status.

- [AF Sound] sub menus: [Off], [On]*



Setup menu

In this mode, you can set up basic settings. You can use the setup menu in all camera modes, except Voice recording mode.

- The menus marked * are set to the default value.
- * Menus are subject to change without prior notice.

Display (III)

Language

There is a choice of languages that can be displayed on the LCD monitor. Even if the battery is removed and inserted again, the language setting will be preserved.



Setting the Grid Line

You can set the type of grid displayed on the histogram/grid window. (p. 31)

[Grid Line] sub menus:[2 X 2]*:







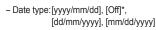




Display (III)

Setting up the Date / Time / Date type

You can change the date and time that will be displayed on the captured images and set up the date type. If [World Time] is set in foreign countries, the date and time of the destination will be displayed on the LCD monitor.







OK S

Language

Grid Line

Date&Time

Start Image

Quick View

◆ Back

Display Bright

Adelaide, Seoul, Tokyo, Beijing, Hong
Kong, Bangkok, Jakarta, Yangon, Almaty, Kathmandu, Mumbai, New
Delhi, Tashkent, Kabul, Abu Dhabi, Teheran, Moscow, Athens, Helsinki,
Rome, Paris, Berlin

- [DST] (Daylight Saving Time):

Press the **Up** button to set up [DST]. (%) icon will appear in front of the city name.

Start up image

You can select the image that is first displayed on the LCD monitor whenever the camera is turned on.

- [Start Image] sub menu: [Off]*, [Logo], [User Image]
- Use a saved image for the start-up image with the [Start Image] in the [RESIZE] menu in the play mode.



- The start-up image will not be deleted by [Delete] or [Format] menu.
- The User images will be deleted by [Reset] menu.

Display brightness

You can adjust the LCD brightness.

- [Display Bright] sub menu: [Auto], [Dark], [Normal]*, [Bright]



Display (III)

Quick view

If you enable Quick View before capturing an image, you can view the image you just captured on the LCD monitor for the duration set in the [Quick View] setup. Quick view is possible only with still images.



Sub menus

[Off]: The quick view function can't be activated.
[0.5sec]*, [1sec], [3sec]: The captured image is briefly displayed during the selected time.

Display Save

If you set the [Display Save] to On and the camera isn't operated during the specified time, the LCD monitor will be turned off automatically.

- Sub menus
 - [Off]*: The LCD monitor will not be turned off.
 - [On]: If the camera isn't operated

during the specified time (about 30 SEC.), the camera power will be idle (Camera status lamp:Blinking) automatically.



Settings (\$)

Formatting a memory

If you run [Format] on the memory, all files which are image, video clip and even protected images will be deleted. So be sure to download important files to your PC before formatting the memory.



- Sub menus
 - [No]*: The memory will not be formatted.
 - [Yes]: A window for confirming the selection displays.
- [Processing!] A message is displayed and the memory card is formatted. When the memory card is formatted, a message saying that [No Image!] appears.
- Be sure to run [Format] on the following types of memory card.
 - A new memory card, or an unformatted memory card
 - A memory card that has a file this camera can't recognise or one that has been taken from another camera.
 - Always format the memory card using this camera. If you insert a memory card that has been formatted using other cameras, memory card readers, or PCs, you will get a [Card Error!] message.
 - [Processing!] A message is displayed and the memory card is formatted. When the memory card is formatted, a message saying that [No Image!] appears.

Initialisation

All camera menu and function settings will be restored to their default values. However, values for Date/Time, Language, and Video will not be changed.

Sub menus

[No]*: Settings will not be restored to their defaults

[Yes]: A window to confirm the selection is displayed. Select the [Yes] menu and all settings will be restored to their defaults.



Recycle Bin

You can activate the [Recycle Bin] function or restore photos saved in the recycle bin. By turning on this function, you can temporarily save photos up to a total 10MB capacity. You can also restore photos from the recycle bin.



Sub menus

[Off]*: Do not want to use the Recycle Bin function.

[On]: Deleted photos are saved in the Recycle folder.

[Recycle Folder]: You can restore the deleted photos from the Recycle folder.



- The Recycle Bin function only works with photos.
- When you delete all files at once, the files are not saved in the Recycle Bin. When the Recycle bin is full of space, it removes photos in sequence from the first deleted photo.
- Although you turn off the Recycle function, the Recycle bin still keeps the photos.
- When you format the built-in/external memory, all photos in the Recycle Bin are deleted.

File name

This function allows the user to select the file naming format.



File name	Description		
Reset	After using the reset function, the next file name will be set from 0001 even after formatting, deleting all or inserting a new memory card.		
Series*	New files are named using numbers that follow the previous sequence, even when a new memory card is used, or after formatting, or after deleting all pictures.		



- The first stored folder name is 100SSCAM, and the first file name is SDC10001.
- File names are assigned sequentially from SDC10001 → SDC10002 → ~ → SDC19999.
- The folder number is assigned sequentially from 100 to 999 as follows: 100SSCAM → 101SSCAM → ~ → 999SSCAM.
- Maximum numbers of files in a folder are 9999.
- The files used with the memory card conform to the DCF (Design rule for Camera File systems) format. If you change the image file name, the image may not play back.

Imprinting the recording date

There is an option to include DATE/TIME on still images.

Sub menus

[Off]*: The DATE & TIME will not be imprinted on the image file.

[Date]: Only the DATE will be imprinted on the image file.



[Date&Time]: The DATE & TIME will be imprinted on the image file.

- * The Date & Time are imprinted at the bottom right side of the still image.
- * The imprint function is applied only to still images.
- Depending on the manufacturer and print mode, the date printed on an image may not be printed correctly.

Auto power off

This function switches the camera off after a set amount of time in order to prevent unnecessary battery drainage.

- Sub menus

[Off]: Do not want to use the Power Off function.

[1min], [3min]*, [5min], [10min]:

The power will turn off automatically if not used for the period of time specified.

Format

Reset

File

Imprint

Power Off

Recycle Bin

→ Off

→ 1min

→ 3min

OK Set

- After replacing the battery, the [Power Off] setting will be preserved.
- Note that the automatic [Power Off] function will not operate if the camera is in the PC/Printer mode, slide show, playing back a voice recording and playing back a movie clip.

Selecting video out type

The Movie output signal from the camera can be NTSC or PAL. Your choice of output will be governed by the type of device (monitor or TV, etc.) to which the camera is connected. PAL mode can support only BDGHI.

Connecting to an external monitor

When the camera is connected to an external monitor, the image and menus on the LCD monitor will be visible on the external monitor and the LCD monitor of the camera.



Selecting Video out type	Description
NTSC	U.S.A, Canada, Japan, South Korea, Taiwan, Mexico.
PAL	Australia, Austria, Belgium, China, Denmark, Finland, Germany, U.K., Holland, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway.



- When using a TV as an external monitor, you will need to select the external or AV channel of the TV.
- There will be a digital noise on the external monitor, but it is not a malfunction.
- If the image is not in the centre of the screen, use the TV controls to centre it.
- When the camera is connected to an external monitor, some parts of the image may not be displayed.
- When the camera is connected to an external monitor, the menu will be visible on the external monitor and the menu functions are the same as those indicated on the LCD monitor.

Auto focus lamp

You can turn on and off the Auto Focus lamp.

- Sub menus

[Off]: The AF lamp will not light up in low light conditions.

[On]*: The AF lamp will light up in low light conditions.



Setting the USB

If the camera is set to connect automatically to a PC or a printer using a USB cable, you can manually set [Computer] or [Printer].

[USB] sub menus
 [Auto]*: Automatically enables an
 external device connected with
 a USB cable.



[Computer]: Sets computer connection mode if the connected external device cannot be recognized automatically.

[Printer]: Sets printer connection mode if the connected external device cannot be recognized automatically.

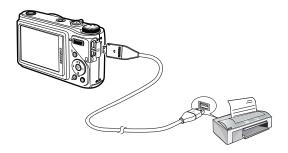
PictBridge

You can use the USB cable to connect this camera to a printer that supports PictBridge (sold separately) and print the stored images directly. Movie clips and voice files cannot be printed.

Setting up the camera for connection to the printer

- 1. Connect the camera and printer with USB cable.
- Once the camera is turned on, the camera automatically recognizes the printer and is connected to it.
- * If automatic connection fails, set the [USB] menu to [Printer]. (p.87).
- For a printer that can enable removable disks, set the [USB] menu to [Printer].

■ Connecting the Camera to a Printer



Easy printing

When you connect the camera to printer in the Play back mode, you can print a picture easily.

- Pressing the Left/Right button:
 Selects a previous / next image.
- Pressing the Print () button:
 Currently displayed image will be printed with the printer's default setting.

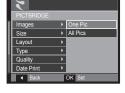


PictBridge: Picture Selection

You can select images you want to print.

Setting the Number of Copies to Print

- Press the MENU button and the PictBridge menu will be displayed.
- Use the Up/Down button to select the [Images] menu and press the Right button.
- Use the Up/Down button to select a desired sub menu and press the OK button



 Select [One Pic] or [All Pics]. A screen where you can set the number of copies to print will appear as shown below.





<When [One Pic] is selected>

<When [All Pics] is selected>

- Press the **Up/Down** button to select the number of prints.
- When [One Pic] is selected: Use the Left/Right button to select another picture. After selecting another picture, select the number of prints for another picture.
- After setting the number of prints, press the **OK** button to save.
- Press the Shutter button to return to the menu without setting the number of prints.
- Press the Print (♣) button and images will be printed.

PictBridge: Print Setting

You can select the Paper Size, Print Format, Paper Type, Print Quality, Date Print, and File Name Print menus for printed pictures.

- Press the MENU button and the PictBridge menu will be displayed.
- Use the Up/Down button to select the desired menu, and then press the Right button.
- ect the he Right | Pictbridge | Postard | Layout | Card | Type | 1 4x6 | Quality | L L | Date Print | 2 L | 4 Back | OK Set |
- Use the Up/Down button to select the desired sub menu value, and then press the OK button.

Menu	Function	Sub menu
Size	Set the size of the printing paper.	Auto, PostCard, Card, 4X6, L, 2L, Letter, A4, A3
Layout	Set the number of pictures to be printed on a sheet of paper.	Auto, Full, 1, 2, 4, 8, 9, 16, Index
Туре	Set the quality of the printing paper.	Auto, Plain, Photo, FastPhoto
Quality	Set the quality of the picture to be printed.	Auto, Draft, Normal, Fine
Date Print	Set whether to print the date.	Auto, Off, On
File Name	Set whether to print the file name.	Auto, Off, On

Some menu options are not supported on all printers. If not supported, the menus are still displayed in the LCD, but are not selectable.

PictBridge: Reset

Initialises user-changed configurations.

- Use the Up/Down button to select the [Reset] menu tab. And then press the Right button.
- Use the Up/Down button to select the desired sub menu value, and then press the OK button.



If [No] is selected: Settings will not be reset.

If [Yes] is selected: All print and image settings will be reset.

Default print setting varies depending on the printer manufacturer. For your printer's default setting, refer to the user's guide that came with your printer.

Software notes

Please ensure that you read the instruction manual carefully before use.

- Under no circumstances should all or part of either the software or the user manual be reproduced.
- Copyrights for software are licensed only for use with a camera.
- In the unlikely event of a manufacturing fault, we will repair or exchange your camera. We cannot, however, be held responsible in any way for damage caused by inappropriate use.
- Using a Hand-made PC or a PC and OS that has not been guaranteed by the manufacturer is not covered by the Samsung warranty.
- Before reading this manual, you should have a basic knowledge of computers and O/S (Operating Systems).

Software notes

System requirements

	For Windows	For Macintosh
USB support environment	PC with processor better than Pentium III 500MHz (Pentium III 800MHz recommended) Windows 2000 / XP / Vista Minimum 256MB RAM (Over 512MB recommended)	Power Mac G3 or later, or Intel Processor Mac OS 10.3 or later 110MB of available hard-disk space Minimum 256MB RAM (Over 512MB recommended)
Software support environment	250MB of available hard-disk space (Over 1GB recommended) 1024×768 pixels, 16-bit color display compatible monitor (24-bit color display recommended) Microsoft DirectX 9.0c or later	Not supported

^{*} It is not compatible with Windows XP and Vista 64-bit Edition.

QuickTime Player 7.5 : H.264(MPEG4.AVC) playback Requirements

For Windows	For Macintosh
Intel Pentium 4, 3.2GHz or later / AMD Athlon 64FX, 2.6GHz or later	1.8GHz Power Mac G5 or 1.83GHz Intel Core Duo or later Macintosh
Windows XP service pack2/Vista	Mac OS 10.3.9 or later
Minimum 512MB RAM (1GB recommended)	Minimum 256MB RAM (1GB recommended)
nVIDIA Geforce 7600GT or later / ATI X1600 series or later	64MB video card

Samsung is not responsible for any defects or damages caused by the use of unauthorized computer including an assembled PC.

About the software

After inserting the CD-ROM provided with this camera into the CD-ROM drive, the following window should automatically run.



Samsung Master: This is the all-in-one multi media software solution.

You can download, view, edit and save your digital images and movie files with this software. It does not support H.264(MPEG4.AVC) movie clip. This software is only compatible with Windows.

■ QuickTime Player 7.5 : The movie viewing program

QuickTime Player is a movie viewing program and is provided for the Windows OS only.



- You should allow 5 10 seconds for running the automatic setup program according to the capability of your computer.
 If the frame does not show, run the [Windows Explorer] and select [Installer.exe] in the CD-ROM Drive.
- PDF documents of user manual are included in the Software CD-ROM supplied with this camera. Search the PDF files with Windows explorer. Before opening the PDF files, you must install the Acrobat Reader included in the Software CD-ROM. Install Adobe Reader from the CD provided. If the Internet is not enabled, install Adobe Reader by using the executable file located in the CD.
- To install the Adobe Reader 6.0.1 correctly, Internet Explorer 5.01 or later had to be installed. Visit "www.microsoft.com" and upgrade the Internet Explorer.

Setting up the application software

To use this camera with a PC, install the application software first.

After this has been done, the stored images in the camera can be moved to the PC and can be edited by an image editing program.

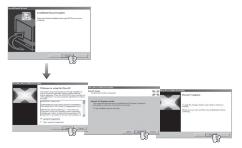
You can visit the Samsung web-site through the internet.

http://www.samsungcamera.com: English http://www.samsungcamera.co.kr: Korean

The auto run frame will display.
 Click the [Samsung Digital Camera Installer] menu in the Auto run frame.

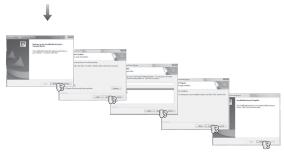


Install the DirectX by selecting a button shown on the monitor. If a latest version of DirectX was installed on your computer, DirectX may not be installed.



3. Install the Samsung Master in the order shown.





Setting up the application software

4. Install the QuickTime Player 7.5 in the order shown.







* QuickTime Player 7.5 cannot be installed under Window 2000.

- After restarting the computer, connect the PC to the camera with the USB cable.
- Turn on the camera power. The [Found New Hardware Wizard] will open and the computer will recognise the camera.
- * If your OS is Windows XP / Vista, an image viewer program will open.



Starting PC mode

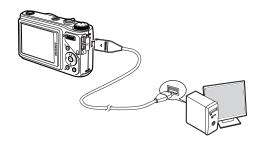
If you connect the USB cable to a USB port on your PC and then turn on the power, the camera will automatically switch to "computer connection mode". In this mode, you can download stored images to your PC through the USB cable.

Camera settings for connection

- 1. Turn on the camera
- 2. Connect the camera and computer with the supplied USB cable.
- Once the camera is turned on, the camera automatically recognizes the PC and is connected to it.

* If automatic connection fails, set the [USB] menu to [Computer]. (p.87)

■ Connecting the camera to a PC



■ Disconnecting the camera and PC

Refer to page 97 (Removing the removable disk).

Starting PC mode

Downloading stored images

You can download the still images stored on the camera to your PC's hard disk and print them or use a photo editing software to edit them.

- 1. Connect the camera to your PC with the USB cable
- On your computer's desktop display, select [My computer] and double click [Removable Disk → DCIM → 100SSCAM]. The image files will then be displayed.



3. Select an image and press the right mouse button.



- A pop-up menu will open.Click the [Cut] or [Copy] menu.
 - [Cut]: cuts a selected file.
 - [Copy]: copies files.



- **5.** Click a folder where you want to paste the file
- **6.** Press the right mouse button and a pop-up menu will open. Click [Paste].



7. An image file is transferred from the camera to your PC.





- We recommend that you should copy the images to the PC to view them. Opening images directly from the removable disk may be subject to unexpected disconnection.
- When you upload a file that is not taken by this camera to the Removable Disk, the [File Errorl] message will be displayed on the LCD monitor in the Play mode, and nothing is displayed in THUMBNAIL mode.

Removing the removable disk

■ Windows 2000/XP/Vista

(The illustrations may differ from those shown depending on the Windows O/S.)

- Check whether the camera and PC are transferring a file. If the camera status lamp blinks, please wait until the lamp has finished blinking and is constantly on.
- 2. Double-click the [Unplug or Eject Hardware] icon on the task bar.



Double-click!

The [Unplug or Eject Hardware] window will open. Select the [USB Mass Storage Device] and click the [Stop] button.



 The [Stop a Hardware device] window will open. Select the [USB Mass Storage Device] and click the [OK] button.



- **5.** A [Safe to Remove Hardware] window will open. Click the [OK] button.
- A [Unplug or Eject Hardware] window will open. Click the [Close] button and the removable disk will be removed safely.



7. Unplug the USB cable.

Samsung Master

You can download, view, edit and save your images and movies with this software. It does not support H.264(MPEG4.AVC) movie clip. This software is only compatible with Windows.

To run the Samsung Master, double click the Samsung Master icon on the desktop.

Downloading images

- 1. Connect the camera to your PC.
- A window for downloading images will display after connecting the camera to your PC.
 - To download the captured images, select the [Select All] button.
 - Select desired folder in the window and click the [Select All] button. You can save captured images and selected folder.
 - If you click the [Cancel] button, downloading will be cancelled.
- 3. Click [Next >] button.





- Select a destination and make a new folder in which to save downloaded images and folders.
 - Folder names can be made in order of date and images will be downloaded.
 - Folder name will be made as you want and images will be downloaded.
 - After selecting a folder that was made before, images will be downloaded.
- 5. Click [Next >] button.
- 6. A window will open as shown alongside. The destination of the selected folder will be displayed on the upper side of the window. Click the [Start] button to download the images.
- The second secon



7. Downloaded images will be displayed.



Samsung Master

Image viewer: You can view the stored images.



- Image viewer functions are listed below.
 - ① Menu bar: You can select menus. File, Edit, View, Tools, Change functions, Auto download, help, etc.
 - ② Image selection window: You can select the desired images in this window.
 - ③ Media type selection menu: You can select image viewer, image edit and movie edit functions in this menu.
 - Preview window: You can preview an image or a movie clip and check the multi media information.
 - (5) Zoom bar: You can change preview size.
 - (§) Folder display window: You can see the folder location of the selected image.
 - $\ensuremath{\mathfrak{T}}$ Image display window: Images of the selected folder are displayed.
- * Refer to the [Help] menu in Samsung Master for further information.

Image edit: You can edit the still image.



- Image edit functions are listed below.
 - 1) Edit menu: You can select the following menus.

[Tools]: You can resize or crop the selected image. See the [Help] menu.

[Adjust]: You can modify image quality. See the [Help] menu. [Retouch]: You can change image or insert effects on the image. See the [Help] menu.

- (2) Drawing tools: Tools for editing an image.
- (3) Image display window: A selected image is displayed in this window.
- 4) Preview window: You can preview the changed image.
- A still image edited with Samsung Master can't be played back on the camera.
- * Refer to the [Help] menu in Samsung Master for further information.

Samsung Master

 Movie edit: You can get the still image, movie clip, narration, music files together in a movie clip.



- Movie clip edit functions are listed below.
- ① Edit menu:You can select the following menus.

[Add Media]: You can add other media elements to a movie.

[Edit Clip]: You can change the brightness, contrast, colour and saturation

[Effects]: You can insert an effect.

[Set Text]: You can insert texts.

[Narrate]: You can insert a narration.

[Produce]: You can save the edited multi media as a new file name. You can select AVI, Windows media (wmv) and Windows media (asf) file types.

2) Frame display window: You can insert multi media in this window.

- Some movie clips that were compressed with a codec that is not compatible with the Samsung Master cannot be played back.
- * Refer to the [Help] menu in Samsung Master for further information.
- Samsung Master does not support the playback and editing for the H.264(MPEG4.AVC) movie clip.

Setting up the USB Driver for MAC

- A USB Driver for MAC is not included with the software CD as MAC OS supports the camera driver.
- Check the MAC OS version during start-up. This camera is compatible with MAC OS 10.3 or later.
- 3. Connect the camera to the Macintosh and turn the camera power on.
- A new icon will be displayed on the desktop after connecting the camera to the MAC.

Using the USB Driver for MAC

- Double click a new icon on the desktop and the folder in the memory will be displayed.
- 2. Select an image file and copy or move it to MAC.



 First complete uploading from computer to camera and then remove the removable disk with the Extract command.

Specifications

Image Senso	– Effec	- Type: 1/2.33" CCD - Effective Pixel: Approx. 10.2 Mega-pixel - Total Pixel: Approx. 10.3 Mega-pixel			
Lens	(35m - F No - Digita Still I	im film equivalent .: F3.3(W) ~ F5.8 al Zoom: mage mode: 1.0)	(T)		
Shake Reduc	* OIS	IS (OIS + DIS) (Optical Image Statistication)	abilization), DIS (D	igital Image	
LCD Monitor	- 2.7"	QVGA TFT LCD ((230,000 pixel)		
Focusing	– Type – Ranç	Focus, Selection	(Multi-AF, Center / n AF, Face Detect		
	Normal	Macro	Manual Focus	Auto Macro	

Wide	50cm ~ Infinity	5cm ~ 50cm	5cm ~ Infinity	5cm ~ Infinity
Tele	200cm ~ Infinity	100cm ~ 200cm	100cm ~ Infinity	100cm ~ Infinity
Shutter	ProgrManuNight	1/8 ~ 1/1,500 se ram: 1 ~ 1/1,500 ral: 16 ~ 1/1,500 scene: 8 ~ 1/1,500 rork: 4 sec	sec sec	

Exposure	 Control: Program AE or Manual Exposure Metering: Multi, Spot, Center-weighted, Face Detection AE Compensation: ±2EV (1/3EV steps) ISO: Auto, 80, 100, 200, 400, 800, 1600, 3200 (Up to 3M Size)
Flash	 Modes: Auto, Auto & Red-eye reduction, Fill-in flash, Slow sync, Flash off, Red-eye Fix Range: Wide: 0.3 ~ 4.7m, Tele: 0.5 ~ 2.7 m (ISO Auto) Controlling Flash Intensity: ±1EV (1/2 steps) Recharging Time: Approx. under 5 seconds (new battery)
Sharpness	- Soft+, Soft, Normal, Vivid, Vivid+
White Balance	 Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom
Voice Recording	Voice Recording (max 10 hours)Voice Memo in Still Image (max 10 sec.)
Date Imprinting	- Date, Date & Time, Off (user selectable)
Shooting	Still Image Mode: Auto, Program, Manual, DUAL IS, Beauty Shot, Nightscene, Scene Scene: Frame Guide, Portrait, Children, Landscape, Text, Close-up, Sunset, Dawn, Backlight, Fireworks, Beach & Snow, Self-Shot, Food, Café

 Shooting: Single, Continuous, High Speed, AEB, Motion Capture • Self-timer: 2 sec., 10 sec., Double (10 sec, 2 sec),

Motion Timer, Remote control (SRC-A5)

Specifications

- Movie Clip
 - With Audio or without Audio (user selectable, recording time: Memory capacity dependent, max 29min.)
 - Size: 1280x720HQ(30FPS & 15FPS), 1280x720(30FPS & 15FPS), 640x480(30FPS & 15FPS), 320x240(60FPS & 30FPS & 15FPS)
 - Movie Editing (Embedded):
 Pause during recording, Still Image Capture, Time Trimming

Storage

- Media
 - · Internal memory: 30MB
 - External Memory (Optional)
 MMC Plus (Up to 2GB guaranteed, 4bit 20MHz)
 SD (up to 4GB guaranteed)
 SDHC (up to 8GB guaranteed)
 - * Internal memory capacity is subject to change without prior notice.
- File Format
 - Still Image: JPEG (DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0
 - Movie Clip: MP4 (H.264(MPEG4.AVC))
 - · Audio: WAV

- Image Size and Capacity (1GB Size)

	Юм	49 m	7м	7M	5м	3м	[M
	3648x2736	3648x2432	3072x2304	3648x2056	2592x1944	2048x1536	1024x768
Super Fine	183	200	252	252	334	495	1238
Fine	334	362	442	445	578	814	1673
Normal	472	511	613	619	793	1067	1876

These figures are measured under Samsung standard conditions and may vary depending on shooting conditions and camera settings.

E Button

- Recording Effect:

Photo Style Selector: Normal, Classic, Calm, Cool, Retro, Forest, Vivid, Soft

Color Effect: Normal, B&W, Sepia, Red, Green, Blue, Negative, Custom Color

Image Adjust: Saturation, Contrast, Sharpness

- Playback Effect:

Image Edit: Resize, Rotate, Trimming

Color Effect: Normal, B&W, Sepia, Red, Blue, Green, Negative, Custom Color

Image Adjust: ACB, Red Eye Fix, Brightness, Contrast, Saturation, Face Retouch

Image Play

- Single image, Thumbnails, Slide show, Movie clip, Smart Album
 - * Slide show : Slide show with Effect & Music

Specifications

Interface	 Digital output connector: USB 2.0 High Speed 20 pin connector Audio: Stereo(Microphone), Mono(Speaker) Video output: NTSC, PAL (user selectable)
Power Source	 Rechargeable battery: SLB-10A, 3.7V (1,050mAh) Adaptor: SAC-47, CB20U05 DC Adapter: 4.2V, 20 pin connector Included battery may vary depending on sales region.
Dimensions (WxHxD)	- 105 X 61.4 X 36.5mm
Weight	 219g (without batteries and card)
Operating Temperature	- 0 ~ 40°C
Operating Humidity	- 5 ~ 85%
Software	 Application: Samsung Master, Quick Time Player 7.5, Adobe Reader

- * Specifications are subject to change without prior notice.
- * All trademarks are the property of their respective owners.

Important notes

Be sure to observe the following precautions!

- This unit contains precision electronic components. Do not use or store this unit in the following locations.
 - Areas exposed to extremes of in temperature and humidity.
 - Areas exposed to dust and dirt.
 - Areas exposed to direct sunlight or the inside of a vehicle in hot weather.
 - Environments where there is high magnetism or excessive vibration.
 - Areas with high explosives or highly flammable materials.
- Do not leave this camera in places subject to dust, chemicals (like naphthalene and mothballs), high temperature and high humidity. Keep this camera with silica gel in a hermetically sealed box when not planning to use the camera for a long period of time
- Sand can be particularly troublesome to cameras.
 - Do not let sand get inside the camera when using it on beaches, coastal dunes, or other areas where there is lots of sand.
 - Doing so may result in failure or may permanently render the camera unusable.

· Handling the camera

- Never drop the camera or subject it to severe shocks or vibrations.
- Protect the large size LCD monitor from an impact. When this camera is not used, keep it in the camera case.
- Avoid obstructing the lens or the flash when you capture an image.

Important notes

- This camera is not waterproof. To avoid dangerous electrical shocks, never hold or operate the camera with wet hands.
- If you use this camera in wet places, such as beach or pool, do not let water or sand get inside the camera. Doing so may result in failure or may permanently damage the unit.

Extremes in temperature may cause problems.

— If the camera is transferred from a cold to a warm and humid environment, condensation can form on the delicate electronic circuitry. If this occurs, turn the camera off and wait for at least 1 hour until all moisture is dispersed. Moisture built up can also occur on the memory card. If this happens, turn off the camera and remove the memory card. Wait until the moisture has dispersed before replacing the card in the camera.

Caution on Using the Lens

- If the lens is subjected to direct sunlight, it could result in the discoloration and deterioration of the image sensor.
- Take care not to get fingerprints or foreign substances on the surface of the lens.
- If the digital camera is not used for a long period, an electric discharge can occur. It is a good idea to remove the battery and the memory card if you do not intend using the camera for an extended period of time.
- If the camera is exposed to electronic interference, it will turn itself off to protect the memory card.

Camera Maintenance

- Use a soft brush (available from photo stores) to gently clean the lens and LCD assemblies. If this does not work, lens-cleaning paper with lens cleaning fluid can be used. Clean the camera body with a soft cloth. Do not allow this camera to come into contact with solvent materials such as benzol, insecticide, thinners etc. This may damage the body shell of the camera and also affect its performance. Rough handling can damage the LCD monitor. Take care to avoid damage and keep the camera in its protective carry case at all times when not in use.
- Do not attempt to disassemble or modify the camera.
- Under certain conditions, static electricity can cause the flash unit to fire. This
 is not harmful to the camera and is not a malfunction.
- When images are uploaded or downloaded, the data transfer may be affected by static electricity. In this case, disconnect and re-connect the USB cable before trying the transfer again.
- Before an important event or going on a trip, you should check the camera condition.
 - Take a picture for testing the camera condition and prepare extra battery.
 - Samsung cannot be held responsible for camera malfunctions.
- The temperature of the surface increases if the camera is used for prolonged periods of time. This doesn't affect the camera operation and is not a problem of the camera.
- If the digital camera is not used for a long period, the date and time may adopt the default settings by automatical battery discharged. In this case, reset the date and time correctly before the recording

Warning indicator

There are several warnings that may appear on the LCD display.

[Card Error !]

- · Memory card error.
 - → Turn off the camera power and turn it on again.
 - → Insert the memory card again.
 - → Insert and format the memory card. (p.83)

[Card Locked!]

- · The memory card is locked.
 - $\,\rightarrow\,$ SD/SDHC memory card: Slide the write protect switch to the top of the memory card.

[No Card!]

- · A memory card is not inserted.
 - → Insert the memory card.
 - → Turn off the camera power and turn it on again.

[No Image!]

- · There are no images stored on the memory.
 - → Take images.
 - → Insert a memory card that is holding some images.

[File Error!]

- · File error.
 - → Delete the file.
- · Memory card error.
 - → Contact a camera service centre.

[Low Battery!]

- · There is low battery capacity.
 - → Insert fresh batteries.

[Low Light!]

- · When taking pictures in dark places.
 - → Take pictures in Flash Photography mode.

[Out of Number]

- When selecting too many printing pages in the PictBridge menu.
 - → Select printing page within the limitation.

[DCF Full Error]

- · Violation of DCF format.
 - → Copy the images to a PC and format the memory.

Before contacting a service centre

Please check the following.

The camera doesn't switch on.

- · There is low battery capacity.
 - → Insert fresh batteries. (p.15)
- · Battery is inserted incorrectly with the polarities reversed.
 - → Insert the battery according to the polarity marks (+, -).

The camera power ceases while in use.

- · The battery is exhausted.
 - → Insert a fully charged battery.
- · The Camera is turned off automatically
 - → Turn on the camera power again.
- Operation has ceased in a low temperature outside of the camera usage temperature range.
 - → Remove the batteries from the camera. Warm the camera and battery by placing them in your pocket and then immediately before shooting, place the battery in the camera and then shoot.

The camera suddenly stops working while in use.

- · The camera stopped due to a malfunction.
 - → Remove /re-insert battery and switch the camera on.

The camera buttons do not operate.

- · Camera malfunction.
 - → Remove/re-insert battery and switch the camera on.

Camera does not take images when pressing the Shutter button.

- · There is insufficient memory capacity.
 - → Delete unnecessary image files.
- · The memory card has not been formatted.
 - → Format the memory card (p.83).
- · The memory card is exhausted.
 - → Insert a new memory card.
- · The memory card is locked.
 - → Refer to [Card Locked!] error message.
- · The camera's power is off.
 - → Turn the camera power on.
- · The battery is exhausted.
 - → Insert fresh batteries. (p.15)
- · Battery is inserted incorrectly with the polarities reversed.
 - → Insert the battery according to the polarity marks (+, -).

The images are unclear.

- · A picture was taken of a subject without setting an appropriate macro mode.
 - → Select an appropriate macro mode to take a clear image.
- Taking a picture beyond the flash range.
 - → Take a picture within the flash range.
- · The lens is smudged or dirty.
 - → Clean the lens.

Before contacting a service centre

The flash does not fire.

- · Flash off mode has been selected.
 - → Dis-engage flash off mode.
- · The camera mode can't use the flash.
 - → Refer to the FLASH instruction. (p.34-35)

Incorrect date and time is displayed

- The date and time have been set incorrectly or the camera has adopted the default settings.
 - → Reset the date and time correctly.

A card error has occurred while the memory card is in the camera.

- · Incorrect memory card format.
 - → Re-format the memory card.

The images don't play back.

- · Incorrect file name. (Violation of DCF format)
 - → Do not change the image file name.

Colour of image is different to the original scene.

- · White balance or effect setting is incorrect.
 - → Select appropriate White balance and effect.

Images are too bright.

- · Exposure is excessive.
 - → Reset exposure compensation.

Image distortion appears in the picture.

 The camera you have purchased uses a wide angle lens and this may cause image distortion. This is a special feature of the product.

No image on external monitor.

- · The external monitor has not been connected properly with the camera.
 - → Check the connection cables.
- · There are incorrect files in the memory card.
 - → Insert a memory card that has correct files.

When using the PC's explorer, the [Removable Disk] file does not show.

- · Cable connection is incorrect.
 - → Check the connection.
- · The camera is off.
 - → Turn the camera on.
- The operating system is not Windows 2000, XP, Vista / Mac OS 10.3.
 Alternatively the PC does not support USB.
 - → Install Windows 2000, XP, Vista / Mac OS 10.3 to PC that supports USB.

Before contacting a service centre

A part of the LCD screen does not occasionally turn on or a spot appears.

 Although the LCD screen is manufactured with high precision technology, the precision pixels are not occasionally lighted or the red, white and blue spots appear.

This phenomenon does not affect the quality of the recorded image and it is not a malfunction

A vertical line appears on the LCD screen when taking a picture of a bright object.

 If a subject is exposing bright lights, a gray, black, red or purple vertical line may appear.

This is a phenomenon called smear and it does not affect the quality of the recorded image. This is not a malfunction.

FAQ

Please check the following if the USB connection malfunctions.

Case 1

USB cable is not connected or it is not the supplied USB cable.

→ Connect the supplied USB cable.

Case 2

The camera is not recognised by your PC.

Sometimes, the camera may appear under [Unknown Devices] in Device Manager.

→ Turn off the camera, remove the USB cable, plug in the USB cable again, and then turn on the camera.

Case 3

There is an unexpected error during file transfer.

→ Turn the camera power off and on again. Transfer the file again.

Case 4

When using the USB hub.

→ There may be a problem in connecting the camera to the PC through the USB hub if the PC and the hub are not compatible. Wherever possible, connect the camera to the PC directly.

FAQ

Case 5

Are other USB cables connected to the PC?

→ The camera may malfunction when it is connected to the PC at the same time as another USB cable. In this case, disconnect the other USB cable, and connect only one USB cable to the camera.

Case 6

When I open the Device Manager (by clicking Start → (Settings)

- → Control Panel → (Performance and Maintenance) → System → (Hardware) → Device Manager), there are Unknown Devices or Other Devices entries with a yellow question mark(?) beside them or devices with an exclamation mark(!) beside them.
 - → Right-click on the entry with the question (?) or exclamation (!) mark and select "Remove". Restart the PC and connect the camera again.

Case 7

In some security programs (Norton Anti Virus, V3, etc.), the computer may not recognise the camera as a removable disk.

→ Stop the security programs and connect the camera to the computer. Refer to the security program instructions about how to temporarily disable the program.

Case 8

The camera is connected to the USB port located on the front of the computer.

→ When the camera is connected to the USB port located on the front of the computer, the computer may not recognise the camera. Connect the camera to the USB port located on the back of the computer.

■ When you can not playback the recorded movie clip on your computer.

** When you can not playback the recorded movie clip on your computer, it is mostly caused by the video codec installed on the computer.

[How to playback the H.264(MPEG4.AVC) movie clips]

- Using the QuickTime Player 7.5
 Install the "QuickTime Player 7.5" provided in the CD.
 (The QuickTime Player 7.5 supports the H.264(MPEG4.AVC) compression for videos.)
 - → Plays back using the "QuickTime Player 7.5".
- How to use with installing United Codec
 We recommend that install the latest United Codec. (Recommendable Codec: K-Lite Codec Pack Full latest version)
 - → Plays back using the "video player." (When installed K-lite codec with its full version, the Media Player Classic or Window Media Player 11 is recommended)
- * "QuickTime Player 7.5", "K-lite United Codec full version" should be installed in Windows ServicePack2 or later.
- ※ Although the computer is guaranteed as operated, the playback might be intermittent depending on an user's computer.

FAQ

■ When the DirectX 9.0c or later is not installed

- → Install the DirectX 9.0c or later
 - 1) Insert the CD provided with the camera
 - Run the windows explorer and select the [CD-ROM drive:\ DirectX] folder and click the DXSETUP.exe fi le. The DirectX will be installed. Visit the following site for downloading the DirectX.http://www. microsoft.com/directx
- If a PC connected with the camera stops responding while Windows is starting.
 - → In this case, disconnect the PC and the camera and Windows will start. If the problem happens continuously, set the Legacy USB Support to disable and re-start the PC. The Legacy USB Support is in the BIOS setup menu. (The BIOS setup menu differs from the PC manufacturers and some BIOS menus don't have Legacy USB Support) If you can't change the menu by yourself, contact to the PC manufacturer or BIOS manufacturer.

- If the movie clip can't be deleted, or the removable disk can't be extracted or an error message displays during the file transfer.
 - → If you install only the Samsung Master, the problems mentioned above occasionally happen.
 - Close the Samsung Master program by clicking the [Samsung Master] icon on the Taskbar.
 - Install all the application programs included in the software CD.
- When the screen ratio of movie player does not meet with monitor.
 - → If the resolution of monitor is smaller than the resolution of recorded movie clip, the screen ratio of movie player may not meet with monitor. Using the menu of movie player, you can adjust the screen ratio.

Correct Disposal of This Product



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems) This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



Samsung Eco-mark

It is Samsung's own symbol mark is used to effectively communicate Samsung's environmental friendly product activities to the consumers. The mark represents Samsung's continuous effort on development of environmental conscious products.

Correct disposal of batteries in this product



(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

The rechargeable battery incorporated in this product is not user replaceable. For information on its replacement, please contact your service provider.



Internet address - http://www.samsungcamera.com



The CE Mark is a Directive conformity mark of the European Community (EC)