



Capture memories, everyday.

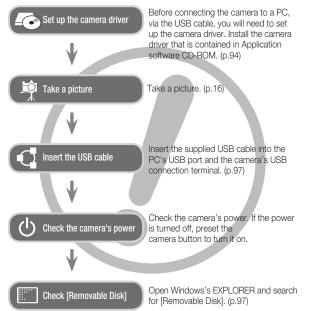
S85/D85 User Manual

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. ***** This manual is based on model S85.

ENGLISH

Instructions

Use this camera in the following order.



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 centre.
- 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 this manual in a safe place.
- 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 holds no responsibility for loss or damage of images on the memory card due to the use of a card reader.
- The contents and illustrations of this manual are subject to change without prior notice for upgrading the camera functions.
- *Microsoft, Windows and Windows logo are registered trademarks of Microsoft Corporation incorporated 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. To do so may result in fire, injury, electric shock or severe damage to you or your camera. internal inspection, maintenance and repairs should only 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 liquid 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 damaged 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. Otherwise the 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, if you are using the AC 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.
- Credit cards may be demagnetized if left near case. Avoid leaving magnetic strip cards near the case.
- Using an AC adapter that doesn't match with the camera specification may cause camera malfunction. We recommend supplied battery or exclusive rechargeable battery.

※ Available AC adapter :

⊕ ● Voltage: 3.3V, Amprer: 2.0A, Diameter (Ø): 2.35

 After turning on the camera, Check whether the battery type and the camera setting set on the [Setup] > [Battery Type] menu (p. 56) are same or not.

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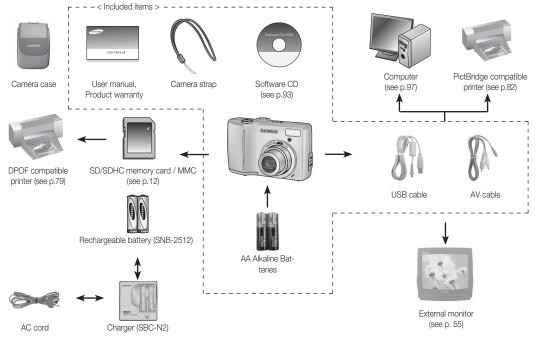
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System chart

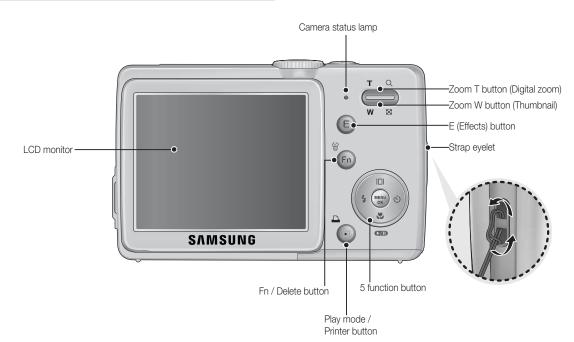
Please check that you have the correct contents before using this product. The contents can vary depending on the sales region. To buy the optional equipment, contact your nearest Samsung dealer or Samsung service centre.



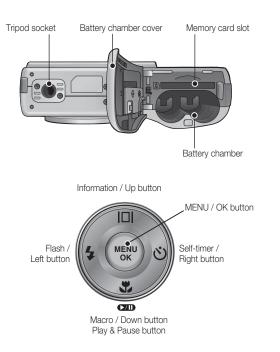
Front & Top







Bottom / 5-function button



Self-timer lamp

lcon	Status	Description
હં	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.
ڻ ^{2\$}	Blinking	For the 2 seconds, the lamp blinks quickly at 0.25-sec- ond intervals.
ల	Blinking	A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken.
((Č)))	Blinking	After pressing the Shutter button, the image is taken in accordance with the subject's movement.

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 a 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 is off		
When the printer is printing	The lamp blinks		
When the AF activates	The lamp turns on (The camera focus on the subject) The lamp blinks (The camera doesn't focus on the subject)		

Mode icon

ICON	SCENE	Q	Ċ) P	
MODE	SCENE	PORTRAIT	NIGHT	MOVIE	
ICON		G	(B))	Μ	
MODE	AUTO	PROGRAM	ASR	MANUAL	

Refer to page 16 for more information about the camera mode setting.

MODE	SCENE					
	Children	Landscape	Close-up	Text		
ICON			V	Τ		
MODE	Sunset	Dawn	Backlight	Fireworks		
ICON		*		ं		
MODE	Beach & Snow	Self-shot	Food	Cafe		
ICON	2		Ŷ	ŭ.		

Connecting to a Power Source

We recommend batteries for a digital camera (Within a year from the date of manufacture). The batteries are listed below.

- Non rechargeable batteries
- : 2 X AA Alkaline (High Capacity)
- Rechargeable batteries (Optional) : SNB-2512 (Ni-MH)
- SNB-2512 rechargeable battery Specification

Model	SNB-2512
Туре	Ni-MH
Capacity	2500mAh
Voltage	1.2V x 2
Charging time	Approximately 300 Minutes (Use for SBC-N2)

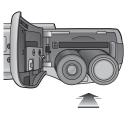
* Included battery may vary depending on sales region.



- 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

- Insert the battery as shown
 - If the camera does not turn on after you have inserted battery, please check whether the battery (+ / -).
 - When the battery chamber cover is opened, do not press the battery chamber cover by force. 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		•		Ū
Battery status	The battery is fully charged	Low battery ca- pacity (Prepare to recharge or use spare bat- tery)	Low battery ca- pacity (Prepare to recharge or use spare bat- tery)	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 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.56) 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.

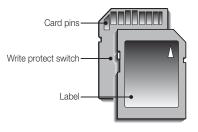
- If the memory card is subjected to any of the following, the recorded data may become corrupted :
 - When the memory card is used incorrectly.
 - If the power is switched off or the memory card is removed while recording, deleting (formatting) or reading.
- Samsung cannot be held responsible for lost 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.

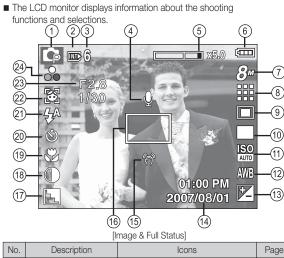
When using a 256MB MMC memory, the specified shooting capacity will be as follows. These figures are approximate as image capacities can be affected by variables such as subject matter and memory card type.

Recorded	0	Super Fine	Fine	Normal	30FPS	15FPS
	8"	57	103	180	-	-
	7-	68	115	206	-	-
Still	6-	84	134	233	-	-
image 5	93	158	271	-	-	
	172	265	425	-	-	
	1"	558	663	742	-	-
*Movie	640	-	-	-	About 3'36"	About 7'2"
clip	320	-	-	-	About 13'18"	About 25'38"

• The recording times can be changed by the zoom operation.

• The zoom button doesn't function during the movie recording.

LCD monitor indicator



INO.	Description	ICONS	Page
1	Recording mode	□ G ()) M (Q 2 ▲ V T = ¥ 2 () V 2 Q C X	p.11
2	Memory card icon / Internal memory icon		-
3	Number of available shots remaining	6	p.14
	Remaining time	00:00:00	p.14
4	Voice Memo	Ų	p.47

No.	Description	lcons	Page
5	Optical / Digital Zoom bar / Digital Zoom rate	x 5.0	p.22
6	Battery		p.12
7	Image Size	8" 77 6 5" 3" 1" 640 320	p.39
8	Image Quality / Frame Rate	30 15 7	p.39
9	Metering		p.40
10	Drive mode		p.40
11	ISO	ISO ISO ISO ISO ISO ISO ISO ISO Auto 50 1100 200 1400 1800 1600	p.42
12	White Balance	AWB 🜞 🌨 👾 👾 🌲 🔳	p.42
13	Exposure compensation	Z	p.43
14	Date / Time	2007/08/01 01:00 PM	p.52
15	Camera shake Warning	(m)	p.21
16	Auto Focus Frame		p.45
17	Sharpness / Without Sound	N N L / (1)	p.44/48
18	Contrast		p.45
19	Macro	# # @	p.24
20	Self-timer	స స ²⁵ స ^ల (స్ర్రీ)	p.28
21	Flash	\$^ • \$ \$ \$ 🕃 &	p.26
22	Face Recognition	S	p.46
23	Aperture Value / Shutter Speed	F2.8, 1/30	p.17
24	Color / Saturation	☞ \$ 8 6 8 () 0 / <mark>₀</mark>	p.31/33

RECORDING_ (15)

How to use the Auto mode (AUTO)

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

- 1. Insert the batteries (p.12). Insert the batteries taking note of the polarity (+ / -).
- Insert the memory card (p.12). As this camera has a 19MB internal memory, you do not need 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 rotating the mode dial.
- 6. Point the camera towards the subject and compose the image by using the LCD monitor.
- 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 unable to capture an image clearly.

How to use the Program mode (**PROG**)

Selecting the automatic mode will configure the camera with optimal settings. You can still manually configure all

functions except the aperture value and shutter speed.

- 1. Select the PROGRAM mode by rotating the mode dial.
- Press the Fn button to configure advanced functions such as Image Size (p.39), Quality (p.39), Metering (p.40), Drive mode (p.40), ISO (p.42), White Balance (p.42) and Exposure Value(p.43).







How to use the ASR mode (())) ASR)

Advanced Shake Reduction (ASR) mode.

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

- Things to watch out for using the ASR mode
- 1. The digital zoom will not operate in the ASR mode.
- If the lighting condition is brighter than fluorescent lighting conditions, the ASR will not activate.
- If the lighting condition is darker than in fluorescent lighting conditions, camera shake warning indicator () will display. For best results only take pictures in situations where the camera shake warning indicator () is not displayed.
- 4. If the subject is moving, the captured image may be blurred.
- 5. Avoid moving the camera while the [Capturing!] message is displayed to achieve a better result.
- As the ASR uses the camera's digital signal processor, it may take a little longer for the camera to process and save the images.



You can manually configure all functions aperture value and shutter speed.

- 1. Select the MANUAL mode by rotating the mode dial.
- Press the Fn button and menu for the shutter speed and aperture value will display.
 Up / Down button : changes aperture value Left / Right button : changes shutter speed.
- 3. Press the Fn button twice and take an image.





How to use the Scene modes (SCENE)

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

- 1. Select the Scene mode by rotating the Mode dial. (p.48)
- 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 mode	es are listed below.
[Children]	(2): 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.
[Text]	(T): Use this mode to shoot a document.
[Sunset]	(📄): For taking pictures of sunsets.
[Dawn]	(🎬): Daybreak scenes.
[Backlight]	(💽): Portrait without shadows caused by backlight.
[Firework]	(🔯): Firework scenes.
[Beach & Snow]	(🌠): For ocean, lake, beach and snowscape
	scenes.
[Self Shot]	((): Use when the photographer would also like to appear in the image.
[Food]	(👰): For taking delicious looking food.
[Cafe]	(👿): For taking pictures in cafes and restaurants.

How to use the Portrait mode (🔊)

Please select this mode for quick and easy picture with people's face. Select Face mode using mode dial.





How to use the Night mode (🔇

This mode helps to get a well-exposed pictures in the night time and darkness. Select Night mode using mode dial.



How to use the Movie clip mode (

A movie clip can be recorded for as long as the available recording time of the memory capacity allows.

- Select the Movie clip mode by rotating the Mode dial. (The Movie clip mode icon and available recording time will display on the LCD monitor.).
- Point the camera towards the subject and compose the image by using the LCD monitor.
- 3. Press the shutter button once and movie clips are recorded for as long as the available recording time allows. 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 : 640x480, 320x240 (Selectable)
 - Movie clip file type : AVI (MJPEG)
 - Frame Rate : 30FPS, 15FPS (Selectable)

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.
- 6. Press the Down button to select the [Voice Mute] menu and press the Right button.
- 7. Select the [On] menu by pressing the Up / Down button.
- 8. 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.

 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.

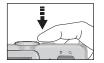


- 4. Press the Pause button (
- 5. Press the Pause button () again to resume the recording.
- 6. If you wish to stop recording, press the shutter button again.

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]

- 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 (^(m)) 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.
- Shooting against the light : Please do not take pictures against the sun.

Doing so may make the picture dark. To take a picture against the light, please use the [BACKLIGHT] in the scene shooting mode (see page 18), fill-in flash (see page 26), spot metering (see page 40), or exposure compensation (see page 43).

- 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.

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 54 for more information about the auto power off function.



SAMSUM

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 button

If the menu is not displayed, this button works as the OPTICAL ZOOM or DIGITAL ZOOM button.

This camera has a 5X optical zoom and a 5X digital zoom function. Using both will offer a total zoom ratio of 25X.

TELE Zoom

Optical zoom TELE

Digital zoom TELE



- : Pressing the ZOOM T button. This will zoom into the subject i.e. the subject will appear nearer.
- : When the maximum (5X) optical zoom is selected, pressing the ZOOM T button activates the digital zoom software. Releasing ZOOM T button stops the digital zooming at the required setting. Once the maximum digital zoom (5X) is achieved, pressing the ZOOM T button will have no effect.







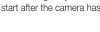


[Digital zoom 5.0X]

[WIDE zoom]

[TELE zoom]





ZOOM W / T button

WIDE Zoom Optical zoom WIDE



: Pressing the ZOOM W button. This will zoom out from the subject i.e. the subject will appear further away. Pressing the ZOOM W button continuously will set the camera to its minimum zoom setting i.e. the subject appears at its furthest from the camera.





[Optical zoom 2X]



[WIDE zoom]

Ø

Digital zoom WIDE



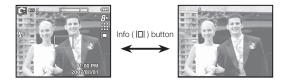
: When the digital zoom is in operation, pressing the ZOOM W button will reduce the digital zooming in steps. Releasing ZOOM W button stops digital zooming. Pressing the ZOOM W button will reduce the digital zoom and then it will continue to reduce the optical zoom until the minimum setting is reached.



- Images taken using the digital zoom may take a little longer for the camera to process. Allow time for this to take place.
- The digital zoom cannot be used in movie clip shots.
- 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 some Scene modes (Children, Text, Close-up, Fireworks, Self-Shot, Food), Night mode, Motion Capture mode, ASR mode, movie clip mode and Face recognition.
- Take care not to press the lens as this may cause a camera malfunction.

Info (IDI) / Up button

While the menu is showing, the Up button operates as a direction button. In the recording modes or playback mode, pressing this button will display the image information.



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.



[Auto Focus]



[Macro (😍)]



[Auto Macro (💭)]



[Super Macro (🔍)]

Macro (🖏) / Down button

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

Mode	Auto (🖸)					
Focus Type	Auto macro (🛔	2)	Normal			
Focus range	W : 5 ~ Infinit T : 50 ~ Infini	, ,	W : 80 ~ Infinity T : 80 ~ Infinity			
Mode		Program	gram (💽)			
Focus Type	Super macro (🔍) macro		o (😍)	Normal		
Focus range	W : 1 ~ 5 (Wide only)		5 ~ 80 0 ~ 80	W : 80 ~ Infinity T : 80 ~ Infinity		
Mode		ASR Mo	de (🕘)			
Focus Type	Auto macro (≵) W : 5 ~ 80 T : 50 ~ 80		Normal			
Focus range			W : 80 ~ Infinity T : 80 ~ Infinity			



• When the macro mode is selected, be particularly careful to avoid camera shake.

- When you take a picture within 40cm (Wide zoom) or 50cm (Tele zoom) in the Macro mode, select the FLASH OFF mode.
- When you take a picture within the 10cm Super macro range, the auto-focus on the camera will take longer to set the correct focus distance.

Available focusing method, by record	ding mode
(0)	: Selectable. ∞ : Infinity focus range)

Mode	Auto macro	Super macro	Macro	Normal			
	0			0			
Ģ		0	0	0			
()	0			0			
М		0	0	0			
Q				0			
Ċ				0			
, 22			0	0			
Mada	SCENE						
Mode	Auto macro	Super macro	Macro	Normal			
				0			
				∞			
			0				
Τ	0						
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
<b>*</b>				$\infty$			
				0			
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2				0			
			0				
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Ŭ				0			

RECORDING_ (25)

## 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.





1. The image to be captured.

2. Press the SHUT-TER button



Press the SHUT- 3 TER button halfway and focus on the subject.

3. Recompose the picture and fully depress the SHUTTER button.

## 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 LEFT button operates as the FLASH button.



[Selecting the Auto flash]

- Selecting the flash mode
- 1. Press the Mode button to select a RECORDING mode with the exception of the Movie clip mode or the ASR mode.
- Press the Flash button until the desired flash mode indicator is displayed on the LCD monitor.
- 3. A flash mode indicator will be displayed on the LCD monitor. Use the correct flash to suit the environment.

Flash range

(Unit: m)

100	Nor	mal	Macro		Auto macro	
ISO	WIDE	TELE	WIDE	TELE	WIDE	TELE
AUTO	0.8 ~ 3.0 0.8 ~ 2.5		0.4 ~ 0.8	0.5 ~ 0.8	0.4 ~ 3.0	0.5 ~ 2.5

 $\ensuremath{\mathbbmm}$  When the Super Macro is selected, flash is fixed as the Flash Off mode.

# 02 RECORDING

## Flash ( 4) / Left button



 If you press the shutter button after selecting the Auto, Fill-in, Slow synchro 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.

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 ASR mode, [Landscape], [Close up], [Text], [Sunset], [Dawn], [Firework], [Self Shot], [Food], [Cafe] 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 mode indicator

lcon	Flash mode	Description
<b>4</b> A	Auto flash	If the subject or background is dark, the camera flash will operate automatically.
٢	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	The flash fires regardless of the available light. The intensity of the flash will be automatically controlled to suit the prevailing conditions.	
Ľ\$ ₽	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 display on the LCD monitor.
\$	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 a poorly lit condition, the camera shake warn- ing indicator ( () will appear on the LCD monitor.
ć	Red-eye reduction	When a shot with "red eye" is detected, this mode will reduce the red-eye effect automatically.

## Flash ( 🞝 ) / Left button

■ Available flash mode, by recording mode

( o : Selectable)

Mode	<b>4</b> A	٢	4	<b>4</b> ^s	3	ć
	0	0			0	0
Ģ	0	0	0	0	0	0
<b>(</b> )					0	
Μ			0		0	
		0			0	0
Ċ				0	0	0
, e					0	
Mode			SCI	ENE		
IVIOUE	<b>4</b> A	٢	4	4 ^s	<b>(5)</b>	Ś
		0			0	0
					0	
					0	
Τ					0	
					0	
<b></b>					0	
			0			
<u></u>					0	
<b>1</b>	0					
					0	
Ŷ					0	
Ŭ					0	

## 

When the menu is displayed on the LCD monitor, pressing the Right button makes the cursor shift to the right tab.

When the menu is not displayed on the LCD monitor, the RIGHT button operates as the Self-timer ( $\circlearrowright$ ) 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.

Ø

- Use a tripod to prevent the camera from shaking.
- In Movie Clip mode, only the 10SEC self-timer will work.

## 

#### Selecting the self-timer

- 1. Rotate the Mode dial to select a RECORD-ING mode with the exception of VOICE RECORDING mode.
- Press the SELF-TIMER () button until the desired mode indicator displays on the LCD monitor. A 10 second, 2 second, Double selftimer or Motion timer icon appears on the LCD monitor.
- When you press the SHUTTER button, the picture will be taken after the specified time has elapsed.

#### Self-timer mode indecator

lcon	Mode	Description
ঙ	10SEC self-timer	Pressing the shutter button will allow an interval of 10 seconds before the image is taken.
ં ^{2\$}	2SEC self-timer	Pressing the shutter button will allow an interval of 2 seconds before the image is taken.
ల	Double self-timer	A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken. When using the flash, the 2-second self- timer may be delayed for longer than 2 seconds depending on the flash charging time.
(č))	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.





[Selecting the 10 SEC self-timer]

#### Motion Timer

Motion	Icon & Self-timer lamp
Pressing the Shuter button after setting the Motion Timer	Blink (0.5 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 followings. (Night mode or Fireworks mode excluded)

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

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

*2: Move your body or hands fully.

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 out of the center part (50%) of the sensor where the movement is recognized.

The detection range of Motion Timer



## 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 option can be displayed when the following are selected : MOVIE CLIP and STILL IMAGE mode. There is no menu available when the VOICE RECORDING mode is selected.



#### 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.

## E (Effect) button

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

- Still image mode : You can select the colour, special colour, image editing and Fun menu. In the Auto mode, you can select the [COLOR] menu only.
- Movie clip mode : You can select the colour menu.
- Available Effects, by recording mode

( o : Selectable)

$\searrow$	,°°	Ô	Ģ	Μ						Ŷ	۳.
•	0	0	0	0	0	0	0	0	0	0	0
¥			0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0
Ð			0	0	0	0	0	0	0	0	0

• This button will not operate in ASR, Voice recording mode and some scene modes (Night, Text, Sunset, Dawn, Backlight, Fireworks, Beach&Snow).

- Even if the camera is turned off, the effect setting will be preserved. To cancel the special effect, select (NOR) sub menu in the Colour menu and select the (OFF) sub menu in the rest effect menus.
- If the image size is ( 🔂 ) or , ( 🔂 ) the FUN menu can't be selected.

## E (Effect) button : Colour

By using the camera's digital processor, it is possible to add special effects to your images

■ Press the E button in an available recording mode. (p.30)





[Still image mode]

[Movie clip mode]

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

lcon	Description
NOR	No effect is added to the image.
BW	Captured images will be stored in black and white.
6	Captured images will be stored in a sepia tone (a gradient of yellowish brown colours).
R	Captured images will be stored in a red tone.
G	Captured images will be stored in a green tone.
₿	Captured images will be stored in a blue tone.
	Save the image in negative mode.
C	Captured image will be saved in set RGB tone.

■ 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



OK

🙄 🎸 📖 🙂

OK

* In the Auto mode, the Custom Color can't be selected.

02 RECORDING

2. Press the shutter button to capture an image.

## E (Effect) button : Colour Mask

With this menu, you can select a part you want to highlight. The rest of the image will be black and white.

Press the E button in an available recording mode. (p.30)



Press the OK button and the Mask mark will be displayed on the LCD monitor.





Press the En button. You can change the size and locaton of the mask.



Zoom W / T button : Changing the Mak size



Up/Down/Left/Right button: Moving the mask





[Final image]



Press the Shutter button the mask added image is taken.



[Mask added image]

Press the Fn button.



## E (Effect) button : Saturation

You can change the saturation of the image.

Press the E button in an available recording mode. (p.30)





Select Saturation menu (  $\bigcirc$  ) and a bar for changing the saturation will be displayed.



Bar for changing the saturation



+ direction: High saturation (The colour will be intense) - direction: Low saturation (The colour will be subtle)



•

Press the Shutter button to take a picture.



Press the OK button and the saturation of image will be changed.

Change the saturation by pressing

the Left/Right button.

## E (Effect) button : FUN

#### Pre-set focus frame

You can make the subject stand out from its surroundings. The subject will be sharp and in focus while making the rest out of focus.

Press the E button in an available recording mode. (p.30)





1. Select a proper menu by pressing the Left/Right button and press the OK button.





[Range 1]





-



⊕ | √ | □□□

 The preset focus frame will appear. Press the shutter button to capture an image.



Moving and changing the focus frame You can change the focus frame after selecting a Range menu.







[Point the camera towards the subject and compose the image by using the LCD monitor.]

[The range is activated : The colour of focus frame turns white.]

Pressing the Up/Down/ Left/Right button



Pressing the shutter button





[After changing the range]



[Final image]

## E (Effect) button : FUN

#### Composite shooting

You can combine 2 ~ 4 different shots in a still image.

Press the E button in an available recording mode. (p.30)





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



2. After selecting a desired menu, press the shutter button to take a picture.

#### * Selecting 2 composite shots



[Ready for taking]

Pressina the shutter button



[[]First shot]







[The final picture]

[Second shot]

After taking the last image, press the OK button to save the image.

- - You can use the flash, self-timer, macro focus and the Zoom W / T button during the composite shooting.
  - If you press the Play mode, MENU, E button or turn Mode dial during the composite shots, each camera working mode is executed. The previously captured images will be deleted.

- Changing a part of composite shot before taking the last shot Before taking the last composite shot, you can change a part of composite shot.
- 1. During the composite shots, press the Fn button.
- 2. A previous image will be deleted and new frame will be displayed. To delete a previously taken image, press the Fn button again.







[Before taking the 3rd shot]

Moving backward to the 2nd shot]

Ĭ

3. Press the shutter button to capture a new image.

- Changing a part of composite shot after taking the last shot
- 1. After taking the last shot, a cursor to select a frame will appear. Press the Up/Down/Left/Right button to select the frame.
- 2. Press the Fn button and an image will be deleted. Composite frame will be activated.
- 3. Press the Shutter button. You can take other images again by using the Press the Up/Down/Left/Right button and Fn button.
- 4. Press the OK button again to save the captured image.



Pressing the up button



[Moving backward to the 2nd shot]



Pressing the Shutter button

[Taking 2nd shot again]





Pressing the OK button







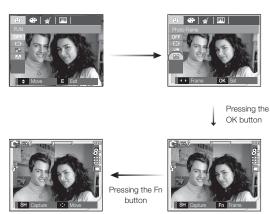
**《36》 RECORDING** 

#### Photo Frame

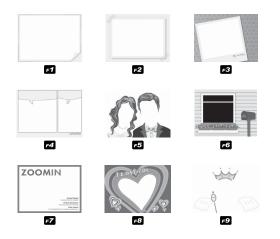
You can add 9 types of frame-like borders to a still image you want to capture.

Date & Time information will not be printed on the stored image taken with Photo Frame menu.

■ Press the E button in an available recording mode. (p.30)



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



2. The selected photo frame will be displayed. Press the shutter button to take a picture.

### Fn button

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

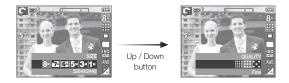
		<b>C</b>	(B))	Μ	SCENE		Ċ	,°°	Page
Size	0	0	0	0	0	0	0	0	p.39
Quality/ Frame rate	0	0	0	0	0	0	0	0	p.39
Metering		0		0				0	p.40
Drive		0	0	0	^{*1} 0				p.40
ISO		0		0					p.42
White Balance		0		0				0	p.42
EV		0						0	p.43

*1. This menu is only available in the Children scene mode ( 2 ).

( o : Selectable)

#### How to use the Fn menu

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



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

Left / Right

button



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### Size

Ø

(Unit: pixel) **7**″ 6" 5∞ 3∞ **1**M Icon 8≝ Still image 3264 x 3264 x 3264 x 2592 x 2048 x 1024 x mode Size 2448 2176 1824 1944 1536 768 640 320 lcon Movie clip mode 640 x 480 320 x 240 Size

You can select the image size appropriate for your application.



[ STILL IMAGE mode ]

- [ MOVIE CLIP mode ]
- The higher the resolution, the lower the number of shots available because high resolution images require more memory.

### Quality / Frame rate

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

Mode	ST	ILL IMAGE mo	MOVIE CLIPO mode		
lcon			$\sim$	30 ₽	15 F
Sub menu	Super Fine	Fine	Normal	30FPS	15FPS
File Format	jpeg	jpeg	jpeg	avi	avi



[ STILL IMAGE mode ]

[ MOVIE CLIP mode ]

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

V

• 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.

### Metering

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

[Multi] : 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 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.
- [Center] : 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 object like a flower 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.

### Drive mode

[Sinale]

[AEB]

[Continuous]

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

: Take one picture only.

#### : Images will be taken continuously until the shutter button is released.

[Motion Capture] : This takes 7 shots per second, when the shutter is



pressed and held down. After completing the continuous shooting, images are saved and the images play back on the Rear LCD. The maximum number of shots is 30 and the image size is fixed as VGA.

- : Take three pictures in a series in different exposures: short exposure (-1/3EV), standard exposure (0.0EV), and over exposure (+1/3EV).
- [Wise Shot] : Two images are taken at a time. One is taken in the Fill-In Flash mode and the other is taken in the ASR mode.

### Drive mode

- How to use the wise shot
- 1. Select the ASR mode by rotating the mode dial.
- 2. Select the wise shot in the [DRIVE] menu.
- 3. Press the Shutter button to take i mages.
- 4. The captured images are displayed.
  - To select an image, press the Left/Right button.





- Press the E button and you can check the enlarged image by pressing the 5 function button.
- Press the E button again and the image is enlarged automatically.
- You can zoom in and out the enlarged image area by using the W/T button.
- 5. Press the OK / Shutter button and the selected image will be saved.

- Ľ
- High resolution and picture quality increases file saving time, which increases stand-by time.
- If the [Continuous]. [Motion Capture] or [AEB] sub menu is selected, the flash will be off automatically.
- If less than 3 pictures are available in the memory, the AEB shooting 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 the Wise shot mode, the shutter speed value shown on the LCD monitor may be different to the actual shutter speed.
- If ( ) or ( ) image size is selected, the Wise Shot menu can't be selected.

### ISO

You can select the ISO sensitivity when taking pictures. The speed or specific light-sensitivity of a camera is rated by ISO numbers.

[Auto] : The camera's sensitivity is automatically changed by variables such as lighting value or subject brightness.



[ISO 50, 100, 200, 400, 800, 1600 ] :

You can increase the shutter speed while the same 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.

### White balance

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



Mode	lcon	Description
Auto WB	AWB	The camera automatically selects the appropriate white balance settings, depending on the prevailing lighting conditions.
Daylight	*	For taking images outside.
Cloudy		For taking images under a cloudy and overcast sky.
Fluorescent_H		For shooting under daylight fluorescent types of three-way fluorescent lighting.
Fluorescent_L		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 condition.

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

### 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 ( ) 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.



2. MENU/OK button : selects previous custom white balance.

Shutter button : saves new custom white balance.

White paper

- 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.

### Exposure compensation

This camera automatically adjusts the exposure according to the ambient lighting conditions.

You can also select the exposure value by using the Fn button.

#### Compensating Exposure

 Press the Fn button, and then use the UP and DOWN buttons to select the exposure compensation icon ( ☑).

The exposure compensation menu bar will appear as shown.



- 2. Use the LEFT and RIGHT buttons to set the desired exposure compensation factor.
- Press the Fn button again. The value you set will be saved and the Exposure Compensation setup mode will close. If you change the exposure value, the exposure indicator ( 2) will be displayed on the bottom of the LCD monitor.
- ※ A negative exposure compensation value reduces the exposure. Note that a positive exposure compensation value increases the exposure and the LCD monitor will appear white or you may not get good pictures.

### 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.

Mode	Menu		Sub	men	u	Available mode	Page
		Soft+		Soft			
	Sharpness	Normal		Vivid		Cβ M	p.44
		Vivid+		-			
	Contrast	High		High N		Ср М	p.45
	Contrast	Low		-			p.45
	Auto Focus	Face Rec- ognition		Center AF		[] [] [] [] [] [] [] [] [] [] [] [] [] [	p.45
Ď		Multi AF		-			p.40
(Recording)	Voice Memo	Off			On	0 ⊈ ⊛ M C 0 ⊉ ▲ ¥ T	p.47
	Voice Record			-			p.47
	Voice Mute	Off			On	옗	p.48
	0	CHILDREN	LANDS	SCAPE	CLOSE UP		
		TEXT	SUNSET		DAWN	<ul> <li>2 ▲ ♥ T =</li> <li>※ № Ø</li> </ul>	p.48
	Scene mode	BACKLIGHT	FIREWORK		BEACH8SNOW	Ţ <u>▲</u> ▶. <u>▲</u>	p.40
		SELF SHOT	FO	OD	CAFÉ		

### Recording ( 🗖 )

#### Sharpness

You can adjust the sharpness of the picture you are about to take. You cannot check the sharpness effect on the LCD monitor before you take a picture, because this function is applied only when the captured image is stored on the memory.



- [Soft+]/ [Soft] : The edges of the image are softened. This effect is suitable for editing images on your PC.
- [Normal] : The edges of the image are sharp. This is suitable for printing.
- [Vivid]/ [Vivid+] : The edges of the image are emphasized. The edges will appear sharp, but noise may occur in the recorded image.

* Menus are subject to change without prior notice.

# Recording (

#### Contrast

You can set the difference between bright part of the image and dark part of the image.

- [High] : The image contrast is high.
- [Normal] : The contrast is normal.
- [Low] : The image contrast is more subtle.

Sharpness
Contrast   High
Auto Focus   Normal
Voice Memo 🔸 Low
Voice Record
Back     OK     Set

#### Auto Focus type

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



- [Face Recognition] : The size and position of the focus frame is set at the face of the subject automatically.
- [Center AF] : The rectangular area in the center of the LCD monitor will be focused
- [Multi AF] : This camera selects all of available AF point from the 9 AF points.





[Multi AF]

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.

# Recording ( 🗖 )

- Face Recognition(FR): This mode detects the face position of the subject automatically and then sets the focus and exposure. Select this mode for quick and easy face picture.
- Selectable modes: Auto, Program, ASR, Manual, Scene modes (Portrait, Children, Beach & Snow, Self-shot, Cafe)
- Press the FR(Face Recognition) button
   ( 2) in the selectable modes. The FR icon will be displayed on the screen left side.



2. The size and position of the auto focus frame is set at the face of the subject automatically.



- 3. Press the shutter button halfway. The focus frame turns to green when the focus is activated.
- 4. Press the shutter button fully to take a picture.

- This function can detect up to 9 persons.
  - When the camera recognises many people at the same time, it will focus on the nearest person.
  - The Digital zoom is not activated in this mode.
  - The effects functions are not activated in this mode.
  - When the camera detects a target face, the white colour focus frame will be displayed over the target face and the gray colour focus frame appear over the remaining faces(up to 8). Press the shutter button halfway down to focus on the face and the white focus frame turns green.(Total 9)
  - Return to previous AF mode if face detection was failure.
  - In some conditions this function cannot work properly.
  - When a person wears dark glasses or some part of the face is hidden.
  - When the person being taken does not look at the camera.
  - Camera doesn't detect a face as the brightness is too dark or too bright.
  - The distance between the camera and object are far.
  - The maximum available Face Recognition range is 2.5m (Wide).
  - The nearer the subject, the faster the camera can recognize the subject.

# Recording ( 🗖 )

#### 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 middle 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 : *.wav



[Voice recording mode]

# Recording (

#### Voice Recording

- Pausing while recording a voice Using this function, you can record your favourite voice clips into a voice recording file without having to create multiple voice recording files.
- 1. Press the Pause button ( Define the pause recording.

00:00:07

[Voice recording mode]

- 2. Press the Pause button ( 20) 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 [On] of [Voice Mute] menu in the Movie clip mode. ( ()) 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 18 for more information.



# 03 SETUP

### 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 items indicated by

are default settings.

Mode	Menu	Sub Menu	Available mode	Page
		Off	D G G G G G M C	
	Volume	Low	🔍 👷 🔺 🖑 T	p.49
	volume	Medium		p.49
		High		
		Off	0 Q 🛞 M C	
	Start Sound	Sound 1	Q 2 A 3 T	p.49
	Start Sound	Sound 2	÷ ≝ ≦ ⊚ 1% 2 9 ± 44	p.49
		Sound 3		
		Off	<u>с</u> С С С С С С С С С С С С С С С С С С С	
	Shutter Sound	Sound 1	0 2 🔺 🖑 T	p.49
(Sound)		Sound 2		p.45
		Sound 3		
		Off	0 G 🐵 M ୯	
	Beep Sound	Sound 1	🔍 😤 🔺 🖑 T	p.50
	Deep Sound	Sound 2		p.50
		Sound 3		
	45.0	Off	D IQ ⊕ M C S 2 ▲ 5 T	n 50
	AF Sound	On	● ♥ ½ ◎ K ▲ ¶ 単 µ2	p.50

# Sound (

#### Volume

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

- [Volume] sub menu : [Off], [Low], [Medium], [High]



#### Start up sound

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

- Start up sound : [Off], [Sound 1], [Sound 2], [Sound 3]
- If the start up image is set to [Off], the start up sound will not activate, even though you may have set these to on.

Volume	P	
		Off
Shutter Sound	Þ	Sound 1
Beep Sound	P	Sound 2
AF Sound	Þ	Sound 3

#### Shutter sound

You can select the shutter sound. - Shutter sound : [Off], [Sound 1], [Sound 2], [Sound 3]



# Sound ( 🔳 )

#### Beep Sound

If you set sound to ON, various sounds will be activated for camera startup, when buttons are pressed, so that you can be aware of the camera operation status.

- [Beep Sound] sub menu : [Off], [Sound 1, 2, 3]

	12
Volume 🔸	
Start Sound	
Shutter Sound 🔹 🕨	Off
	Sound 1
AF Sound ►	Sound 2
	Sound 3
<ul> <li>Back</li> </ul>	OK Set

#### AF sound

If you set AF sound to ON, AF sound will be activated when a subject is focused so that you can be aware of the camera operation status.

- [AF sound] sub menu : [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 items indicated by are default settings.

Mode	Menu	Sub menu				Page	
	File	Reset		Series		p.51	
		ENGLISH	한국어		FRANÇAIS		
		DEUTSCH	ESPAÑOL		ITALIANO		
		简体中文	繁體中文		РУССКИЙ		
	Language	PORTUGUÊS	DU.	тсн	DANSK	p.52	
		SVENSKA	SU	OMI	ไทย		
		BAHASA	يي	عري	Čeština		
		POLSKI	Ма	gyar	Türkçe		
Date & Tin		yy/mm/dd		mm/dd/yy		p.52	
1	Date & Time	dd/mm/yy		Off		p.02	
(Setup		London		Rome,Paris,Berlin		n 50	
menu 1)		Athens. Helsinki		Moscow			
		Teheran		Abu Dhabi			
		Kabul		Tashkent			
	World Time	Mumbay, New Delhi		Kathmandu			
	wond nine	Almaty		Yangon		p.52	
		Bankok, Jakarta		Beijing, Hong Kong			
		Seoul, Tok	уо	Darwin, Adelaida			
		Guam, Sydr	ney	Okhotsk			
		Wellington, Au	ckland	San	noa, Midway		

### Setup menu

Mode	Menu	Sub r	nenu	Page	
		Honolulu, Hawaii	Alaska		
		LA, San Francisco	Denver, Phoenix	p.52	
	World Time	Chicago, Dallas	New York, Miami		
	wond nine	Caracas, La Paz	Newfoundland		
		Buenos Aires	Mid-Atlantic		
1		Cape Verde -			
( Setup	Imprint	Off	Date	p.53	
menu 1)	Imprint	Date&Time	-	p.55	
	LCD	Dark	Normal	p.53	
	LOD	Bright -		p.00	
	AF Lamp	Off On		p.53	
	Start Image	Off	Logo	p.53	
	Start Image	User Image	-	p.00	
	Quick View	Off Off		p.54	
	QUICK VIEW	1 sec	3 sec	p.54	
		Off	1 min		
	Power Off	3 min	5 min	p.54	
12		10 min	-		
(Setup	LCD Save	Off	On	p.54	
menu 2 )	Video Out	NTSC	PAL	p.55	
	Format	No	Yes	p.56	
	Reset	No	Yes	p.56	
	Battery Type	Alkaline	Ni-MH	p.56	

# Setup menu 1 ( 🖍 )

#### File name

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

[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  $\ensuremath{\mathsf{SN850001}}$  .
- File names are assigned sequentially from SN850001  $\rightarrow$  SN850002  $\rightarrow$   $\sim$   $\rightarrow$  SN859999.
- The folder number is assigned sequentially from 100 to 999 as follows: 100SSCAM  $\rightarrow$  101SSCAM  $\rightarrow$  ~  $\rightarrow$  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.

* Menus are subject to change without prior notice.

# Setup menu 1 ( 🖍 )

#### 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.

- LANGUAGE sub menu
  - : English, Korean, French, German, Spanish, Italian, S.Chinese, T.Chinese, Russian, Portuguese, Dutch, Danish, Swedish, Finnish, Thai, Bahasa (Malay / Indonesian), Arabic, Czech, Polish, Hungarian and Turkish.

🖸   ┥   🖌 SETUP 1	4	12
File	Þ	ENGLISH
Language		한국어
Date&Time	Þ	FRANÇAIS
World Time	Þ	DEUTSCH
Imprint	Þ	ESPAÑOL
LCD	Þ	ITALIANO
<ul> <li>Back</li> </ul>		OK Set

#### 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.

- Date type : [yy/mm/dd], [mm/dd/yy], [dd/mm/yy], Off],



#### World Time

The date and time selected in the [Date&Time] serve as the date and time of your present location. Setting [World Time] enables you to display the local date and time on the LCD monitor when travelling overseas.

#### - Available cities:

London, Cape Verde, Mid-Atlantic, Buenos Aires, Newfoundland, Caracas, La Paz, NewYork, Miami, Chicago, Dallas, Denver, Phoenix, LA, Sam Francisco, Alaska, Honolulu, Hawaii, Samoa, Midway, Wellington, Auckland, Okhotsk, Quam, Sydney, Darwin Adelaide, Seoul, Tokyo, Beijing, Hon Hong,



Bankok, Jakarta, Yangon, Almaty, Kathmandu, Mumbai, New Delhi, Tashkent, Kabul, Abu Dhabi, Teheran, Moscow, Athens, Helsinki, Rome, Paris, Berlin

# Setup menu 1 ( $\checkmark_1$ )

#### 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 except for the images taken in photo frame effect mode.
- Depending on the manufacturer and print mode, the date printed on an image may not be printed correctly.

#### LCD brightness

You can adjust the LCD brightness.

- Sub menus : [Dark], [Normal], [Bright]



#### 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.



#### Start up image

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

- Sub menus : [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



# Setup menu 2 ( 🖍 2 )

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

0 4 1	i	12
		Off
Power Off	Þ	0.5 sec
LCD Save	Þ	1 sec
Video Out	Þ	3 sec
Format	Þ	
Reset	Þ	
<ul> <li>Back</li> </ul>		OK Set

#### 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] : The power off function will not operate.
- [1, 3, 5, 10 min] : The power will turn off automatically if not used for the period of time specified.



- 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.

#### LCD save

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

- Sub menus

[On]

- [Off] : The LCD monitor will not be turned off.
  - : If the camera isn't operated during the specified time (about 30 SEC.), the camera power will be idle (Camera status lamp:Blinking) automatically.



# Setup menu 2 ( 🖍 2 )

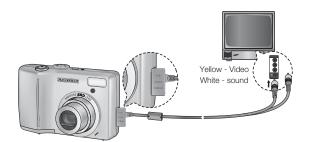
#### Selecting Video out type

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.

0 4 7	12
Quick View	•
Power Off	•
LCD Save	•
	< NTSC
Format	PAL
Reset	•
<ul> <li>Back</li> </ul>	OK Set

- 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.



# Setup menu 2 ( 🖍 2 )

#### Formatting a memory

This is used for formatting the memory. If you run [Format] on the memory, all images, including the protected images, will be deleted. Be sure to download important images to your PC before formatting the memory.

- Sub menus
- [No] : The memory will not be formatted.
- [Yes] : A window for confirming the selection displays. Select the [Yes] menu. A [Processing!] message appears and the memory will be formatted. If you run FORMAT in Play mode, a [No Image!] message will appear.

û 🖣 🗸	11	12
Quick View	Þ	
Power Off	•	
LCD Save	Þ	
Video Out	•	
		No
Reset	Þ	Yes
<ul> <li>Back</li> </ul>		OK Set

#### Initialisation

All camera menu and function settings will be restored to their default values. However, values for DATE / TIME, LANGUAGE, and VIDEO OUT will not be changed.

- Sub menus
- [No] : Settings will not be restored to their defaults.
- [Yes] : A window to confirm the selection will be displayed. Select the [Yes] menu and all settings will be restored to their defaults.



#### Selecting a battery type

If a battery type is selected, the camera will be optimized according to the selected battery type.

[Battery Type] sub Menu : Alkaline / Ni-MH



- 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.

### Starting play mode

Turn the camera on and select Play mode by pressing the play mode button (  $\fbox$  ). 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

1. Select the PLAY mode by pressing the play mode button ( 🖻 ).



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



C7M

- 3. 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.

#### 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 play back 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( **CZD** ) 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 button, and then press the Left or Right button.



04 PLAY



### Starting play mode

#### Movie clip capture function

You can capture still images from the movie clip.

- How to capture the movie clip
- Press the Play / Pause button( 200) 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 (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]

#### 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.

- 1. Press the Pause button( **CDD** ) at the point of the movie clip where you want to start extracting.
- 2. Press the T button.
- 3. Press the Play & Pause button( **CZD** ) and the extracted range will be displayed on the status bar.
- Press the Play & Pause button( b) once more at the point where you wish the extracted file to stop.
- 5. Press the T button and a confirmation window will be displayed.
- 6. 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.

### Starting play mode

#### 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 ( **CZD** ) 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 MENU/OK button.



► 100-0010

00:00:00

►/ Play

- 2. Press the play & pause button ( I ) to play back the voice memo.
  - To pause the voice memo, while playing it back, press the play & pause button
     (CTD) again.
    - ( **EZED** ) 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 MENU / OK button.

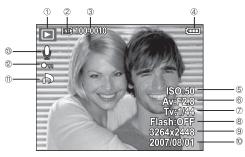






### LCD monitor Indicator

The LCD monitor displays shooting information about the displayed image.



No.	Description	lcon	Page
1	Playback mode		p.57
2	Memory card indicator		-
3	Folder name & File name	100-0010	p.51
4	Battery		p.12
5	ISO	50 ~ 1600	p.42
6	Aperture value	F2.8 ~ F4.6	p.17
7	Shutter speed	15 ~ 1/2000	p.17
8	Flash	ON / OFF	p.26
9	Image size	3264x2448 ~ 320X240	p.39
10	Recording date	2007/08/01	p.52
11	DPOF	ð	p.79
12	Protect	ு	p.79
13	Voice Memo / Movie Clip	J / 🙀	p.47/57

### 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.

#### Thumbnail ( 🚺 ) / Enlargement ( Q ) button

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

- Thumbnail display
  - 1. While an image is displayed on full screen, press the thumbnail button.
  - 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.
- 4. To view an image separately, press the enlargement button.



Pressing the thumbnail button (

Pressing the enlargement button (Q)

Highlighted image



[Thumbnail display mode]

[Highlighted image]

**(60)**_PLAY

# Thumbnail ( 💽 ) / Enlargement ( Q ) button

#### Image enlargement

- 1. Select an image that you want to enlarge and press the enlargement button.
- 2. Different parts of the image can be viewed by pressing the 5 function button.
- 3. Pressing the thumbnail button will zoom back to the original full sized image.
  - 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	8	7∗	6"	5≝	3	1
Maximum enlargemen rate	X12.0	X11.3	X9.5	X9.0	X8.0	X4.0

- 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 MENU/OK button and a message will be displayed.

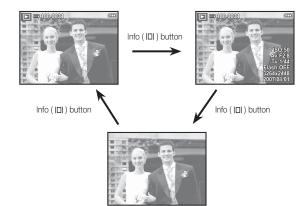


- 2. Select a desired sub menu by pressing the Up / Down button and press the OK button.
  - [No] : The trimming menu will disappear.
  - [Yes] : The trimmed image will be saved as a new file name, and appear on the LCD monitor.
- * If there is not enough memory space to save the trimmed image, the image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

# Info( |D| ) / Up button

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 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 ·In Pause mode : Temporarily stops playback. : Resumes playback



```
[Voice recording is stopped] [Voice recording is playing]
```

[ Voice recording is paused ]

### Left / Right / Menu / OK button

LEFT / RIGHT / MENU / OK buttons 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.
- RIGHT button : While the menu is showing, the RIGHT button operates as a direction button. While the menu is not showing, press the RIGHT button to select the next image.
- MENU button : When you press the 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.

# Printer ( 🕰 ) button

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





# Delete ( 🏠 ) button

This deletes images stored on the memory card.

1. Select an image that you want to delete by pressing the Left / Right button and press the DELETE ( 俗 ) button.

100-0031

[Thumbnail Image]



[Single Image]

- 2. To delete images, press the T button.
  - Left/Right button : Selects images - T button

  - OK button
- : checks for deletion : deletes the selected images.



- 3. 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.

- 1. Press the play mode button and press the E button.
- 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

( o : Selectable)

5≝ 3∞ 1∞ 20 8™ 0 0 0 0 5≝ 0 0 0 3∞ 0 0 **1**^M 0 **3**" **1**M 5≝ 20 **∕7**≝ 0 0 0 0 3" 1 20 6" 0 0 0

- A large sized image can be resized to a smaller sized image, but not vice versa.
- Only JPEG images can be resized. Movie clip (AVI), 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.

- 1. Press the play mode button and press the E button.
- 2. Press the LEFT / RIGHT button and select the [ROTATE] (()) menu tab.
- 3. Select a desired sub menu by pressing the UP / DOWN button.





[ **** : Left 90°]
: Rotate picture in a counterclock-wise direction



[ ): 180°] : Rotate picture 180 degrees



[ **7** : Horizontal] : Rotate picture horizontally



[♥: Vertical] : Rotate picture vertically

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

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



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

lcon	Descroption
89	Captured images will be stored in black and white.
6	Captured images will be stored in a sepia tone (a gradient of yellowish brown colours).
R	Captured images will be stored in a red tone.
G	Captured images will be stored in a green tone.
B	Captured images will be stored in a blue tone.
•	Save the image in negative mode.
G	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.



# E (Effect) button : Special Colour

1. Press the play mode button and press the E button.

2. Select (  $\measuredangle$  ) menu tab by pressing the Left/Right button.

#### Colour Filter

With this menu, you can change the colour information of the image (excluding Red, Blue, Green and Yellow) to Black and White.

1. Select ( 🕐 ) by pressing the Up/Down button.





2. Press the OK button and the image is saved as a new file name.

- OK button
- Up / Down button
- Left / Right button
- : Select / setup the Custom Colour : Selects R, G, B : Change the values



### E (Effect) button : Special Colour

#### Colour mask

With this menu, you can select a part you want to highlight. The rest of the image will be in black and white.











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W / T button : Changing size of selected part



Up/Down/Left/Right button: Changing the location





Press the OK button twice and the colour masked image will be saved as a new file name.



[Final image]

# E (Effect) button : Image editing

- 1. Press the play back button and press the E button.
- 2. Select (  $\hfill \hfill \h$

#### Red eye Removal

Red eye effect can be removed from the captured image.

- 1. 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.



#### 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.
- 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.

#### Saturation control

You can change the saturation of the image.

- Select ( ) 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.
- 3. Press the OK button and the image will be saved as a new file name.



#### Noise Effect

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

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





#### <u>Cartoon</u>

You can add a text box to the image to make the image cartoon like.

 $\ensuremath{\mathbbmm{M}}$  The cartoon image is saved as 1M image size.







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



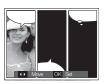
Select a desired position by pressing the Up/Down/ Left/Right button and press the OK button.



Press the OK button and the image is saved. Press the OK button again to open a new image to save.



Change the location of the text box by pressing the Left/Right button.



Select an image by pressing the Up/Down/Left/Right button and press the OK button. Select the third image with the same procedure.





Select the position of image and text box with the same procedure.





Press the OK button and the file is saved as a new file name.



- Before saving the cartoon image, you can change the selected image.
  - 1. Pressing the Fn button deletes the images in order.
- 2. Press the OK button and you can select images.



3. After selecting desired images, press the OK button to save the image as a new file name.

#### Preset focus frames

You can make the subject stand out from its surroundings. The subject will be sharp and in focus while making the rest out of focus.





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



[Range 1]

[Range 4]

Moving and changing the focus frame

You can change the focus frame after selecting a Range menu.

- 1. Select a focus frame by pressing the Left/Right button and press the OK button.
- 2. Move the location of the frame by pressing the Up/Down/Left/Right button.
- 3. Press the OK button and the file is saved as a new file name.



Pressing the OK button



[The frame is activated]

Pressing Up/ Down/Left/Right button



Pressing the OK button



[After changing the frame position]

#### Composite image

You can combine 2 - 4 different shots in a still image.





Press the OK button. (You can select 2-4 composite images)



- •
- If you press the Shutter and Play mode button, a capture mode is executed.
  - The composite image is saved as 1M image size.

## E (Effect) button : FUN

* Selecting 2 composite shots







[Changing the position]

Pressing the OK button

En Dolo



[Selecting the second image]



Select an image by pressing the 5 function button and press the OK button

Pressing the

OK button



Change the location of second image by pressing the Up/Down/Left/Right button and press the OK button to save the image.

- Before selecting the last composite image, you can change a part of composite image.
  - 1. During the composite image editing, press the Fn button.
  - A previous image will be deleted. Press the OK button and you can select a new image. After selecting an image, press the Fn button again and the image will be deleted again.







[Before selecting the 3rd image]

[Moving backward to the 2nd image]

3. Press the OK button and you can select an image again.

## E (Effect) button : FUN

#### Photo Frame

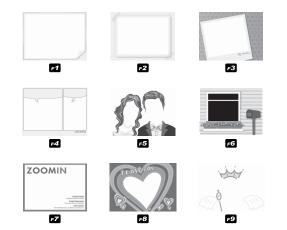
You can add 9 types of frame-like borders to a still image you want to capture.

Date & Time information will not be printed on the stored image taken with Photo Frame menu.





Select a desired sub menu by pressing the Left/Right button. - Press the E button and the frame will be canceled.



Press the OK button and the image is saved.

## E (Effect) button : FUN

#### **Sticker**

You can add various stickers to the image.





Select a desired sticker by pressing the Left/Right button and press the OK button



Select a location of sticker by pressing the Up/Down/Left/Right button

 You can add additional stickers by pressing the Fn button.
 Press the OK button to store the image.



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		Secondary Menu		Page	
	Show	Play / Repeat Play		-			
	Images	All		Date		p.76	
SLIDE	Images	Select		-			
SHOW	Effect	Off	Ba	asic Classic			
( 🔁 )	Ellect	Memories	Rhyt	hmic	Delignt	n 77	
	Interval	1, 3, 5, 10	Sec	-		p.77	
	Music	Off / Music 1, 2, 3		-			
	Voice Memo	Off		-		p.78	
	VOICE IVIEITIO	On		-			
	Delete	Select			-	p.78	
	Delete	All		No / Yes		p.70	
PLAY BACK	Protect	Select		Unlock / Lock		p.79	
_		All				- pir 0	
( 🕨 )		Standard		Select / All / Cancel		p.79 ~ p.81	
	DPOF	Index		No / Yes			
		Size		Select / All / Cancel			
	Copy To Card	No		-		p.81	
	oopy 10 Odiu	Yes		-			

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## Setting up the play back function using the LCD monitor

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 Menu	Secondary Menu	Page	
	Imagaa	One Pic	-	n 02	
	Images	All Pics	-	p.83	
		Auto	-		
		PostCard	-		
		Card	-		
		4X6	-		
	Size	L	-		
		2L	-		
		Letter	-	-	
~		A4	-		
		A3	-	- 04	
		Auto	-	p.84	
		Full	-		
		1	-		
		2	-	-	
	Layout	4	-		
		8	-	1	
		9	-		
		16	-		
		Index	-		

Menu Tab	Main Menu	Sub Menu	Secondary Menu	Page
		Auto	-	
	-	Plain	-	
	Туре	Photo	-	
		FastPhoto	-	
		Auto	-	
	Quality	Draft	-	p.84
		Normal	-	
		Fine	-	
11	Date Print	Auto	-	
		Off	-	
		On	-	
		Auto	-	
	File Name	Off	-	
		On	-	
	Deest	No	-	1
	Reset	Yes	-	

※ Menus are subject to change without prior notice.

## Starting the slide show ( 률 )

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.

2. Press the LEFT / RIGHT button and select the [SLIDE SHOW] menu tab.

#### Start the slide show

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

- 1. Use the Up / Down buttons to select the [Show] 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 shown while playing it back, press the play & pause( oup ) button again.
  - Pressing the play & pause( 20) button again will cause the slide show restart.
  - To stop playback of the slide show, press the play & pause ( 220) button, and then press the OK / Menu button.

You can select image to view

- 1. Use the Up / Down buttons to select the [Image] 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.
  - [Date] : Images taken in a specified date are played back.

[Select] : You can select desired images to play back

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



 Image
 Repeat Play

 Effect
 Play

 Intrage
 Repeat Play

 Effect
 Play

 Intrage
 Repeat Play

 Integet
 Repeat Play

## Starting the slide show ( 🖬 )

#### Configure slide show effects

Unique screen effects can be used for the slide show.

- 1. 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.
- SLICE S-OW

   Show
   Off

   Image
   Basic

   Effect
   Classic

   Interval
   Memories

   Music
   Prijetmic

   Degint
   Ok

   et Back
   Ok

- [Off] : N [Basic] : F
  - : No effect. : Fade In/Out effect is added

and the Images are displayed at set interval.

- [Classic] : You can add noise to the image to give a classic feel.
- [Memories] : Scratches are added to give an old movie effect.
- [Rhythmic] : Images are displayed with a special effect.
- [Delight] : Images are displayed with a special effect.
- 3. Press the OK button to confirm the setting.

#### 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 buttons 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.
  - The interval menu functions in the [Off], [Basic] and [Classic] menu only.

#### 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 buttons to select the desired Music.
- 3. Press the OK button to save the configuration.



#### 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 will record for 10 seconds.
- To stop the recording, press the shutter button.

#### Deleting images

This deletes images stored on the memory.

- 1. 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 : Select an image
- Zoom T Button : Select the image for deletion. (  $\checkmark$  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 aren't protected images, all the images are deleted and a [No Image!] message will appear.



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.

#### Protecting images

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

- 1. 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 : Select an image
  - Zoom W / T Button : 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.









#### 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 display 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.

- 1. Press the Up / Down button and select the [DPOF] menu tab. And then press the Right button.
- 2. Press the Right button again and [Standard] sub menu will display.
- 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 : Select an image to print.
  - Zoom W / T Button : Select the number of prints.
  - [All] : Configure number of prints for all pictures except movie and voice files.
  - W / T button : 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.



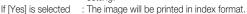
OK Set

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#### Index

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

- 1. 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 display.
- 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.

- 1. 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 display.
- 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 : Select an image.
  - Zoom W / T Button : Change the print size.
  - OK button : Your changes will be saved and the menu will disappear.
  - [All] : Change print size of all saved images.
  - W / T button : Select a print size
  - OK button : Confirm the changed setting.
  - [Cancel] : Cancel all of the print size settings.

** DPOF [Size] secondary menu : Cancel, 3X5, 4X6, 5X7, 8X10



• 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.

1. Select the [Copy To Card] menu tab by pressing the Up / Down button. And then press the Right button.



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- 2. 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.

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• When this menu is selected without inserting a memory card, the [No Card] message will be displayed.

- If there is not enough space available in the memory card to copy saved images in the internal memory (About 19 MB), 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.

## 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.
- Select the [Printer] menu by pressing Up / Down button and press the OK button.



Connecting the Camera to a Printer



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## PictBridge

% If the [USB] menu is set to the [Computer], you cannot connect a Pictbridge compatible printer to the camera through USB cable with [Connecting Computer] message. In this case, remove the cable and do the step 1 and 2 again.

#### Easy printing

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

 Pressing the printer ( ) button : Currently displayed image will be printed with the printer's default setting.

- Pressing the Left / Right button : Selects a previous / next image.



## PictBridge : Picture Selection

You can select images you want to print.

- Setting the Number of Copies to Print
- 1. Press the Menu button and the PictBridge menu will display.
- 2. Use the Up / Down buttons to select the [Images] menu and press the Right button.
- 3. Use the Up / Down buttons 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.
- 4. Press the Print button (  $\buildrel L$  ) 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.

- 1. Press the Menu button and the PictBridge menu will display.
- 2. Use the Up / Down buttons to select the desired menu, and then press the Right button.
- Use the Up / Down buttons to select the desired sub menu value, and then press the OK button.

16	
Images 🔸	Auto
	PostCard
Layout >	Card
Type →	4x6
Quality >	L
Date 🕨	2L
<ul> <li>Back</li> </ul>	OK Set

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, Fast- Photo
Quality	Set the quality of the picture to be printed	Auto, Draft, Normal, Fine
Date	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 buttons to select the [Reset] menu tab. And then press the Right button.
- Use the Up / Down buttons 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.

## 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 severe changes 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.
  - 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.
- 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.

## Important notes

- If the camera is exposed to an 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.

## Warning indicator

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

#### [Card Error !]

- Memory card error
  - $\rightarrow$  Turn off the camera power and turn it on again
  - $\rightarrow$  Insert the memory card again
  - $\rightarrow$  Insert and format the memory card (p.56)

#### [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
  - $\rightarrow$  Insert the memory card again
  - $\rightarrow$  Turn off the camera power and turn it on again

#### [No Image!]

- •There are no images stored on the memory
  - $\rightarrow$  Take images
  - $\rightarrow$  Insert a memory card that is holding some images

## Warning indicator

#### [File Error!]

- •File error
  - $\rightarrow$  Delete the file.
- Memory card error
- $\rightarrow$  Contact a camera service centre.

#### [Low Battery!]

#### There is low battery capacity

 $\rightarrow$  Insert fresh batteries.

#### [Low Light!]

•When taking pictures in dark places

 $\rightarrow$  Take pictures in Flash Photography mode.

## Before contacting a service centre

Please check the following

The camera doesn't switch on

- There is low battery capacity
  - $\rightarrow$  Insert fresh batteries. (p.12)
- •Battery is inserted incorrectly with the polarities reversed.
  - $\rightarrow$  Insert the battery according to the polarity marks (+, -).

#### The camera power ceases while in use

- •The battery is exhausted
  - $\rightarrow$  Insert fresh batteries.
- The Camera is turned off automatically
  - $\rightarrow$  Turn on the camera power again.

#### Battery power quickly drains

- •The Camera is being used in low temperatures
  - → Keep the camera in warm conditions (i.e. inside a coat or jacket) and only remove it in order to take images.

## Before contacting a service centre

#### Camera does not take images when pressing the Shutter button

- •There is insufficient memory capacity
  - $\rightarrow$  Delete unnecessary image files
- •The memory card has not been formatted
  - $\rightarrow$  Format the memory card (p.56)
- •The memory card is exhausted
  - $\rightarrow$  Insert a new memory card
- •The memory card is locked
  - $\rightarrow$  Refer to [Card Locked!] error message
- •The camera's power is off
  - $\rightarrow$  Turn the camera power on
- The battery is exhausted
  - $\rightarrow$  Insert fresh batteries (p.12)
- Battery is inserted incorrectly with the polarities reversed.
  - $\rightarrow$  Insert the battery according to the polarity marks (+, -)
- The camera suddenly stops working while in use
- •The camera stopped due to a malfunction
  - $\rightarrow$  Remove /re-insert battery and switch the camera on

#### The images are unclear

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

#### The flash does not fire

- Flash off mode has been selected
   → Dis-engage flash off mode
- •The camera mode can't use the flash
  - $\rightarrow$  Refer to the FLASH instruction (p.26)

#### Incorrect date and time is displayed

- The date and time have been set incorrectly or the camera has adopted the default settings
  - $\rightarrow$ Reset the date and time correctly

#### The camera buttons do not operate

- Camera malfunction
  - $\rightarrow$  Remove/re-insert battery and switch the camera on

#### 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
  - $\rightarrow$  Select appropriate White balance and effect

## Before contacting a service centre

#### Images are too bright

- Exposure is excessive
- $\rightarrow$  Reset exposure compensation

#### No image on external monitor

- The external monitor has not been connected properly with the camera
- $\rightarrow$  Check the connection cables
- •There are incorrect files in the memory card
- $\rightarrow\,$  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
- $\rightarrow$  Check the connection
- •The camera is off
  - $\rightarrow$  Turn the camera on
- The operating system is not Windows 98SE, 2000, ME, XP, Vista / Mac OS 10.0 - 10.4. Alternatively the PC does not support USB
  - $\rightarrow$  Install Windows 98SE, 2000, ME, XP, Vista / Mac OS 10.0 10.4 to PC that supports USB
- •The camera driver is not installed
  - →Install a [USB Storage Driver]

## **Specifications**

Image S	- Effectiv	sor - Type : 1/2.5" CCD - Effective Pixel : Approx. 8.2 Mega-pixel - Total Pixel : Approx. 8.3 Mega-pixel					
Lens	<ul> <li>Focal Length : SHD Lens f = 6.3 ~ 31.5mm (35mm film equivalent : 38 ~ 190mm)</li> <li>F No. : F 2.8 ~ F 4.6</li> <li>Digital Zoom : •Still Image mode :1.0X ~ 5.0X •Play mode : 1.0X ~ 12.0X (depends on image size)</li> </ul>						
LCD Mo	nitor - 2.5" co	olor TFT LCD (230	),000 dots)				
Focusing	Focusing - Type : TTL auto focus, Multi-AF, Face Recognition AF - Range						
	Normal	Macro	Super Macro	Auto Macro			
Wide							
vvide	00	5cm ~ 80cm	1cm ~ 5cm	5cm ~ Infinity			
Tele	80cm ~ Infinity	5cm ~ 80cm 50cm ~ 80cm	1cm ~ 5cm -	5cm ~ Infinity 50cm ~ Infinity			
	- Speed (Manua		- - 000 sec.,	50cm ~ Infinity			

- Compensation : ±2EV (1/3EV steps)

- ISO: Auto, 50, 100, 200, 400, 800, 1600

## **Specifications**

Flash	n - Modes : Auto, Auto & Red-eye reduction, Fill-in flash, Slow sync, Flash off, Red-eye Fix - Range : Wide : 0.4m ~ 3.0m, Tele : 0.5m ~ 2.5m - Recharging Time : Approx. 5 sec		<ul> <li>Movie Clip</li> <li>With Audio (recording time : memory capacity dependent)</li> <li>Size : 640x480, 320x240</li> <li>Frame rate : 30 fps, 15 fps</li> </ul>					
Sharpness	- Soft+, Soft, Normal, Vivid, Vivid+			tical Zoon up vie Editing (B	Embedded):	Pause during	use during	
Color Effect	<ul> <li>Normal, B&amp;W, Sepia, Blue, Red, Green, Negative, Custom Color</li> </ul>	recording, Still Image Capture		ire				
	Custom Color	Storage	- Mec	lia				
White Balance	- Auto, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom	nasten, Custom		<ul> <li>Internal memory : About 19MB flash memory</li> <li>External Memory (Optional)</li> <li>: MMC card (Up to 1GB guaranteed)</li> </ul>				
Voice Recording	oice Recording - Voice Recording (max. 10 hours) - Voice Memo in Still Image (max. 10 sec.)		SD card (Up to 2GB guaranteed) SDHC card (Up to 4GB guaranteed)					
Date Imprinting	- Date, Date & Time, Off (user selectable)	- File Format						
Shooting	<ul> <li>Still Image</li> <li>Mode : Auto, Program, ASR, Manual, Scene, Portrait, Night</li> <li>Scene : Children, Landscape, Close-up, Text, Sunset,</li> </ul>		•Mc •Au	0	EG (DCF), EX tBridge 1.0 1 (MJPEG)	(IF 2.2, DPO)	- 1.1,	
	Dawn, Backlight, Fireworks, Beach & Snow, Self Shot, Food, Cafe	8	74	6.	5≝	3	1	
	Shooting : Single, Continuous, AEB, Motion Capture, Wise Shot	3264X 2448	3264X 2176	3264X 1824	2592X 1944	2048X 1536	1024X 768	
	<ul> <li>Self-timer : 10 sec., 2 sec., Double, Motion Timer</li> </ul>							

## **Specifications**

- Capacity (256 MB Size)						
$\backslash$	8	7	6-	5≝	3≝	1
Super Fine	57	68	84	93	172	558
Fine	103	115	134	158	265	663
Normal	180	206	233	271	425	742
* These fig may vary	,		under Sam iting condi	0		
<ul> <li>"E" Button</li> <li>Effect : Color, Image Adjust, Special Color, Fun ( Highlight, Composite, Photo Frame)</li> <li>Editing : Resize, Rotate, Color, Special Color(Color Filter, Color Mask), Image Adjust ( Brightness, Contrast, Saturation, Add Noise, Red Eye Fix), Fun (Cartoon , Highlight, Composite, Photo Frame, Sticker)</li> </ul>						
Image Play	Play - Type : Single image, Thumbnails, Slide show, Movie Clip					
Interface - Digital output connector : USB 2.0 - Audio : Mono - Video output : NTSC, PAL (user selectable) - DC Adapter : 3.3V						
Power Sour	- R	<ul> <li>DC Adapter : 3.30</li> <li>Primary Battery : 2 X AA Alkaline</li> <li>Rechargeable battery (Optional) : SNB-2512 KIT ( 2xAA Ni-MH Battery &amp; Charger )</li> <li>% Included battery may vary depending on sale region.</li> </ul>				

- Canacity (256 MB Size)

Dimensions (WxHxD)	- 100.3 X 63 X 23.4mm (excluding protrusions)
Weight	- Approx. 154g (without batteries and card)
Operating Temperature	- 0 ~ 40°C
Operating Humidity	- 5 ~ 85%
Software	- Samsung Master, Adobe Reader

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

## Software Notes

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

- The attached software is a camera driver and image editing software tool for Windows.
- 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).

## System Requirements

For Windows	For Macintosh
PC with processor better than Pentium II 450MHz (Pentium 800MHz recommended)	Power Mac G3 or later
Windows 98SE / 2000 / ME / XP/Vista	Mac OS 10.0 ~ 10.4
Minimum 128MB RAM (Over 512MB recommended) 200MB of available hard disk space (Over 1GB recommend)	Minimum 64MB RAM (Over 256MB recommended) 110MB of available hard-disk space
USB port	USB port
CD-ROM drive	CD-ROM drive
1024x768 pixels, 16bit color display compatible monitor (24bit color display recommended) MicroSoft DirectX 9.0C	

## About the software

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



Before connecting the camera to the PC, you should first install the camera driver.

 Camera driver : This enables images to transfer between the camera and PC.

This camera uses the USB Storage Driver as the camera driver. You can use the camera as a USB card reader. After installing the driver and connecting this camera to the PC, you can find [Removable Disk] in [Windows Explorer] or [My computer]. A USB Storage Driver is provided only for Windows. A USB Driver for MAC is not included with the Application CD. You can use the camera with Mac OS 10.0~10.4.

Samsung Master : This is the all-in-one multi media software solution. You can download, view, edit and save your digital images and movie clips with this software. This software is only compatible with Windows. •

• Be sure to check the system requirements before installing the driver.

 You should allow 5 ~ 10 seconds for running the automatic setup program according to the capability of your computer. If the frame does not appear, run the [Windows Explorer] and select [Installer.exe] in the CD-ROM Drive root directory.

## 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.

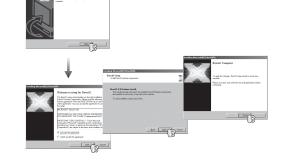
• You can visit the Samsung web-site through the internet.

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

1. The auto run frame will display. Click the [Install] menu in the Auto run frame.

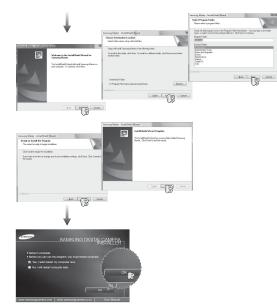


 Install the camera driver, DirectX, Samsung Master and Adobe Reader by selecting a button shown on the monitor. If a latest version of DirectX was installed on your computer, DirectX may not be installed.



## Setting up the application software





- 3. After restarting the computer, connect the PC to the camera with the USB cable.
- 4. Turn the camera power on. 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. If the download window of Samsung Master opens after starting Samsung Master, the camera driver was set up successfully.



## Setting up the application software

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- If you have installed the camera driver, the [Found New Hardware Wizard] may not open.
- On a Windows 98SE system, the Found New Hardware Wizard dialog box opens and a window asking you to select a driver file may appear. In this case, specify "USB Driver" in the CD supplied.
- 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 Adobe Reader included in the Software CD-ROM.

• To install the Adobe Reader 6.0.1 correctly, Internet Explorer 5.01 or later has to be installed. Visit "www.microsoft.com" and upgrade the Internet Explorer.

## 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.
  - 3. Turn on the computer. The camera and computer are connected.
  - 4. External device selection menu will be displayed on the LCD monitor.
  - 5. Select the [Computer] by pressing the Up / Down button and press the OK button.



## Starting PC mode

#### Connecting the camera to a PC



% If you selected [Printer] in Step 5, when you connect the camera to your computer, the [Connecting Printer] message will display and the connection will not be established.

In this case, disconnect the USB cable, and then follow the procedure from Step 2 and onward.

 Disconnecting the camera and PC Refer to page 99 (Removing the removable disk).

#### 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→ 100SS-CAM].

The image files will then be displayed.



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



## Starting PC mode

- 4. 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.



- By using [Samsung Master], you can see the stored images in the memory directly on the PC monitor and you can copy or move the image files.
- 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 Error!] message will be displayed on the LCD monitor in the PLAY mode, and nothing is displayed in THUMBNAIL mode.

## Removing the removable disk

- Windows 98SE
  - 1. 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. Unplug the USB cable.
- Windows 2000/ME/XP/Vista (The illustrations may differ from those shown depending on the Windows O/S.)
  - 1. 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.
- 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.

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- 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.





## Setting up the USB Driver for MAC

- 1. A USB Driver for MAC is not included with the software CD as MAC OS supports the camera driver.
- 2. Check the MAC OS version during start-up. This camera is compatible with MAC OS 10.0  $\sim$  10.4.
- 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

- 1. 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.



For Mac OS 10.0 or later : First complete uploading from computer to camera and then remove the removable disk with the Extract command.

## Removing the USB Driver for Windows 98SE

To remove the USB driver, refer to the process shown below.

- 1. Connect the camera to your PC and turn them on.
- 2. Check whether the Removable Disk is on the [My Computer].
- 3. Remove the [Samsung Digital Camera] on the Device manager.



- 4. Disconnect the USB cable.
- 5. Remove the [Samsung USB Driver] on the Add/Remove Programs Properties.



6. Uninstallation is complete.

## Samsung Master

You can download, view, edit and save your images and movies with this software. This software is only compatible with Windows.

To start the program, click [Start  $\rightarrow$  Programs  $\rightarrow$  Samsung  $\rightarrow$  Samsung Master  $\rightarrow$  Samsung Master].

- Downloading images
- 1. Connect the camera to your PC.
- 2. A window for downloading images will be displayed 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.



- 4. Select a destination and make a folder 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.

 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.

7. Downloaded images will be displayed.



Permission You pho	ng wixaad will guide you to disveland samena images to PC to: we wady to download Press Shef batter to bogs.	
	3 phose of alloage drive of cancer are ready to dowhad to C-Mp Document/2003_BU3116de	
	- 244 346	Cancel



# 05 SOFTWARE

## 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.
- 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.
- ④ 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.
- In the selected image.
  In the selected image.
- 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 displays 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 can't play back in the Samsung Master.

* Refer to the [Help] menu in Samsung Master for further information.

## 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.
- $\rightarrow\,$  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.
  - → Install the camera driver correctly. 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

Case 5

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.

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. For Windows 98SE PC, remove the camera driver also, restart the PC, and then reinstall the camera driver.
- 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.

## FAQ

- When the DirectX 9.0 or later is not installed
  - $\rightarrow$  Install the DirectX 9.0 or later
    - 1) Insert the CD provided with the camera
  - 2) Run the windows explorer and select the [CD-ROM drive:\USB Driver\DirectX 9.0] folder and click the DXSETUP.exe file. The DirectX will be installed. Visit the following site for downloading the DirectX.http://www.microsoft.com/directx
- If a PC (Windows 98SE) stops responding while the camera and PC are connected repeatedly
  - → If a PC (Windows 98SE) is turned on for a long time and the camera is connected repeatedly, the PC may not recognise the camera. In this case, re-start the PC.
- 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 ex
  - tracted 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.

## 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 with other household wastes at the end of its work-

ing 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 re-use 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 Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

#### ■ NOTE :

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

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

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

#### Declaration of Conformity

Trade Name	
Model No.	
Responsible Party	
Address	
Telephone No.	

: SAMSUNG TECHWIN : SAMSUNG S85/D85 : Samsung Opto-Electronics America, INC. : 40 Seaview Dr. Secaucus,NJ 07094 : 201-902-0347

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## MEMO



SAMSUNG TECHWIN CO., LTD. OPTICS & DIGITAL IMAGING DIVISION 145-3, SANGDAEWON 1-DONG, JUNGWONGU, SUNGNAM-CITY, KYUNGKI-DO, KOREA 462-121 TEL : (82) 31-740-8222, 8488, 8490 FAX : (82) 31-740-8398 www.samsungcamera.com

SAMSUNG OPTO-ELECTRONICS AMERICA, INC. 1-800-SAMSUNG (726-7864) www.samsungcamerausa.com

If you have any questions or comments relating to Samsung cameras, Please contact the SAMSUNG customer care center

SAMSUNG FRANCE S.A.S. HOTLINE PHOTO NUMÉRIQUE : 00 800 22 26 37 27 (Numéro Vert-Appel Gratuit) www.samsungphoto.fr SAMSUNG OPTO-ELECTRONICS GmbH ZENTRALE, KEINE REPARATUR AM KRONBERGER HANG 6 D-65824 SCHWALBACH/TS, GERMANY TEL: 49 (0) 6196 66 5303 FAX: 49 (0) 6196 66 5366 TECHNISCHE SERVICE HOTLINE: 00800 4526 3727 (nur kostenfrei fur Anrufe aus Deutschland)

Die Adressen Ihrer Kundendienste sowie die Garantiebestimmungen entnehmen Sie bitte aus dem beiliegenden Faltblatt (SAMSUNG INTERNATIONAL WARRANTY CERTIFICATE) INTERNET: www.samsungcameras.de

TIANJIN SAMSUNG OPTO-ELECTRONICS CO., LTD NO.9 ZHANGHENG STREET. MICRO-ELECTRONIC INDUSTRIAL PARK JINGANG ROAD TIANJIN CHINA. POST CODE : 300385 TEL : 800-810-5858 www.samsungcamera.com.cn SAMSUNG OPTO-ELECTRONICS UK LIMITED SAMSUNG HOUSE 1000 HILLSWOOD DRIVE HILLSWOOD BUSINESS PARK CHERTSEY KT16 OPS U.K. TEL : 00800 12263727 (free for calls from UK only) UK Service Hotline : 01932455320 www.samsungcamera.co.uk

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



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