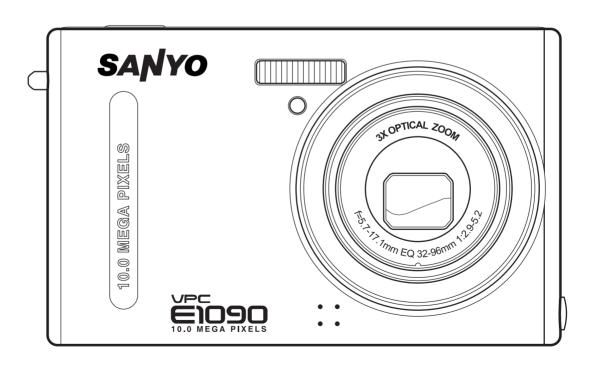


INSTRUCTION MANUAL

VPC-E1090

Digital Camera

10 Mega Pixels





Preface

About this Manual

This manual is designed to assist you in using your new digital camera. All information presented is as accurate as possible but is subject to change without notice.

Copyright

This manual contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer.

© Copyright 2009

Federal Communications Commission (FCC) Compliance

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 the 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.

Note:

A shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to radio and television reception. Use only shielded cable to connect I/O devices to this equipment. Any changes or modifications not expressly approved by the manufacturer may void your warranty and service agreement.

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Declaration of Conformity

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

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undersired operation.

Trademark Recognition

Windows 2000/XP/Vista are registered trademarks of Microsoft Corporation in the United States and/or other countries. Windows is an abbreviated term referring to the Microsoft Windows Operation System. Adobe is a trademark of Adobe Corporation. ArcSoft is the trademark of ArcSoft System, Inc. All other companies or product names are trademarks or registered trademarks of their respective companies.

Safety and Handling Precautions

Camera Information

- Do not take apart or attempt to service the camera yourself.
- Do not expose the camera to moisture, or extreme temperatures.
- Allow the camera to warm up when moving from cold to warm temperatures.
- Do not touch the camera lens.
- Do not expose the lens to direct sunlight for extended periods.
- Do not use abrasive chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.

Battery Information

- Turn off the camera before installing or removing the battery.
- Use only the type of battery (SANYO Li-ion battery, Type NP40, 3.7V, 720mAH). Using other
 types of battery may damage the equipment and invalidate the warranty.
- Inserting the battery upside down can cause damage to the product and possibly start a fire.
- Download all pictures and remove the battery from the camera if you are going to store the camera for long periods.

Safety Instructions

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

WARNING

Do not disassemble, change or repair the camera.

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



Do not use the camera in areas near water.

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



Do not place the camera on inclined or unstable surfaces.

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



Keep the battery out of the reach of children.

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



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

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



CAUTION

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

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



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

This might cause damage to the person's eyesight.



Do not subject the LCD monitor to impact.

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



If the internal fluid has entered your eyes, consult a physician to receive treatment.

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

This might cause damage to the camera.



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

This might cause fire or electric shock.



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

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



iv Preface

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

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



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



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

Before you move the camera, disconnect cords and cables.

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



Warning:

TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

FOR AMERICAN USERS

The following advisory is included in accordance with the laws of the State of California (USA): WARNING:

This product contains chemicals, including lead, known to the States of California to cause cancer, birth defects or other reproductive harm. *Wash hands after handling.*

- 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 designated 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - * Reorient or relocate the receiving antenna.
 - * Increase the separation between the equipment and receiver.
 - * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - * Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FOR CANADIAN USERS

This Class B digital apparatus complies with Canadian ICES-003

FOR EU USERS



The symbol mark and recycling systems described below apply to EU countries and do not apply to countries in other areas of the world.

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and/or reused.

The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

Note:

If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: Hg: mercury, Cd: cadmium, Pb: lead

In the European Union there are separate collection systems for used electrical and electronic equipment, batteries and accumulators.

Please, dispose of them correctly at your local community waste collection/recycling centre. Please, help us to conserve the environment we live in!

Manufacturer and Address SANYO Electric Co., Ltd. 5-5, Keihan-hondori, 2-chome, Moriguchi City, Osaka, Japan

Authorized Representative and Address SANYO FISHER Sales (Europe) GmbH Stahlgruberring 4, D-81829 Munich, Germany

Symbols used in this manual



Points giving some extended instructions or special points to pay attention to.

You many find the answers to questions or problems concerning camera operation in the sections "Troubleshooting".

FCC Information



Tested To Comply with FCC Standards FOR HOME OR OFFICE USE

Declaration of Conformity

Model number: VPC-E1090 Trade name: SANYO

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Responsible party: SANYO FISHER COMPANY

Address: 21605 Plummer Street Chatsworth, California 91311 Telephone No.: (818) 998-7322

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.

Canadian ICES-003 Information

This class B digital apparatus complies with Canadian ICES-003.

TRADEMARK INFORMATION

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

READ THIS FIRST

Notice:

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

Safety Instructions

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Congratulations on the purchase of your new digital camera. This manual provides step-bystep instructions on how to use your camera, and is intended for your reference only.

System Requirements

In order to get the most out of your camera, your computer must meet the following system requirements:

- OS: Windows 2000/XP/Vista
- · Memory: 128 MB or above
- HDD space: 40 MB or above
- USB port

Package Contents

Check the contents of your camera package. It should contain:

- · Digital camera
- USB/AV 3-in-1 cable
- Wrist strap
- One Li-ion battery
- AC Adapter
- Camera pouch
- · Quick start guide for all regions
- Bundled CD-ROM (Application Software and User's Manual for all regions)

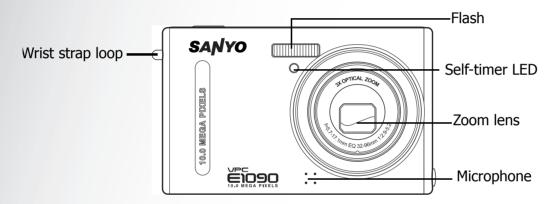
Main Features

- 10.0 mega pixels resolution
- 15x zoom (Up to 3x optical zoom and 5x digital zoom)
- 1/2.33 inch CCD image sensor
- · 2.7 inch TFT LCD monitor
- 16MB internal flash memory, support SD/SDHC memory card from 32MB to 16GB.
- · Sleek and slim design

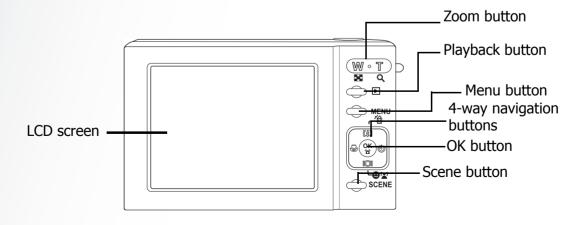
- · Easy-to-use button interface
- · PictBridge compatibility
- · Slideshow feature to review your pictures and movies
- AV output to view your pictures and movies on your TV
- · USB port to transfer photos and movies to your PC

Camera Views

Front View

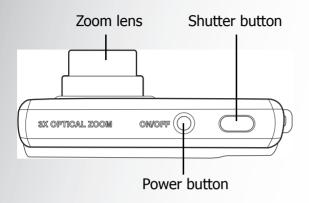


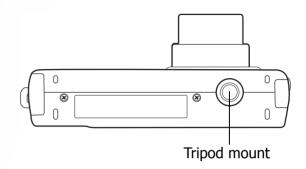
Back View



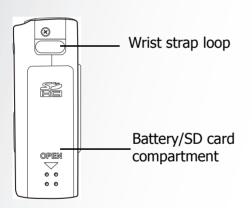
Camera Views

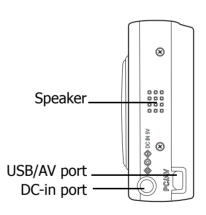
Top View / Bottom View





Left / Right View





LED Indicators

LED	LED Status	Camera Status
	Off	Power Off
Power/	Blue (steady)	Ready to take picture
Flash LED	Blue (blinking)	Camera busy/normal battery charging in slow blink/over heat caution while battery is charged
	Off	Self-timer off
Self-timer LED	Red (blinking) (10 sec)	Timer count down, flash after 10 seconds
	Red (blinking) (2 sec)	Timer count down, flash after 2 seconds

Camera Buttons

Navigation Buttons

The 4-way navigation buttons and the **OK** button allow you to access the various options available from the On Screen Display (OSD) menu. You can configure a wide range of settings to ensure maximum results from your photos and videos.

Icon	Button	Function
OK/ 😭	OK/ ANTI-SHAKE	 Confirm a selection when using the OSD menus In Capture mode: Press to enable/disable the Anti-Shake in Auto mode Press to enable AF area selection using 4-way navigation buttons (except Auto/Video/Landscape/Night Landscape/Self Portrait/Fireworks) In Playback mode: Press to start and pause the video playback Press to stop the voice memo playback In USB mode: MSDC: N/A PTP: Press to confirm the selection In Video mode: Press to enable/disable the anti-shake function

Icon	Button	Function
		1. Move up in the OSD menus
		2. In Capture mode:
		 Scroll through the flash mode options (Auto, Off, Fill and Anti Red-eye) Press to pan up in AF area selection Press to delete in QUICK VIEW (QV) "ON" at
F/1 //	UP/FLASH/	SETUP mode during ⁄ mark appears on LCD
[4] 16	DELETE	3. In Playback mode:
		Press to pan up in zoom in modePress to move up in the thumbnail displayPress to delete images
		4. In USB mode:
		MSDC: N/A
		 PTP: Press to scroll up through a menu
	RIGHT/ SELF-TIMER/ BURSTMODE	Move right in the OSD menus
		2. In Capture mode:
		Press to scroll through the Self-timer/Burst/Multi-
		Burst modePress to pan right in AF area selection
		3. In Video mode:
		Press to scroll through the Self-timer options
		4. In Playback mode:
(1)		Press to pan right in zoom in mode
O		 Press to navigate to next image in single up Press to move right in the thumbnail display
		 Press to fast forward video playback during Pause III mode
		5. In USB mode:
		MSDC: N/A
		 PTP: Press to select the next image in This Image submenu

Icon	Button	Function
	DOWN/ SCREEN/ FACE DETECTION/ SMILE DETECTION	 Move down in the OSD menus In Capture mode: Press to scroll through histogram, face detection, smile detection, extra icons disappear and all icons turn back on LCD screen Press to pan down in AF area selection Note: Face and smile detection functions are not available in Sport, Landscape, Night Landscape, Fireworks, Foliage and Copy modes. In Video mode: Press to turn off extra icons on the LCD screen, press again to turn all icons back on the LCD screen In Playback mode: Press to pan down in zoom in mode Press to show the file information In USB mode: MSDC: N/A PTP: Press to scroll down through a menu

Icon	Button	Function
	LEFT/MACRO	 Move left in the OSD menus Go up to the previous level in the OSD menus In Capture mode: Press to enable Macro mode. Macro icon displays on the LCD screen Press to pan left in AF area selection In Playback mode: Press to pan left in zoom in mode Press to navigate to previous image in single up Press to move left in the thumbnail display Press to fast rewind video playback during Pause mode In USB mode: MSDC: N/A PTP: Press to select the previous image in This Image submenu

The Scene Button

The camera is equipped with a convenient **SCENE** button that takes you to the **Scene Menu** where you can scroll between different modes and choose different scene options.
Use the **LEFT/RIGHT/UP/DOWN** navigation buttons to scroll and use the **OK** button to select. Use the **SCENE** button to:

Mode Type	Icon	Function
Auto		Scroll to Auto mode
P-Mode (Program Mode)	P	Scroll to Program mode
Sport	*	Scroll to Sport mode
Landscape		Scroll to Landscape mode
Night Landscape	*_	Scroll to Night Landscape mode
Portrait	^	Scroll to Portrait mode

Camera Buttons

Self Portrait		Scroll to Self Portrait mode
Night Portrait	**	Scroll to Night Portrait mode
Museum		Scroll to Museum mode
Snow	紫	Scroll to Snow mode
Sunset	*	Scroll to Sunset mode
Fireworks	湍	Scroll to Fireworks mode
Beach	K	Scroll to Beach mode
Party	至	Scroll to Party mode
Foliage		Scroll to Foliage mode
Kids & Pets		Scroll to Kids & Pets mode
Сору	T	Scroll to Copy mode
Backlight	*	Scroll to Backlight mode
Video		Scroll to Video mode

Function Buttons

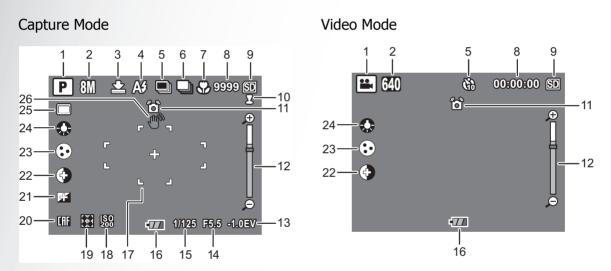
Icon	Button	Function
MENU	MENU	Press to display the Menu options
	PLAYBACK	Press to review photos/videos clips saved in the internal memory or on the memory card
т/Q	ZOOM IN	In Capture mode: Press to zoom in on subject to be taken In Playback mode: Press to zoom in on saved photos
w/ =	ZOOM OUT	In Capture mode:

LCD screen

The high resolution 2.7" TFT LCD screen shows all important information regarding camera settings as well as the visual image for your photo or video.

Use the **SCENE** button to switch between screen modes. Press the **DOWN/SCREEN** [O]/ **FACE DETECTION** [O]/SMILE DETECTION (O) button to switch between a full display (all icons are displayed) and a simple display (only mode icon and focus area are shown while other icons are hidden).

Capture/Video Mode Display



o. Name	Scene	Icon
Scene indicator	Auto	
	P-Mode	P
	Sport	*
	Landscape	
	Night Landscape	*
	Portrait	
	Landscape Night Landscape	

LCD screen

		Self Portrait	
		Night Portrait	**
		Museum	<u></u>
		Snow	*
		Sunset	*
		Fireworks	湍
		Beach	E
		Party	Ý
		Foliage	***
		Kids & Pets	e
		Сору	T
		Backlight	*
		Video	
2	Image Resolution	10M	1000
		8.9M 3:2	322
		8M	811
		5M	5M
		3M	3M
		2.1M 16:9	169
		2M	211
		VGA	VGA

3	Image Quality	Best		
		Better		
		Good		
4	Flash	Auto Flash		\mathbb{A}^3
		Flash Off		②
		Fill Flash		\mathcal{G}
		Anti Red-eye		æ\$
5	Self-timer/ Burst mode	Self Timer	10 Seconds	6
			2 Seconds	3
		Burst Mode		
		M-Burst		M
	AEB	AEB		OFF
6		Bracket		+/- 0.3 EV
		Exit		-
7	Macro indicator	Macro Mode		&
8	Image Counter	Capture Mode	Quantity	9999
		Video Mode	Time	00:00:00
9	Memory Interface	SD/SDHC Card		SD
		Internal Memory		
10	Date Stamp	-		Д
11	Anti-Shake	-		6

Zoom Bar	-	
Compensation	-	-2.0EV ~ +2.0EV
Aperture Value (Max.)	-	F2.9/F5.2
Shutter Speed	-	2 ~ 1/2000 sec.
	Battery Full	+777
Battery Indicator	Battery Low	-
	Battery Insufficient	(Blink)
AF Frame	-	-
	Auto	ISO AUTO
ISO Speed	ISO 80	ISO 80
	ISO 100	[SO 100
	ISO 200	ISO 200
	ISO 400	ISO 400
	ISO 800	ISO 800
	ISO 1600	ISO 1600
Focus Zone	Multi-Zone	
	Center	•
	Selected Area	
	EV Compensation Aperture Value (Max.) Shutter Speed Battery Indicator AF Frame	EV

20	Sharpness	High	F
		Normal	
		Low	
21	Contrast	High	③
		Normal	
		Low	
22	Saturation	High	•
		Normal	•
		Low	
23	White Balance	Auto	AWB
		Sunny	0
		Tungsten	0
		Fluorescent	
		Cloudy	9
24	AE Metering	Matrix	\boxtimes
		Spot	
		Average	
25	Camera Steady Warning	-	

Camera Setup

Attaching the Wrist Strap

Follow these instructions to attach the wrist strap to your camera to facilitate easy carrying:

- 1. Insert the short loop of the strap in the strap eyelet.
- 2. String the larger loop of the strap through the short loop and pull tight to attach the strap to the camera.

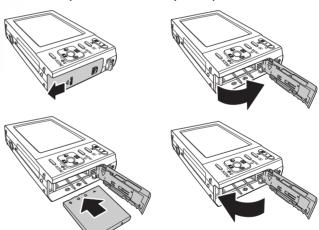


Inserting the Battery

Follow these instructions to insert one Li-ion battery into the battery compartment.

- 1. Open the battery compartment on the left of the camera.
- Insert the battery into the compartment observing the correct polarity. (Label side up)







Note:

Use SANYO Li-ion battery, Type NP40, 3.7V, 720mAH and the battery should be fully charged before using for the first time.

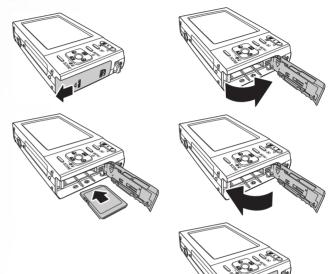
Inserting an SD/SDHC Memory Card

The camera features 16 MB internal flash memory but you may also use an optional SD/SDHC memory card for additional storage.

Follow these instructions to insert the SD/SDHC card.

- 1. Open the battery compartment on the left of the camera.
- Insert the SD/SDHC card into the memory card slot as shown. (Label side up)





To remove the SD/SDHC card, gently push the card until it pops out. Pull out the card carefully.

Note:

Please do not take in and out the SD/SDHC card while camera is processing. It will make unexpected error or image damaged.

Charging the Battery

- 1. Insert the battery into the camera and connect the DC power supply cable with the power adapter as shown in the picture.
- 2. Connect the power adapter to a live household outlet to start charging. The power LED will blink during the charging process.
- 3. Disconnect the DC power supply cable when the charging is done. When the charging is done, Power LED turns off.



Charging the Battery with USB power

- 1. Turn the power off and connect the USB cable with the camera and the computer.
- 2. The power LED will blink during the charging process.
- 3. The power LED will turn off automatically when the charging is done.
- 4. Disconnect the USB cable.

Note:

- 1. The room temperature suitable for charging the camera is 6°C ~ 36°C. Power LED blinks during the charge and turns off automatically after the charge.
- 2. The battery does not charge when room temperature exceeds 36°C or falls below 6°C. Power LED will blink faster. The battery does not charge again automatically even when the temperature comes back to 6°C ~ 36°C, once the charge stops by higher or lower temperature.
- 3. To recharge the battery, plug out the DC power supply cable or USB cable and plug in again by increasing or decreasing the temperature of the battery and the camera when room temperature is not suitable for charging.

18 Camera Setup

Turning On

Press and hold the **POWER** button to turn on the camera. To turn off the camera, press the **POWER** button again.

First Time Use

Press the **POWER** button as described in "Turning On" on page 18, a welcome screen displays momentarily on the LCD screen.

If the camera is turned on for the first time, the **Language** menu pops up automatically after powering on the camera. Press the **OK** button and select the desired language by **UP/DOWN** navigation buttons, then press the **OK** button to confirm.

After the desired language is selected, the **Date and Time** menu pops up. Press the **OK** button. Select each field and adjust the value using the navigation buttons. Press the **OK** button to confirm.





Note:

If the Date and Time is reset (when running out the battery and not in use for a long period), the Date and Time setup screen displays automatically.

Getting Started

Now that you are familiar with the layout of your camera, you are ready to start taking photos and movies.

Note:

If the camera temperature exceeds 60 °C, a warning "Camera high temperature" will appear and the camera will shut down automatically to protect the safety of the camera and the user.

Taking your First Photo

Taking a photo with the camera is very simple.

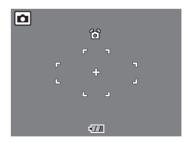
Turn the camera on and press the **SCENE** button to access the **Auto** mode.

- 1. Frame the shot on the LCD screen and press the **SHUTTER** button halfway. The camera automatically adjusts the focus and exposure. The focus bracket turns green when ready.
- 2. Press fully and hold the **SHUTTER** button to capture the image.

When a camera steady warning icon appears, hold the camera as still as possible, as a longer exposure time (more than 1/30 second) is required.

Anti-Shake Function

This function is available in **Auto** capture mode. Press the **OK** button to enable the Anti-Shake function, and press again to disable it. An **Anti-Shake** icon displays on the LCD screen when the function is activated.



20 Getting Started

Using Macro Mode

Macro mode is designed for close-up photography and can capture all detail even when your subject is very close to the camera. Press the **LEFT/MACRO** proving navigation button.

The Macro icon C displays on the LCD screen.

Macro mode range: 10-70cm(Wide) 35-70cm(Tele)

Setting the Flash Mode

You can choose from 4 flash modes to suit various lighting conditions.

Press the **UP/FLASH [4]/DELETE** in avigation button to scroll through the four modes on the LCD screen. The flash setting remains the same for subsequent photos until you change it as described above.

Æ

Auto flash: The flash fires automatically when needed.

Flash off: The flash is turned off.

3

Fill flash: The flash always fires.

A

Anti Red-eye: The flash fires twice so as to reduce the red-eye effect.

Using the Zoom in/out Function

The camera comes equipped with 3x optical zoom and 5x digital zoom that allows you to zoom in on your subject.

To use the zoom:

- 1. Press the right side of the **ZOOM** button $T \bigcirc$ to zoom in on your subject.
- 2. Press the left side of the **ZOOM** button **W** to zoom out from your subject.

Using the Self-timer and Burst Photography

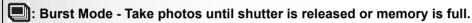
The camera comes equipped with a self-timer which allows you to take photos after a predefined delay. The burst photography feature allows you to take multiple consecutive photos by pressing and holding the **SHUTTER** button. The multi-burst photography feature allows you to take multiple (16) consecutive VGA photos by pressing the **SHUTTER** button once.

Taking your First Photo

To set the self-timer/burst mode:

- 1. Press the **RIGHT/SELF-TIMER** (5)/BURST MODE navigation button to cycle through the self-timer(or (or the local or left) and burst photography options (or left) on the LCD screen.
- 2. Once you have selected an option, frame and take your shot. In self-timer mode, the icon will flash until the time expires and the photo is taken.
- 3. After taking a photo, the self-timer automatically exit. If you want to use these functions for the next photo, press the RIGHT/SELF-TIMER (*)/BURST MODE navigation button again to activate the function.

Note:



Mi: Multi-Burst Mode - 16 photos continuously by 1 press of the SHUTTER button.

Using the AEB (Auto Exposure Bracketing) Function

When using the **AEB** (Auto Exposure Bracketing) function, the camera auto-matically takes 3 consecutive photos with different exposures by pressing the **SHUTTER** button once. For example, when the current EV compensation value is +1.0 EV and the AEB bracket interval value is set to ±0.3, the camera takes shots of the same scene with 3 varying levels of exposure: +0.7 EV, +1.0 EV and +1.3 EV.

This function is only available in **Auto** and **P-Mode**. To set the AEB mode:

- 1. Press the **MENU** button to display menu options.
- 2. Press the **LEFT/RIGHT** navigation buttons to select **AEB** setting and press the **OK** button.
- 3. Press the **UP/DOWN** navigation buttons to select from the available options:
 - AEB: Select to enable (ON) or disable (OFF) the AEB function.
 - BRACKET: Select to set the bracket interval value ranging from ±0.3 to ±2.0 EV in 0.3 or 0.4 EV increments.
 - EXIT: Select to apply new settings to the camera and return to the setup menu.

Note:

- 1. When taking AEB shots, hold the camera steadily. For the best result, use the tripod.
- 2. Flash, Burst, and M-Burst modes are not allowed when the AEB function is enabled.

Taking your First Photo

Р

AEB

EXIT

BRACKET

O OFF O

± 0.3EV

22 Getting Started

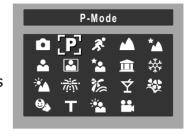
Setting the Scene Mode

The camera supports various preset modes for shooting in different environments and conditions. Each setting is configured automatically by the camera.

To select scene modes:

Press the **SCENE** button to access **Scene** menu which displays the Scene menu options.

1. Use the **LEFT/RIGHT/UP/DOWN** navigation buttons to scroll through the modes.



- Auto
- Landscape
- Self Potrait
- ∰ Snow
- 💹 Beach
- Kids & Pets
- Video

- P-Mode
- Might Landscape
- Night Portrait
- 🏝 Sunset
- Party
- T Copy

- 🔏 Sport
- A Portrait
- 🕮 Museum
- 満 Fireworks
- 🐉 Foliage
- 🖺 Backlight

2. Press **OK** to confirm your selection.

Face and Smile Detection AF/AE Function

The face (\square) and smile (\odot) detection functions can be set on and off with each press of the **DOWN/SCREEN** \square /**FACE**

DETECTION [2]/SMILE DETECTION ② navigation button in most capture modes. When the subject's face/ smile is detected, the white bracket appears to track faces/smiles while the camera or people are moving.



When the **SHUTTER** button is pressed halfway, the green focus frames appear on the LCD screen. Then the camera automatically adjusts the focus point and exposure to the optimized value. Press the **SHUTTER** button all the way to take pictures of detected faces. When a detected face smiles, the shutter is automatically released.

However, when the camera fails to detect your subject's face, a white focus bracket will be displayed according to the selected focus mode.

Taking your First Photo

Using the Self Portrait Mode

The up-to-date Self Portrait function allows you to take self-portrait shots. When enabling the Self Portrait function, a white detection frame will appear and track your face automatically. After focus on, it will take a shot without pressing the **SHUTTER** button.

To take a self-portrait shot:

- 1. Press the **SCENE** button and select Self Portrait mode, and then press the **OK** button to confirm. The Self
 - Portrait icon displays on the LCD screen.
- 2. Turn the camera lens toward your face.
- 3. The camera will automatically take a picture. This function is available in any flash mode.

Note:

- 1. The **SHUTTER** button, Macro mode, Self-timer and Burst functions could not work when enable the Self Portrait mode. Also, the **DOWN** navigation button is only for switching between Simple and Face modes.
- 2. The white focus frame only works within the effective blue frame.

Recording your First Video

You can also record video clips with the camera.

To record a video clip:

- 1. Turn the camera on and press the **SCENE** button. Use the 4-way navigation buttons to locate **Video** mode. Press the **OK** button to select.
- 2. Frame your subject using the LCD screen and press the **SHUTTER** button to start recording. The self-timer LED is steady on to indicate recording is in progress.
- 3. Press the **SHUTTER** button again to stop recording.
- 4. In playback mode (Press the button), press the **OK** button to playback the video. Press the **UP/FLASH** [4]/**DELETE** in navigation button to delete the video clip if needed.

Recording Voice Memos

The voice memo should be activated (ON) on the VOICE MEMO submenu of SETUP menu at first.

In Capture mode:

You can add a 1-minute voice memo to an image right after it's taken.

- 1. Hold the **SHUTTER** button to start recording and release the **SHUTTER** button to stop recording.
- 2. While recording, the captured image and the elapsed time are shown on the LCD screen.
- 3. For the playback, press the button, and the playback of the voice memo automatically starts.
- 4. Press the **OK** button once for playback again.

In Playback mode:

- 1. Press the **SHUTTER** button to start recording and press again to stop recording.
- 2. While recording, the selected image and the elapsed time are shown on the LCD screen.
- 3. The playback of the voice memo automatically starts.
- 4. Press the **OK** button once for playback again.

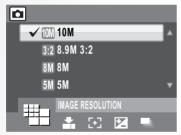
Capture Settings

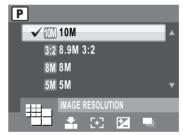
This section describes the various settings you can modify to get better results when taking photos and video clips.

The Capture Menu

To access the Capture menu:

- 1. Press the **SCENE** button. Use the 4-way navigation buttons to select the capture mode you need, then press the **OK** button to confirm.
- 2. Press the **MENU** button to display menu options and use the **LEFT/RIGHT** navigation buttons to select the function you need, then press the **OK** button to enter the selection function.
- Press the UP/DOWN navigation buttons to highlight an option and press the OK button to confirm.





4. Refer to the following sections for more detailed information about each setting.

Note:

All the options in this section may vary accoring to the different modes.

26 Capture Settings

Image Resolution

The **Image Resolution** setting refers to the size of the image in pixels. Use the **UP/DOWN** navigation buttons to select from the options. 8 settings for image resolution are available:

- 10M (3664x2748)
- 8.9M 3:2 (3664x2442)
- 8M (3264x2448)
- 5M (2576x1932)
- 3M (2048x1536)
- 2.1M 16:9 (1920x1080)
- 2M (1600x1200)
- VGA (640x480)

Image Quality

The **Image Quality** setting refers to the compression ratio of the JPG. The higher image quality, more memory space is required. Use the **UP/DOWN** navigation buttons to select from the options. 3 settings for image quality are available:

- BEST (default)
- BETTER
- GOOD

Focus Zone

Auto Mode

The **Focus Zone** setting allows you to select the number of zones the camera will focus on when taking a photo. Use the **UP/DOWN** navigation buttons to select from the options and press the **OK** button to enter. 2 setings for focus zone are avaiable:

- MULTI-ZONE (default)
- CENTER







✓ MULTI-ZONE

□ CENTER

I SELECTED AREA

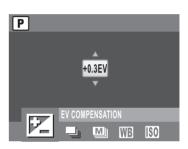
P-Mode

The **Focus Zone** setting allows you to select the number of zones the camera will focus on when taking a photo. Use the **UP/DOWN** navigation buttons to select from the options and press the **OK** button to enter. 3 settings for focus zone are available:

- MULTI-ZONE (default)
- CENTER
- SELECTED AREA

EV Compensation

The **EV Compensation** menu allows you to adjust the exposure or amount of light that enters the lens while capturing photos or videos. Use this feature to lighten or darken the image when the brightness between the subject and background is not balanced or when the subject occupies only a small part of the photograph. Use a positive (+) EV compensation for spotlight subjects, especially against dark backgrounds or scenes with low reflectivity, such as green or dark foliage.



Use the **UP/DOWN** navigation buttons to modify the value. This setting can be modified from -2.0 to +2.0 in a 0.3/0.4 increment/decrement.

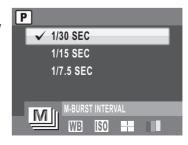
AFB

See "Using the AEB (Auto Exposure Bracketing) Function" on page 21 for more details on the setup menu options.

M-Burst Interval

The **M-Burst Interval** setting allows you to adjust the burst interval when the multi-burst function is enabled. Use the **UP/DOWN** navigation buttons to select from the options.

- 1/30 SEC (default)
- 1/15 SEC
- 1/7.5 SEC



28 Capture Settings

White Balance

The **White Balance** setting allows you to adjust the camera setting according to the ambient white light when shooting. White balance represents the degree of coolness of the light. If the light has a yellowish or reddish tinge, it is said to be warm; if it has a bluish tinge, it is said to be cool. You can select the setting and preview it on screen before confirming your choice. Use the **UP/DOWN** navigation buttons to select from the options. 5 white balance settings are available:



- AUTO (default)
- SUNNY
- TUNGSTEN
- FLUORESCENT
- CLOUDY

ISO Speed

The **ISO Speed** setting allows you to adjust the CCD light-sensitivity. Use the **UP/DOWN** navigation buttons to select from the options. 7 ISO settings are available:

- AUTO (default)
- ISO 80: For outdoor photography in bright sunlight.
- · ISO 100: For outdoor photography in bright sunlight.
- ISO 200: For outdoor or indoor photography in bright light.
- ISO 400: For indoor photography or low light environments.
- ISO 800: For moving object photography or low light environments without using flash.
- ISO 1600: For moving object photography or low light environments without using flash.



AE Metering

The **AE Metering** setting allows you to select the area of the subject or frame by which the camera measures light. Use the **UP/DOWN** navigation buttons to select from the options. 3 AE metering settings are available:

MATRIX (default): Camera metering is set for

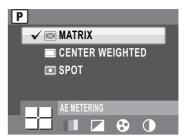
evaluating 16 zones of objects with intelligent weighting in the frame.

SPOT: Camera metering is set for the

brightness of a single object in the center of the frame.

• AVERAGE: Camera metering is set for the average brightness of objects in

the frame.



Color

The **Color** setting allows you to take photos and apply different colors or color tones for an artistic effect. Use the **UP/DOWN** navigation buttons to select from the options. 4 color settings are available:

- VIVID
- · COLOR (default)
- BLACK & WHITE
- SEPIA

Sharpness

The **Sharpness** setting allows you to enhance the finer details of your photos. Use a higher setting for very sharp photos and a lower setting for a soft-toned photo. Use the **UP/DOWN** navigation buttons to select from the options. 3 sharpness settings are available:

- HIGH
- NORMAL (default)
- LOW





30 Capture Settings

Saturation

The **Saturation** setting allows you to adjust the saturation of the colors in your photos. Use a high saturation setting for rich colors and a lower saturation setting for more natural tones. Use the **UP/DOWN** navigation buttons to select from the options. 3 saturation settings are available:

- HIGH
- · NORMAL (default)
- LOW

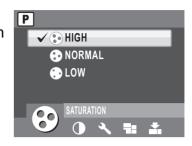
Contrast

The **Contrast** setting allows you to adjust the contrast of your photos. Use the **UP/DOWN** navigation buttons to select from the options. 3 contrast settings are available:

- HIGH
- · NORMAL (default)
- LOW

Setup

See "The Setup Menu" on page 43 for more details on the setup menu options.





Video Capture Menu

To access the video menu:

- 1. Press the **SCENE** button and scroll to **Video** mode and press the **OK** button to enable the Video function. Press again to enable the anti-shake function.
- 2. Press the **MENU** button to display the menu options.
- 3. Refer to the following sections for more detailed information about each setting.



Video Resolution

The Video Resolution setting allows you to adjust the resolution at which your videos are recorded. 2 video size settings are available:

- 640X480
- 320X240

White Balance

See "White Balance" on page 28 for more details on the setup menu options.

Color

See "Color" on page 29 for more details on the setup menu options.

Saturation

See "Saturation" on page 30 for more details on the setup menu options.

Contrast

See "Contrast" on page 30 for more details on the setup menu options.

Setup

See "The Setup Menu" on page 43 for more details on the setup menu options.

Note:

All the options in the Capture Menu may vary according to the different modes.

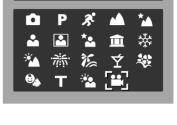
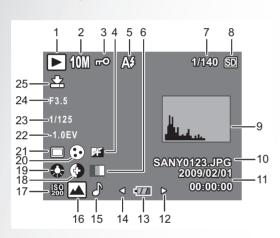




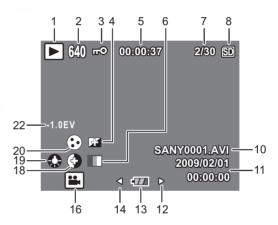
Photo & Video Playback

Playback Mode Display

Photo Playback



Video Playback



No.	Name	Icon	
1	Playback mode		
2	Image resolution	Photo mode: (10) (2) (10) (10) (10) (10) (10) (10) (10) (10	
3	Protect	ெ	
4	Sharpness	F F	
5	Flash mode	Photo mode: 😝 😝 😂 Video mode: 00:00:00 (Time of the video clip.)	
Playba	Playback Mode Display		

6	Color mode	₽
7	Quantity	1/140, 2/30
8	SD card / Internal memory	SD
9	Histogram	
10	File Name	Photo mode: SANY0001.JPG Video mode: SANY0001.AVI
11	Date and Time	2009/02/01 00:00:00
12	Next	Move to next item.
13	Battery status	— • • • • • • • • • • • • • • • • • • •
14	✓ Previous	Move to previous item.
15	Voice memo	P
16	Mode icons	Please see "Capture/Video Mode Display" on page 10 for detailed information.
17	ISO Speed	ISO ISO ISO ISO ISO ISO 1600
18	Contrast	
19	White balance	
20	Saturation	
21	AE Metering	
22	EV Compensation	+2.0EV ~ -2.0EV
23	Shutter speed	1/2000 sec. ~ 2 sec.
24	Aperture value (Max.)	F2.9 (W) / F5.2 (T)
25	Image quality	

Viewing Photos/Videos on the LCD Screen

To view your photos and video files on the LCD screen:

- 1. Press the **PLAYBACK** button . The most recent photo or video clip is displayed.
- 2. Use the **LEFT/RIGHT** navigation buttons to scroll through photos and video clips.
- 3. Press the **OK** button to begin playback of a video clip.
- 4. Press the **LEFT/RIGHT** navigation buttons at any time during playback to skip to the previous/next photo or video.
- 5. Press the **OK** button then press the **LEFT/RIGHT** navigation buttons to fast-rewind/ fast-forward during video playback.
- 6. Press the **OK** button at any time during playback to pause the video.
- 7. After the video clip finishes playing, the LCD screen displays the first frame of the clip.

Viewing M-Burst Photos

To view your multi-burst photos on the LCD screen:

- 1. Press the **PLAYBACK** button . The most recent photo or video clip is displayed.
- 2. Use the **LEFT/RIGHT** navigation buttons to scroll through photos.
- 3. When reviewing a multi-burst image, it will be displayed from the 1st frame to the 16th frame at 2 frames per second like a slideshow.
- 4. To stop the M-Burst slideshow, press the **LEFT/RIGHT** navigation buttons and skip to the previous/next image.

Listening to Voice Memo

A voice memo plays simultaneously when playing a saved image with voice memo.

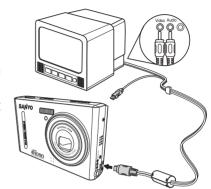
To stop a voice memo while reviewing an image, press the **OK** button.

To skip to previous/next image, press the **LEFT/RIGHT** navigation buttons.

Viewing Photos/Videos on your TV

To view images stored on the camera on your TV, you must connect via the **PC/AV** port on the side of the camera. To connect your camera to a TV:

- 1. Turn on the camera and make sure that the camera's video out format is set to the same as that of the TV. See "Video Out" on page 46 for more information.
- 2. Connect the USB/AV 3-in-1 cable to the **PC/AV** port on the camera.
- 3. Connect the other end of the cable to the TV's AV input sockets.
- 4. The LCD screen turns black and all images and video clips are displayed on the TV screen. Follow the same steps described in "Viewing Photos/Videos on the LCD Screen" on page 34.



Zooming In/Out During Playback

The camera's zoom feature can also be used during playback. This allows you to view photos in greater detail.

To zoom in/out on saved photos:

- 1. Press on the right side of the **ZOOM** button **T** Q to zoom in and on the left side of the **ZOOM** button **W** to zoom out of the photo.
- 2. Use the 4-way navigation buttons to pan across the image.
- 3. When zoomed in on a photo, press the **OK** button to crop the image. When zoomed out to the minimum, the LCD screen will display all photos and videos as a series of thumbnails.

Deleting Photos/Videos

The **Delete** function allows you to remove unwanted files stored on internal memory or a memory card.

To delete a photo/video:

- 1. In Playback mode, press the UP/FLASH [4]/DELETE
 - navigation button to display the **Delete** menu.
- 2. Press the **UP/DOWN** navigation buttons and the **OK** button to select from the 4 available options:

CANCEL: Select to cancel the action and exit to the main menu.

- VOICE MEMO: Select to delete the voice of the current image.
- THIS IMAGE/THIS VIDEO: Select to delete the current image or video.
- ALL IMAGES: Select to delete all images.

Using the Playback Menu

Access the playback menu to view further information, configure printing settings, view a slideshow, or delete photos or movies.

To access the playback menu:

- 1. Press the **PLAYBACK** button .
- 2. Press the **MENU** button to display the menu options. Use the **LEFT/RIGHT** navigation buttons to select the function from the menu, and press the **OK** button to enter.
- 3. Use the **UP/DOWN** navigation buttons to highlight an option and press the **OK** button to confirm.

DPOF

DPOF (Digital Print Order Format) allows you to specify the number of copies of a certain image that you want to print at a later date.

Use this function to tag pictures stored in your memory card with print information. You can tag all pictures to be printed or just the current picture. You can also select how many copies print and whether to include the date and time.



1/140 SD

A DELETE

▶ 10M

EXIT

THIS IMAGE

ALL IMAGES

When all images to be printed are tagged, remove the memory card and take it to a photographic shop for printing, or use it with a DPOF compatible printer.

To set DPOF:

- 1. Press the **MENU** button to select **DPOF** from the menu at the playback mode, then press the **OK** button to enter the DPOF function.
- 2. Press the **UP/DOWN** navigation buttons and the **OK** button to select from the available options:
 - THIS IMAGE: Select to print the current image.
 - · ALL IMAGES: Select to print all images.
 - EXIT: Select to exit to the main menu.
- Use the **UP/DOWN** navigation buttons to set the number of copies you wish to print.





Slideshow

The **Slideshow** function allows you to view all stored photos in a continuous sequence.

To view a slideshow:

- Press the **MENU** button to select **SLIDESHOW** from the menu, then press the **OK** button to enter the Slideshow function.
- 2. Press the **UP/DOWN** navigation buttons and the **OK** button to select from the available options:
 - START: Select to start the slideshow.
 - INTERVAL: Select to set the interval time between each photo during the slideshow.
 - Use the **LEFT/RIGHT** navigation buttons to set a value in seconds. The default setting is 5 seconds.
 - LOOP: Select to enable/disable a continuous loop of the slideshow. Select **ON** or
 - **OFF** (default) from the submenu.
 - EXIT: Select to exit to the main menu.



38 Photo & Video Playback

Resize

The **Resize** function allows you to change the image resolution.

To resize a photo:

- 1. Press the **MENU** button to select **RESIZE** from the menu, then press the **OK** button to enter the Resize function.
- 2. Press the **UP/DOWN** navigation buttons and the **OK** button to select the resize ratio you require: 6M, 4M, 2M, 1M, VGA and EXIT.
- 3. Select **EXIT** to return to the main menu.



Note:

It is only possible to scale-down image resolutions. If the current image resolution is VGA, this menu item is disabled in the Resize submenu. The ratio of the image (3:2 or 16:9) remains unchanged after resizing.

- This function only supports native pictures
- Cropped images cannot be resized
- If there is not sufficient storage space, images cannot be resized
- If the SD/SDHC card is locked, images cannot be resized
- VGA image cannot be resized

Rotate

The **Rotate** function allows you to change the orientation of a saved photo.

To rotate an image:

- 1. Press the **MENU** button to select **ROTATE** from the menu. Press the **OK** button to enter.
- 2. Press the **LEFT/RIGHT** navigation buttons and the **OK** button to rotate the select image.
 - OK: Select to rotate the image.
 - Select to exit to the main menu.





Protect

You can lock a photo or video to protect it from being accidentally erased.

To lock a photo or video:

- 1. Press the **MENU** button to select **PROTECT** from the menu and press the **OK** button to enter.
- 2. Use the **UP/DOWN** navigation buttons to select lock **©** or **EXIT**, then press the **OK** button to confirm the one you needed.
- 3. A key icon displays at the top of the screen to indicate the photo/video is now locked.





4. To cancel the protect mode, select and press the **OK** button.

Note:

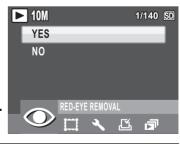
- 1. If the image is protected, the fixed image will be saved as a new file directly without asking.
- 2. If a failure occurs, the message "Cannot process correctly" appears on the screen.

Red-Eye Removal

The **Red-Eye Compensation** function allows you to perform red-eye reduction on a saved photo.

To remove red-eye from a photo:

- 1. Press the **MENU** button to select **RED-EYE REMOVAL** from the menu and press the **OK** button to enter.
- 2. Use the **UP/DOWN** navigation buttons to select **YES** or **NO**.



Note:

- 1. If the image is protected, the fixed image will be saved as a new file directly without asking.
- 2. If a failure occurs, the message "Cannot Processing Correctly" appears on the screen.

40 Photo & Video Playback

Frame Composite

The **Frame Composite** function supports 9 various decoration frame types to make your captured pictures more funny. Please note the image resolution of the picture that you want apply the frame needs being higher than 3M.

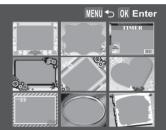
To add a frame on your picture:

- Press the MENU button to select the IMAGE RESOLUTION from menu. Make sure the current resolution is higher than 3M and then press the OK button to confirm.
- 2. After taking pictures, press the **PLAYBACK** button and select the image you want to apply a frame.
- 3. Press the **MENU** button again and use the **LEFT/RIGHT** navigation buttons to select the **FRAME COMPOSITE** from the menu and then press the **OK** button to confirm.
- Use the 4-way navigation (LEFT/RIGHT/UP/DOWN)
 button to select the frame type you like and press the OK
 button.
- 5. Press the **OK** button to save the picture as **NEW FILE** or **OVERWRITE** the original one, and then press the **OK** button again.
- 6. You may press the **MENU** button to return to the previous menu during the operation.

Note:

- 1. The function is unavailable when the storage space is not enough.
- 2. All images' size will be changed to 3M after applying the Frame Composite function; even you take the pictures' size higher than 3M.
- 3. The function does not support cropped or rotated images.







▶ 10M

EXIT

THIS IMAGE

ALL IMAGES

Move

The **Move** function allows you to move images stored in internal memory to a memory card.

To move an image:

- 1. Press the **MENU** button to select **SETUP** from the menu. Press the **OK** button to confirm.
- Select the **IMAGE STORAGE** from the menu. Press the **OK** button to confirm. Select the **INTERNAL MEMORY** from the menu. Press the **OK** button to confirm.



- 4. Press the **UP/DOWN** navigation buttons and the **OK** button to select from the 3 available options:
 - THIS IMAGE: Select to move the current image to a memory card.
 - ALL IMAGES: Select to move all images to a memory card.
 - EXIT: Select to exit to the main menu.

Note:

The Move function is only available when you choose internal memory as the storage media and an SD/SDHC card has been inserted into the camera.

Back to AUTO memory mode:

- 1. Press the **MENU** button. Select **SETUP** from the menu and press the **OK** button to confirm.
- 2. Select the **IMAGE STORAGE** from the menu. Press the **OK** button to confirm.
- 3. Select **AUTO** from the menu. Press the **OK** button to confirm.
- 4. Press the **PLAYBACK** button.

42 Photo & Video Playback

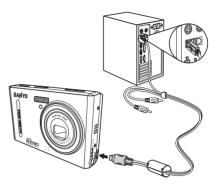
Transferring Photos/Videos to your PC

To transfer photos and videos to your PC:

Connect the camera's **PC/AV** port to a free USB port on your PC using the USB cable.

The camera's internal memory and/or SD/SDHC card appear as removable drives in the file manager. Copy the files from the drives to the directory on your PC.

Use ArcSoft PhotoImpression and ArcSoft VideoImpression (provided on the software CD) to view or edit the photos and videos respectively.



Camera Settings

The Setup Menu

The setup menu, available in capture and playback modes, allows you to configure the camera's general settings according to your preferences.

To access the setup menu:

- 1. Press the **MENU** button when in Playback or any of the capture modes.
- 2. Select **SETUP** from the menu. Press the **OK** button to enter, then the submenu appears.
- Use the LEFT/RIGHT navigation buttons to scroll through the options and press the OK button to enter further submenus and to confirm your selection. Refer to the following sections for more detailed information about each setting.



LCD Brightness

The **LCD Brightness** setting allows you to brighten or darken the LCD backlight. Press the **OK** button to enter. Use the **LEFT/ RIGHT** navigation buttons to increase or decrease the brightness.



File Number

The **FILE NO.** setting allows you to reset all file numbers assigned to each of the files on your camera. Press the **OK** button to confirm. Select **RESET** to reset or **CONTINUE** to set the file numbers in continuous order.

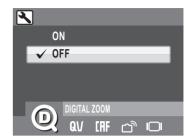


The Setup Menu

44 Camera Settings

Digital Zoom

The **Digital Zoom** setting allows you to turn the digital zoom function on or off. Press the **OK** button to confirm. Select **ON** to enable the function or **OFF** (default) to disable it.



Quick View

The **Quick View** setting allows you to view the photo that you have just taken. Once you have taken your photo, it displays on the LCD screen. If you are not satisfied with the result, you

can press the **UP/FLASH** [4]/**DELETE** button to delete the photo immediately. Press the **OK** button to confirm. Select **ON** (default) to enable the function or **OFF** to disable it.



Note:

The Quick View function is not available in Burst and M-Burst modes.

Continuous AF

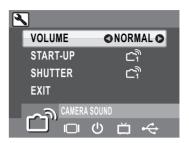
The **Continuous AF** setting allows you to turn the continuous auto focus function **ON** or **OFF**. Press the **OK** button to enter. Select ON to enable the function or **OFF** (default) to disable it.



Camera Sound

The **Camera Sound** setting allows you to adjust the camera sound level. You can also set the start-up and shutter sound when you turn on the camera and press the **SHUTTER** button. Available options are as follows:

- VOLUME: OFF, LOW, NORMAL (default), HIGH
 START-UP: Sound 1 (default), Sound 2, Sound 3
- SHUTTER: Sound 1 (default), Sound 2, Sound 3
- Select to discard the changes and return to the main menu.



Power Saving

The **Power Saving** setting allows you to adjust the length of time that the LCD screen will turn dim to save battery power. 4 options are available:

- OFF
- 15 SEC (default)
- 30 SEC
- 1 MIN

Auto Power Off

The **Auto Power Off** setting allows you to adjust the length of time after which the camera will power down when inactive. Use the **UP/DOWN** navigation buttons to select from the menu options. 2 options are available:

- 5 MIN (default)
- 2 MIN





46 Camera Settings

Video Out

The **Video Out** setting allows you to adjust the video output, depending on the type of your TV. Use the **UP/DOWN** navigation buttons to select from the menu options. 2 options are available:

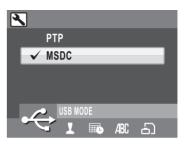
- NTSC
- PAL

USB Mode

The **USB Mode** setting allows you to select the transfer method between your camera and your PC. 2 options are available:

 PTP (PictBridge Print): When the camera is connected to a printer by a USB cable which supports Pictbridge, it can directly print images stored on the media. For details on PTP function, please see "PictBridge Print (PTP)" on page 49.





 MSDC (default): The camera is set up to act as a mass storage device, allowing only for transfer of files between your camera and PC.

Date Stamp

The **Date Stamp** setting allows you to adjust the format in which the date will appear on each photo or video. You can also deactivate this function if you wish. Setting a date stamp allows for easy sorting and the date will appear on the photo when printed. Press the **OK** button to confirm. Use the **UP/DOWN** navigation buttons to select from the menu options. 4 options are available:

- · OFF (default)
- YYYY MM DD: year-month-date format
- MM DD YYYY: month-date-year format
- DD MM YYYY: date-month-year format



Press OK when done

12 : 00

FMT

P

(Year)

02 / 01

Date and Time

The **Date and Time** setting allows you to set or adjust the date and time on your camera. To set or adjust the date and time:

Press the **OK** button to confirm.

- Press the LEFT/RIGHT navigation buttons to select the field.
- Press the UP/DOWN navigation buttons to adjust the Year value.
- In the same way, select the Month, Day, Hour and Minute fields and adjust them accordingly.

Language

The **Language** setting allows you to choose which language the OSD menu uses. Press the **UP/DOWN** navigation buttons to select your language. Press the **OK** button to confirm.



Image Storage

The **Image Storage** setting allows you to specify where photos and video clips will be stored. The camera features 16 MB internal memory but you can also insert an SD/SDHC card (See "Inserting an SD/SDHC Memory Card" on page 16 for more details). 2 options are available:

· AUTO (default):

When selected, the camera chooses the storage medium automatically. If an SD/SDHC



card is inserted in the camera, all photos and videos are stored on the card. If an external card is not detected, all photos and videos are stored in the internal memory.

INTERNAL MEMORY: All photos and videos are stored in the internal memory.

48 Camera Settings

Format

The **Format** setting allows you to erase all data in the internal memory or on the SD/SDHC card. Press the **OK** button to confirm. Use the **UP/DOWN** navigation buttons to select from the menu options. 3 options are available:

MEMORY CARD: All data on the SD/SDHC will be

formatted.

INTERNAL MEMORY: All data in the internal memory

will be formatted.

EXIT: Cancel format action.



Reset

The **Reset** setting allows you to reset the camera to the original factory default settings. This means all modifications you have made to the camera settings will be cleared. Once selected, the **Reset** screen displays a confirmation message. Press the **OK** button to enter selection function. Select **EXIT**(default) to cancel or **YES** to proceed with the Reset and press the **OK** button to confirm.



Voice Memo

The **Voice Memo** setting allows you to record a voice memo when a photo is taken. Select **ON** to enable the Voice Memo function or **OFF** (default) to disable it.



About

The **About** screen allows you to check the current firmware version of the camera.



PictBridge Print (PTP)

The **PTP** function allows you to print images captured by the camera directly without connecting the camera to a PC.

If the camera is not connected to a PTP compliant printer, an error message displays on the LCD screen. To enable PTP function, see "USB Mode" on page 46 for detailed information. If the USB mode is not set at PTP, an error message displays on the LCD screen.

When a PTP compliant printer is connected to the camera, the **Printer Connecting** screen displays on the LCD screen. The Print menu pops up automatically.





Use the **UP/DOWN** navigation buttons to select an option and press the **OK** button to confirm.



50 Camera Settings

Image Storage

See "Image Storage" on page 47 for detailed information.

This Image

Print the selected image with the current setting.

- 1. Use the **UP/DOWN** navigation buttons to select **THIS IMAGE** from the options and press the **OK** button to confirm. Use the **LEFT/RIGHT** navigation buttons to select previous/next file.
- 2. Press the **UP/DOWN** navigation buttons to set the number of copies.
- Number of copies

 2

 THIS IMAGE

✓ THIS IMAGE

EXIT

ALL IMAGES

1/140 SD

100

- 3. Press the **UP/DOWN** navigation buttons again to select the paper size.
 - DEFAULT SIZE
 - 4" x 6"
 - LETTER
 - A4
- Press the UP/DOWN navigation buttons to CONTINUE or CANCEL the action.





Index Print

Use this function to print all images in index format.



- 1. Press the **UP/DOWN** navigation buttons to select the Paper size.
 - DEFAULT SIZE
 - LETTER
 - A4
- Press the UP/DOWN navigation buttons to set the number of copies. After the number of copies is set, press the UP/ DOWN navigation buttons again to continue or cancel the action.





52 Camera Settings

DPOF Image

See "DPOF" on page 36 for detailed information.

All Images

Print all images saved in memory.

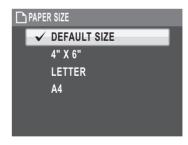
 Use the UP/DOWN navigation buttons to select ALL IMAGES from the options and press the OK button to confirm.

2. Press the **UP/DOWN** navigation buttons to set the number of copies.





- Press the **UP/DOWN** navigation buttons to select the Paper size.
 - DEFAULT SIZE
 - 4" x 6"
 - LETTER
 - A4
- 4. Press the **UP/DOWN** navigation buttons to select **CONTINUE** or **CANCEL** this action.





Specifications

	Effective Resolution Image Type	Approx. 10.0M Pixels 1/2.33" CCD
General	LCD	2.7" TFT, 230,000 Pixels
	Dimensions	94(W) x 58(H) x 21(D)mm
	Exterior Casing	Plastic housing
	Aperture (Max.)	Wide: F2.9 Tele: F5.2
	Optical Zoom	Up to 3x
	Digital Zoom	Up to 5x
	Focal Length	Wide(W): 32mm, Tele(T): 96mm
Optics	Photo Graphic Range	Normal: 60 cm ~ infinity Macro: 10 ~ 70 cm (Wide), 35 ~ 70 cm (Tele) Landscape: infinity Support seamless AF in Auto/P-mode/ Foliage modes
	Shutter Speed	2 ~ 1/2000 Sec.
	Viewfinder	None
	Field of View	99% by LCD

54 Specifications

	Auto Power Off / Time Out	Yes
	ISO Equivalent	Auto(ISO 80~320) Manual(ISO80/100/200/400/800/1600) *Sensitivity is measured in compliance with the ISO standard (ISO 12232:2006)
	External Memory	Support SD/SDHC card from 32MB to 16GB
Camera	Flash Modes	Auto, Off, Fill, Red-eye
Features	Shooting Mode	Auto, P-Mode, Sport, Landscape, Night Landscape, Portrait, Self-Porait, Night Portrait, Museum, Snow, Sunset, Fireworks, Beach, Party, Foliage, Kids & Pets, Copy, Backlight, Video
	Tripod Mount	1/4" Standard
	Macro	Yes
	Image File Formats	Still Image: JPEG (Exif2.21) Movie: MJPEG (with .AVI format)
Image Resolution	Image Quality Mode	Still Image: 3664x2748, 3664x2442, 3264x2448, 2576x1932, 2048x1536, 1920x1080, 1600x1200, 640x480 Movie Mode: 640x480@30fps, 320x240@30fps
	Quality Levels	Best, Better, Good

	DPOF	Version 1.1
	Erase Protection	Yes
	Exposure Compensation	Selectable +/-2.0EV with 0.3EV/0.4EV steps
	Sharpness	High, Normal, Low
	Color	Vivid, Color, Black&White, Sepia
	AE Metering	Matrix, Spot, Average
	Focus	Multi-Zone Center Selected area
Capture	Flash Range	Wide: Operating Range 0.6 ~ 3m @ ISO Auto Tele: Operating Range 0.6 ~ 1.8m @ ISO200 Auto
Features	Lens Thread	None
	Anti-Shake	Yes
	Aperture Priority	No
	Shutter Priority	No
	Drive Mode	Single Mode, Burst Mode, Multi-Burst (VGA@16 shots)
	Quick Delete	Yes
	Quick View	Yes
	Quick Review	No
	Self Timer	2 or 10 seconds
	Playback Magnify	Up to 6X (9 steps)
	White Balance	Auto, Sunny, Tungsten, Fluorescent, Cloudy

56 Specifications

Video output	PAL, NTSC
Stream to SD/SDHC	Yes
Speaker	Yes, Mono
Movie File Format	AVI
Movie Length	Close to 80 min. Max. file size is 4G bytes.
Microphone	Yes, Mono
Battery	NP-40 Lithium-ion
Battery Life	CIPA 220 images
Camera Interface	USB 2.0 high speed
Host Platform	Windows 2000/XP/Vista
Operating Temperature	0°C ~ 40°C
Language	English, German, French, Italian, Spanish, Portuguese, Simplified Chinese, Traditional Chinese, Russian, Turkish, Thai, Korean, Dutch
	Stream to SD/SDHC Speaker Movie File Format Movie Length Microphone Battery Battery Life Camera Interface Host Platform Operating Temperature

Troubleshooting

Problem	Action
Camera does not turn on	 The battery may be exhausted. Charge or replace the battery. The battery is installed incorrectly. Re-insert the battery observing the correct polarity.
Camera turns off automatically	Press the POWER button again to turn on the camera.
Empty battery icon is displayed on the LCD then camera turns off	Battery is exhausted. Charge or replace the battery.
LCD screen displays 'Card Requires Formatting'	Memory card format not recognized. Re-format the memory card.
LCD screen displays 'Card is Full'	Memory card is full. Replace the memory card with a new one or delete unnecessary images from the existing card.
LCD screen displays 'Card is Locked'	The card is protected by a protect switch mechanism. Move the switch to the unlock position.
Insufficient memory space to complete request	Insufficient space in memory to rotate an image or divide a video. Delete unnecessary images or videos.
No image displays on the TV screen	Incorrect TV-out type was selected. Set correct TV-out type to match your TV system.
Insufficient space on the card	Delete unnecessary images.



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