

# OPTIMA 2338mT

## User manual



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# 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.

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### 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.

Warning: 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.

### 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 98/2000/ME/XP 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. 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 provided batteries or type of battery and charger that came with your camera. Using other types of battery or charger may damage the equipment and invalidate the warranty.
- When using Li-ion battery in this product, ensure that they are inserted correctly. Inserting the battery upside down can cause damage to the product and possibly cause an explosion.
- When the camera is used for an extended period of time, it is normal for the camera body to feel warm.
- Download all pictures and remove the battery from the camera if you are going to store the camera for a long period of time.
- The type of battery and the battery power level may cause the lens to be stuck up. Ensure you use the correct battery type and use a fully charged battery.

## Using this Menu

Symbols used in this manual are explained below:

 <p>Note</p>	This indicates useful information when using your camera.
 <p>Warning</p>	This indicates warning message that should be read before using the function.

# Introduction

Congratulations on the purchase of your new digital camera. This manual provides step-by-step 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:

### For Windows:

- Windows 98/98SE/2000/XP/ME/Vista
- Processor: Pentium II 450MHz or above (Pentium 800MHz recommended)
- Memory: 512MB or above (Over 1GB recommended)
- HDD space: 200 MB or above
- 1024 x 768 pixels, 16 bit color display monitor
- Microsoft DirectX 9.0C
- USB port and CD-ROM drive

### For Macintosh

- Power Mac G3 or later
- Mac OS 10.0-10.4
- Memory: 64MB or above
- HDD space: 110MB or above
- USB port and CD-ROM drive Mplayer

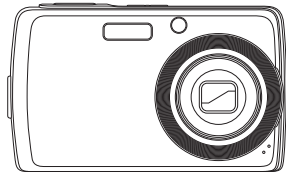
## Main Features

- 12 mega pixels resolution
- Up to 3x optical zoom and 5x digital zoom
- 1/2.3 inch CCD image sensor
- 3 inch color touch screen LCD monitor
- 32MB internal flash memory with optional external SD/SDHC card
- Supports up to 4GB of SD card, and up to 16GB of SDHC card
- Sleek metallic finish
- Easy-to-use button interface
- DCF, DPOF, PictBridge compatibility
- Slideshow feature to review your pictures and movies
- A/V output to view your pictures and movies on your TV
- USB port to transfer photos and movies to your PC

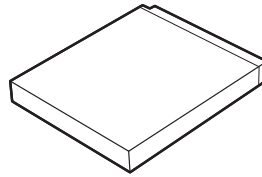


# Package Contents

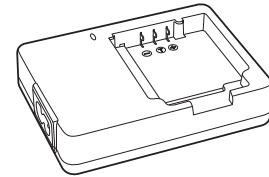
Please check the contents of your camera package. It should contain:



Digital camera



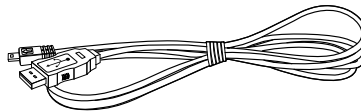
Li-ion battery



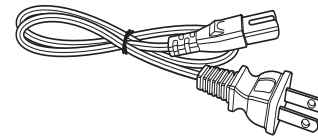
Battery charger



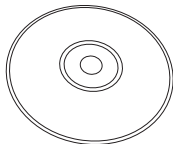
Wrist strap



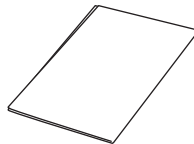
USB cable



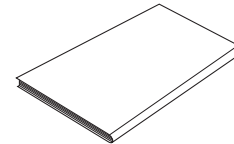
Power cord



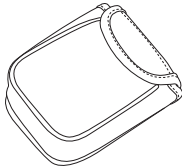
CD-ROM



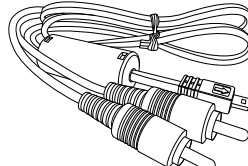
Quick Start Guide



User Manual (optional)



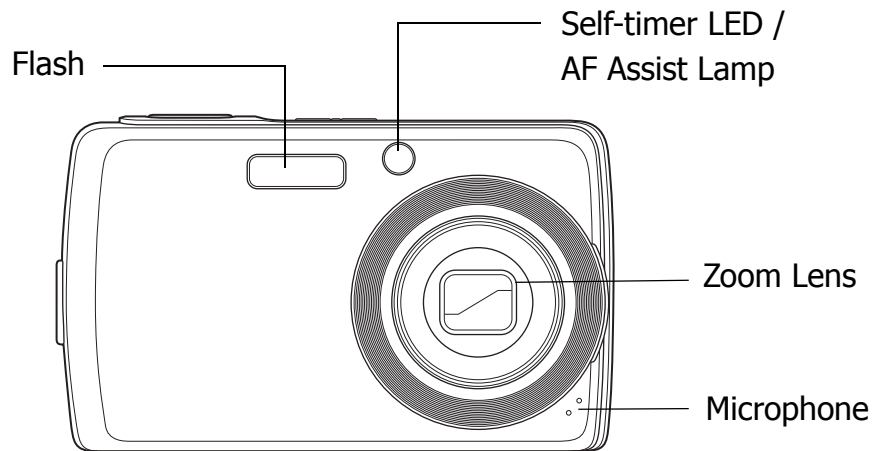
Camera pouch (optional)



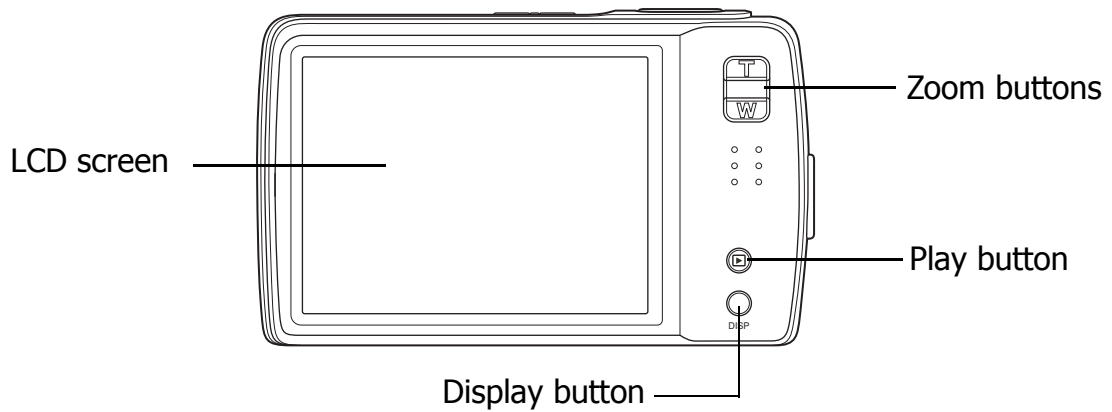
AV cable (optional)

# Camera Views

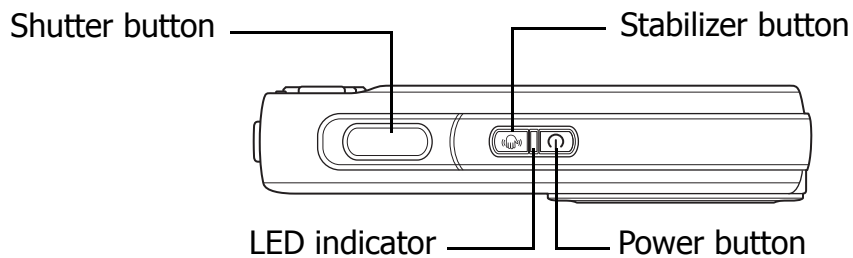
## Front View



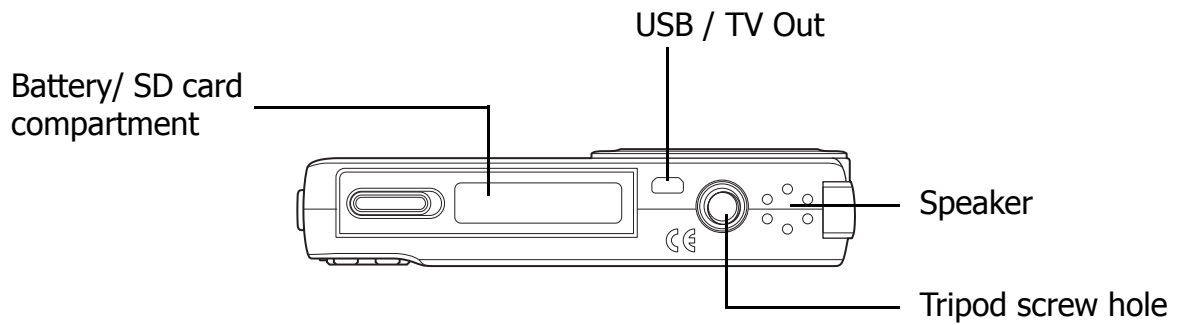
## Back View



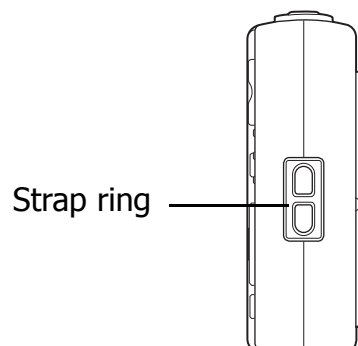
## Top View



## Bottom View



## Left View



## Camera Buttons

Your camera is equipped with different buttons for ease of use.

Button	Description
Power	Press to turn on/off the power.
Stabilizer	The stabilizer sets the optimal ISO value according to light levels to compensate for camera shake. Press to set stabilizer on/off.
Shutter	Press to capture an image or start/stop recording video or audio clip.
Playback	If the camera is turned off, press and hold for 0.3 seconds to turn on camera in Playback mode. If the camera is turned on, press to toggle camera to Playback or Record mode.
Zoom	Press the zoom buttons to change zoom focus.
Display (DISP)	Press to change LCD screen display to show OSD icons and guide lines.

# Notifications

Your camera gives feedback to users in two ways:

- LED Indicators
- Operation Sound

## Led Indicators

Your camera is equipped with 2 LED indicators:

- Operation Lamp, located on top of your camera. See "Top View" on page 3 to locate the Operation Lamp, and
- Self-timer Lamp, located in the front of the camera. See "Front View" on page 3 to locate the Self-timer Lamp.

LED	LED Status	Camera Status
Operation Lamp	Off	Power Off.
	Green (steady)	Power On. Ready to take pictures / record / playback.
	Green (fast blinking)	Camera busy or playing slideshow, deleting / copying images / recording is in progress.
	Green (slow blinking)	Data transfer is in progress.
	Amber (steady)	Power saving (sleep mode).
	Amber (very fast blinking)	In Record mode, flash is charging or AF error. In Playback mode, self-timer countdown error.
	Amber (fast blinking)	Battery low or card error.
	Amber (slow blinking)	Error message: card locked, file / folder error, no memory card, copy / format error.
Self-timer LED	Off	Self-timer off.
	Red (fast blinking)	Self-timer countdown is set between 3 to 10 seconds.
	Red (slow blinking)	Self timer countdown is set between 0 to 3 seconds.

## Operation Sound

Your camera is equipped with a speaker for operation sound.

Buzzer	Camera Status
One beep	Denotes the start of an operation like recording and printing. Also beeps when using menu and set properties.
Two beeps	Denotes completion of an operation.
Three beeps	Denotes low battery and other warning and error message like memory full and card error.
Continuous beep	Beeps every second for countdown if self-timer is set between 3 to 10 seconds. Beeps every half second if self-timer is set between 0 to 3 seconds. Beep goes off after the countdown.
Shutter sound	The shutter is pressed to record an image.

A startup sound can be set when you power on your camera in the sound setting menu. See **"Setting System Sound" on page 58**.

## Camera Memory

### Internal memory

Your camera is equipped with 32MB of internal memory. Users can store images up to 10MB. If there is no memory card inserted in the memory card slot, all images, videos and audio clips recorded are automatically stored in the internal memory.

### External storage

Your camera supports SD cards of up to 4GB in size. It also supports SDHC cards of up to 16GB. If there is a storage card inserted in the memory slot, the camera automatically saves all images, videos and audio clips in the external storage card.



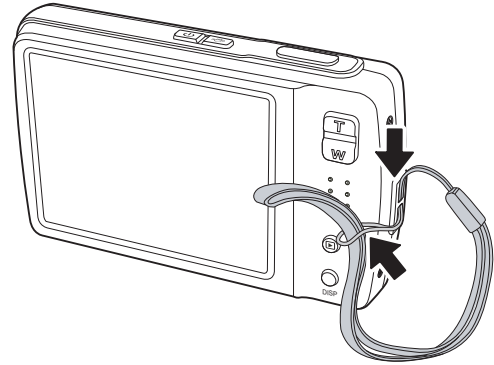
Not all cards may be compatible with your camera. When purchasing a card, please check the card's specifications and take the camera with you.

# Getting Started

## Attaching the Wrist Strap

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

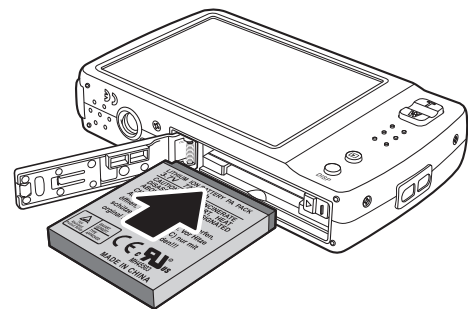
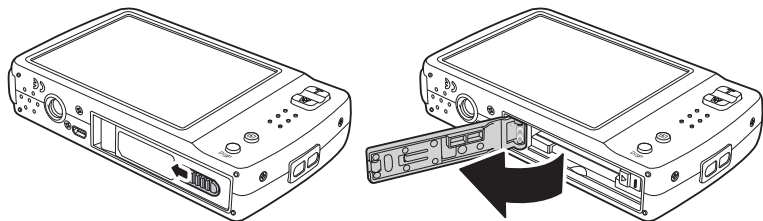
1. Insert the short loop of the strap in the strap ring.
2. Thread the larger loop of the strap through the short loop and pull tight to attach the strap to the camera.



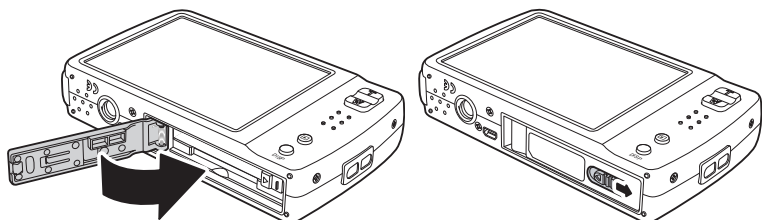
## Inserting the Battery

Follow these instructions to insert the Li-ion battery into the battery compartment. Please read **"Battery Information"** on [page v](#) before inserting/removing batteries.

1. Make sure the power is off before inserting the batteries.
2. Open the battery compartment at the bottom of the camera.
3. Insert the battery into the compartment with the terminal facing inside the camera and the battery indent next to the compartment door.



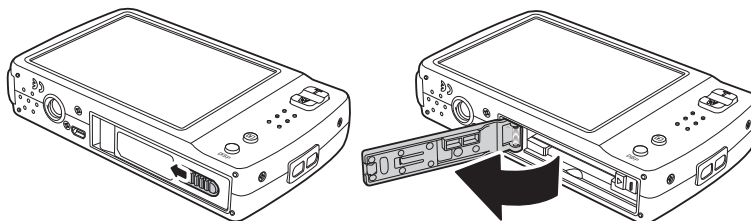
4. Close the battery compartment.



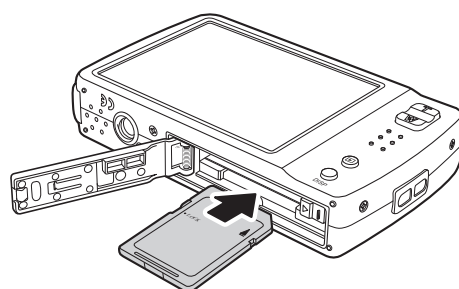
## Inserting an SD/SDHC Memory Card

Expand your camera's storage by using SD or SDHC memory cards. Follow these instructions to insert the SD/SDHC card.

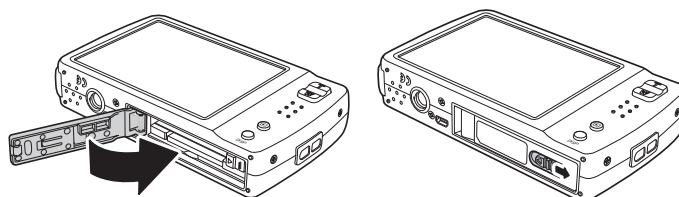
1. Open the battery compartment at the bottom of the camera.



2. Insert the SD/SDHC card into the memory card slot with the metallic part facing the front side of the camera.
3. Push the SD/SDHC card into the memory slot until it clicks into place.



4. Close the battery compartment.



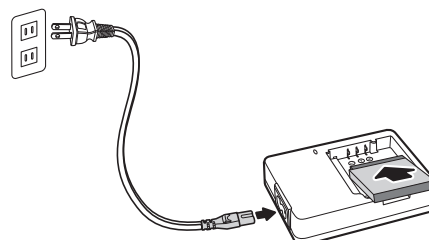
To remove the SD/MMC card, gently push the card until it pops out. Pull out the card carefully.


## Charging the Battery

The battery that comes along with your package is not charged. You need to charge the battery before using the camera.

1. Insert the battery into the battery charger as shown.
2. Connect the power cord to the battery charger.
3. Plug the power cord to the main outlet.

The battery charging time is 2 hours.



The battery icon  on the LCD screen indicates the battery level. See “[LCD Screen Layout](#)” on page 11.

# Turning the Power On and Off

There are two ways to turn on the camera:

- **Press and hold the Power button for 0.3 seconds.** The start up image displays briefly and the startup sound plays if enabled. The zoom lens extends and the camera is turned on in Record mode.
- **Press and hold the Playback button for 0.3 seconds.** The camera is turned on in Playback mode. The zoom lens are not extended.

To turn off the camera, press the Power button.



See “[Modes](#)” on page 10 to know more about Record and Playback mode.

# Initial Settings



When you turn on your camera for the first time, you will be asked to do the initial settings of your camera.

When you turn the Power button on, the Language Menu is displayed on the LCD screen for you to setup the display language.

## Setting the Language

1. Tap  ,  to move through the selection.
2. Tap to select language.

## Setting the Date & Time

1. Tap the screen to move through date and time.
2. Tap  or  to change the value of date and time.
3. Tap **SET** to apply.

Now, you are ready to start taking photos and videos.



If the batteries are removed for more than 48 hours, the Date & Time will have to be re-set.



# Modes

Your camera has two modes:

## Record mode

- Set to Record mode to capture images and record videos and audio clips.
- Record mode can be further set to:
  - **Snapshot mode.** Use this mode to capture still images. Other scene modes can be selected in Snapshot mode.
  - **Camcorder mode.** Use this mode to record video.
  - **Voice Recorder mode.** Use this mode to record voice clips.

See "[Selecting the Record mode options](#)" below.

## Playback mode

- Set your camera to Playback mode to view and edit captured images and playback videos and audio clips. You can also attach voice memo to images in this mode.

When you turn on your camera using the Power button, you are automatically turned on Record mode.




## Switching between Record mode and Playback Mode

In Record mode, press the **Playback** button to switch to Playback mode.

In Playback mode, press the **Playback** button to switch back to Record mode.

## Selecting the Record mode options

Maximize the quality and ease of use of your camera by using the different mode options. The mode options allow you to capture images with preset settings according to scene conditions.

1. Set the camera to Record mode.
2. Tap  to launch Quick-Set Bar.
3. Tap  to launch Scene Mode submenu.
4. Tap to select scene.
5. Tap  to close menu.



**Note** Scene mode icon may vary depending on the current mode.  
For more information, see "[Setting Snapshot Menu](#)" on page 29.

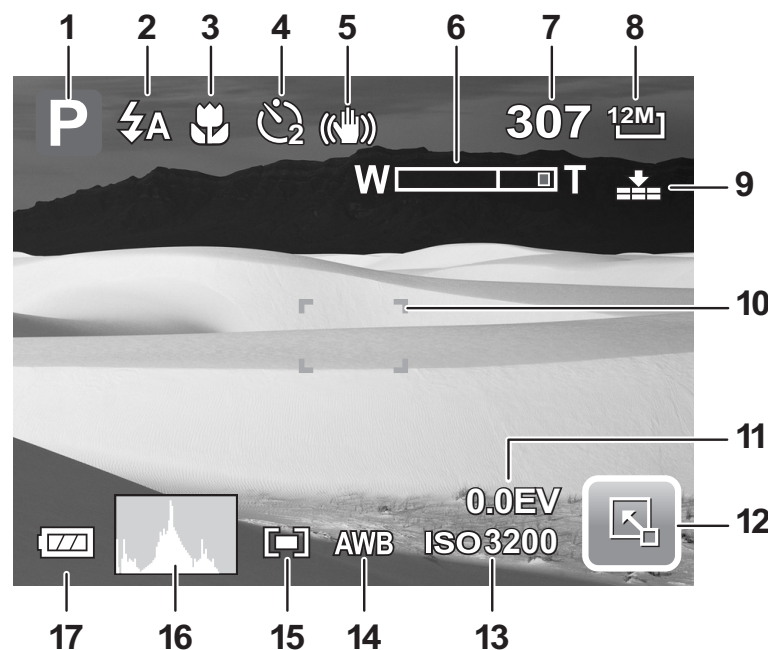
# Using the LCD Screen

The high resolution 3" touch screen LCD screen shows all important information regarding camera settings as well as the visual image of your photo or video. The display on the LCD screen is called the On Screen Display or OSD.

## LCD Screen Layout

The following illustrations show the LCD screen layout and icon descriptions.

### Record Mode Screen Layout



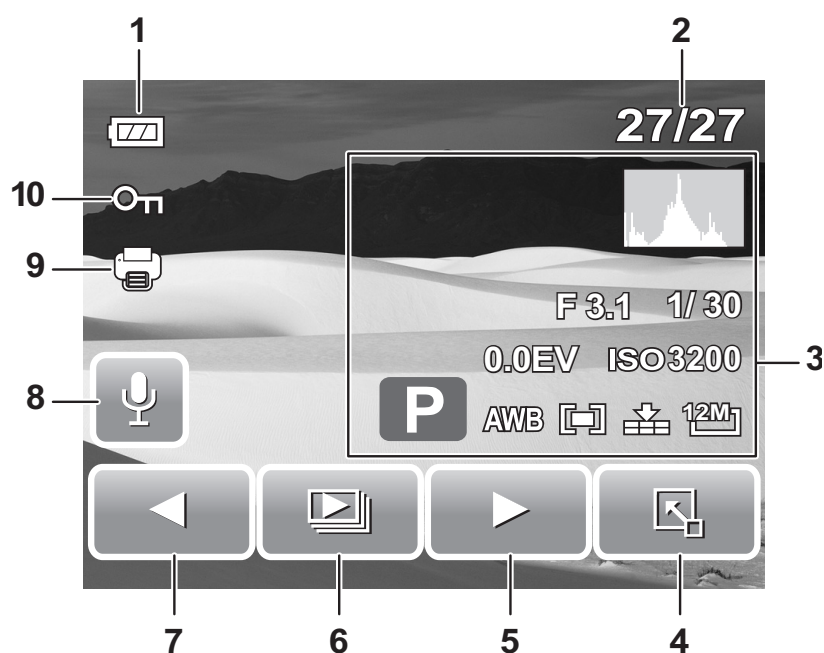
No.	Item	Description
1	Record Mode	Indicates the current record mode settings.
2	Flash	Indicates flash settings.
3	Focus Mode	Indicates focus mode settings.
4	Self-timer / Burst	Indicates drive mode settings.
5	Stabilizer	Indicates Stabilizer function is on.
6	Zoom indicator	Displays zoom.
7	Shots available	Indicates the remaining shots available.
8	Resolution	Displays resolution settings.
9	Quality	Displays quality settings.

No.	Item	Description
10	Focus frame	Use to frame subject to capture.
11	Exposure	Displays exposure settings.
12	Quick-Set Bar	Tap to activate Quick-Set Bar.
13	ISO	Displays ISO settings.
14	White Balance	Displays white balance settings.
15	Metering	Displays metering settings.
16	Histogram	Graphic display of ISO settings.
17	Battery	Indicates battery level.

### Playback Mode Screen Layout

The Playback mode display varies depending on the type of image being viewed.

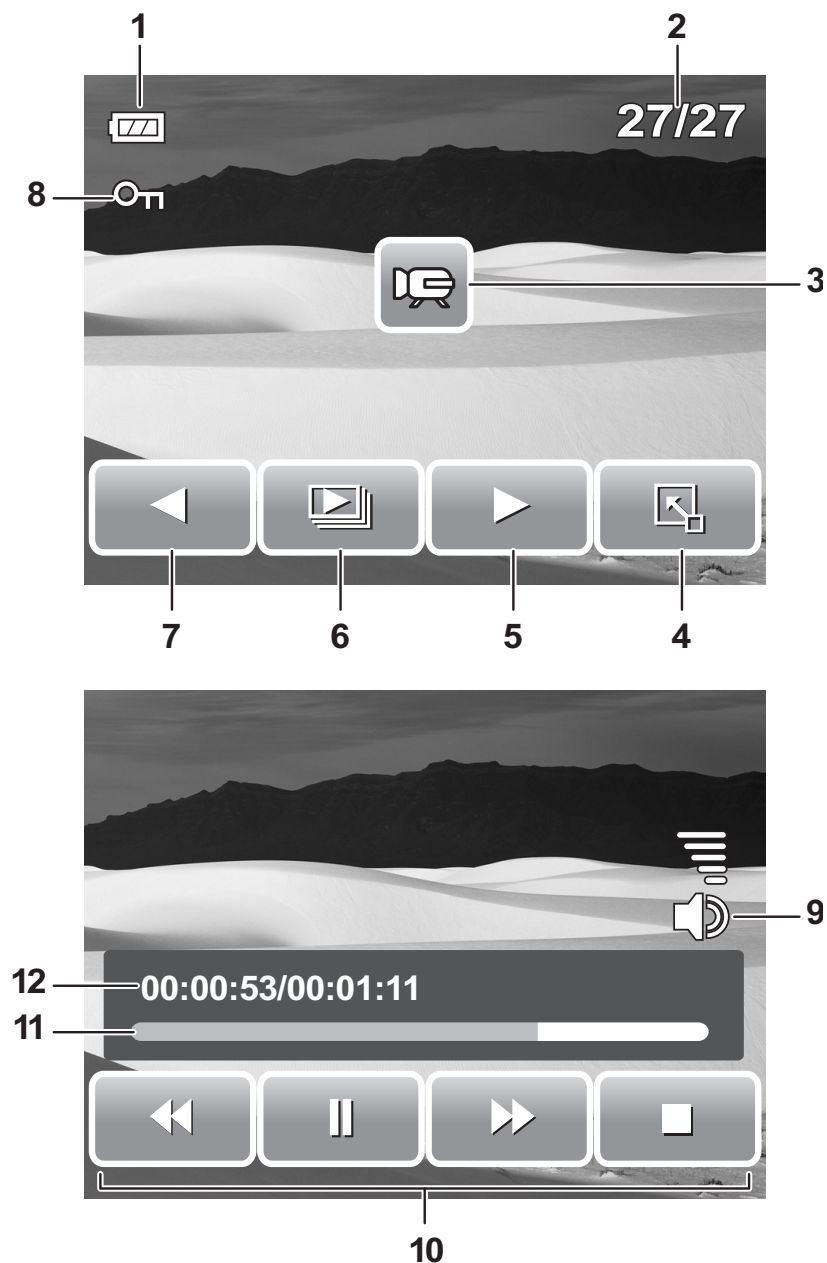
#### Playback mode display of still images:



No.	Item	Description
1	Battery	Indicates battery level.
2	File no. / Total no.	Indicates the file number over the total number of files in the memory.
3	Recording information	Displays recording information of the file.
4	Quick-Set Bar	Tap to activate Quick-Set Bar.
5	Next	Tap to display next file.

No.	Item	Description
6	Slideshow	Tap to start slideshow.
7	Previous	Tap to display previous file.
8	Voice memo	Indicates voice memo is attached.
9	DPOF	Indicates the file is marked for printing.
10	Protect	Indicates the file is protected.

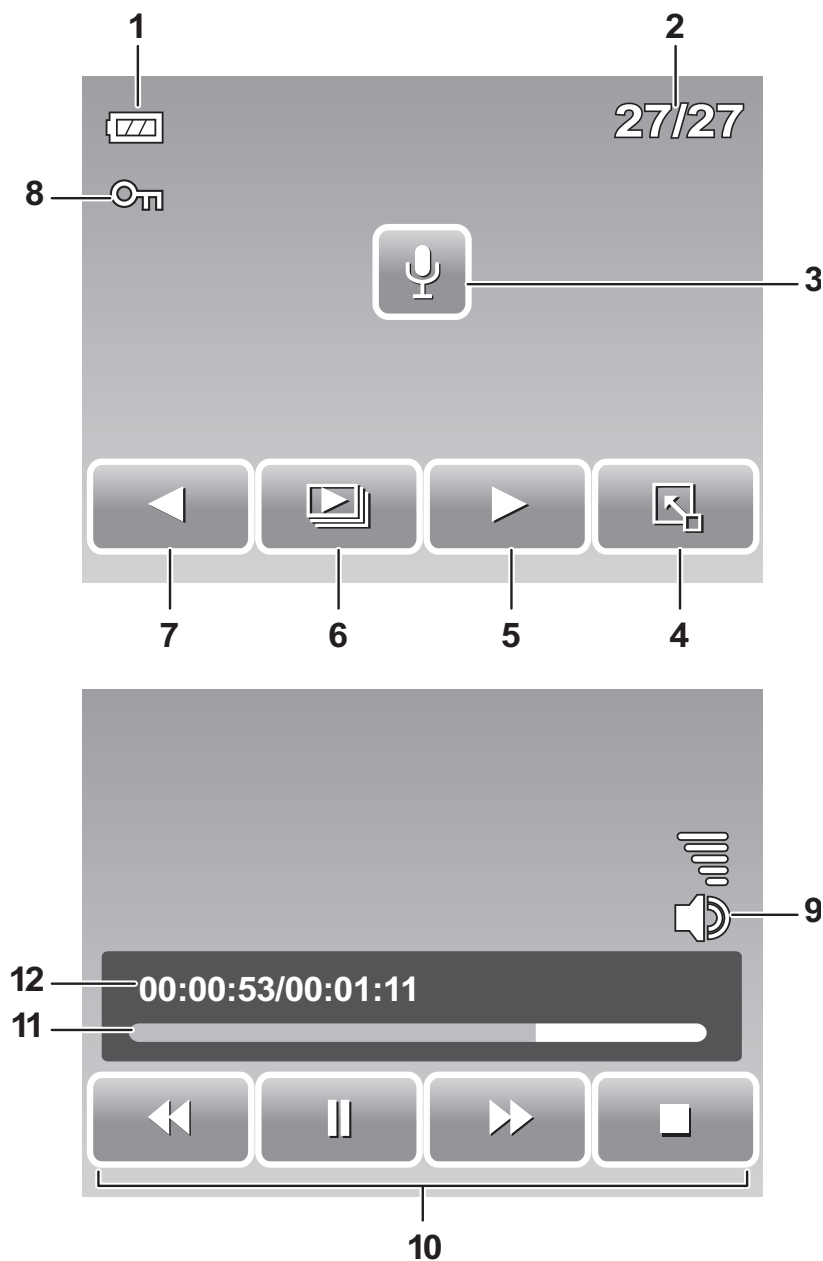
## Playback mode of videos:



No.	Item	Description
1	Battery	Indicates the battery level.
2	File no. / Total no.	Indicates the file number over the total number of files in the storage card.
3	Movie clip	Indicates the file is a movie.
4	Quick-Set Bar	Tap to activate Quick-Set Bar.
5	Next	Tap to display next file.
6	Slideshow	Tap to activate slideshow.

No.	Item	Description
7	Previous	Tap to display previous file.
8	Protect	Indicates the file is protected.
9	Volume	Adjusts and displays volume level.
10	Playback buttons	Tap buttons to play / pause / stop / fast forward / rewind movie.
11	Playing status	Displays playing status.
12	Played time	Indicates played time.

## Playback mode of audio clips:



No.	Item	Description
1	Battery	Indicates the battery level.
2	File no. / Total no.	Indicates the file number over the total number of files in the storage card.
3	Voice memo	Indicates the file is an audio file
4	Quick-Set Bar	Tap to activate Quick-Set Bar.
5	Next	Tap to display next file.
6	Slideshow	Disabled slideshow icon. Available only in image/ video playback mode.

No.	Item	Description
7	Previous	Tap to display previous file.
8	Protect	Indicates the file is protected.
9	Volume	Adjusts and displays volume level.
10	Playback buttons	Tap buttons to play / pause / stop / fast forward / rewind audio playback.
11	Playing status	Displays playing status.
12	Played time	Indicates played time.

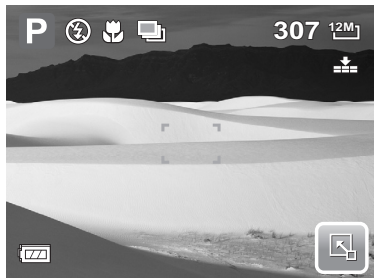


## Changing the LCD Screen Display

The type of information displayed on the LCD screen can be changed using the **Display** button.

Press the **Display** button repeatedly to change the LCD display from one type to another.

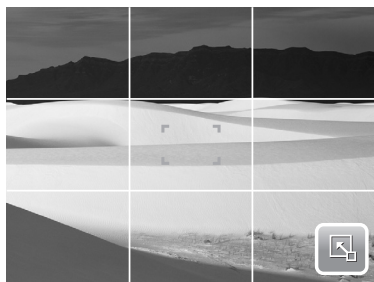
In Record Mode, the LCD display can be changed into any of the following:



OSD on



Full OSD on



Guide lines on

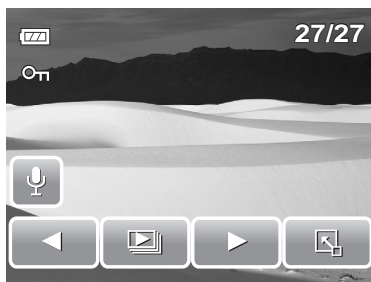


OSD off



- The OSD information may vary depending on the record mode type.
- Use the “Guide lines” to properly set image for capture.

In Playback mode, the LCD display can be changed into any of the following:



OSD on



Full OSD on



OSD off



LCD display cannot be changed in the following situations:

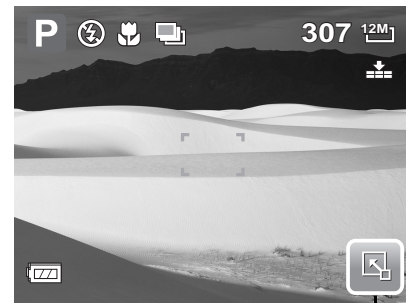
- Recording movie or audio clips
- Playing movie or audio clips
- Playing slideshow

## Using Quick-Set Bar

The **Quick-Set Bar** acts as a shortcut menu to adjust basic settings in Record and Playback Mode. The menu icons show the current settings for each function. The icons vary depending on the selected mode and its settings.

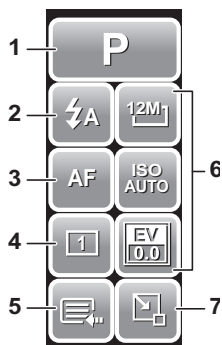
Tap  to launch Quick-Set Bar.

Tap  to close Quick-Set Bar.



Quick-Set Bar icon

### Snapshot Mode



The Quick-Set Bar in Snapshot mode contains nine menu options, three of which are user-defined.


Availability of some menu functions vary depending on the scene mode selected.

Unavailable functions or functions with preset settings appear as gray icons.

No.	Menu Item	Description
1	Scene Mode	Tap to select scene mode.
2	Flash	Tap to change flash settings.
3	Focus Mode	Tap to change focus mode settings.
4	Drive Mode	Tap to change drive mode settings.
5	Main Menu	Tap to go to Snapshot and Settings Menu.
6	Hot Key	Tap to change settings of selected function. The three hot keys can be changed by the user. See <a href="#">"Setting Hot Key" on page 60</a> .
7	Close	Tap to close Quick-Set Bar.

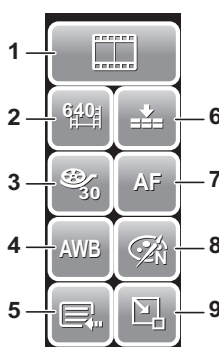
To enter the function submenu, tap the corresponding icon. For example, to access Flash mode submenu, click Flash mode icon, the submenu options pop up. See illustration on the right.

To select option, tap the desired settings icon.

Tap  to exit submenu.



## Camcorder Mode



The Quick-Set Bar in Camcorder mode contains 9 menu options. You can easily set basic video settings using the menu options here.

Functions with preset settings appear as gray icons. To activate the function submenu, tap the function icon.

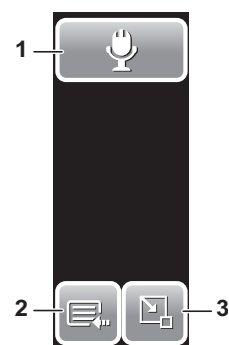
To access other camcorder settings, tap the Main Menu icon.

No.	Menu	Description
1	Scene Mode	Tap to select scene mode.
2	Movie Size	Tap to change size settings.
3	Frame Rate	Tap to change frame rate settings.
4	White Balance	Tap to adjust white balance.
5	Main Menu	Tap to go to Camcorder and Settings Menu.
6	Quality	Tap to change quality settings.
7	Focus Mode	Tap to change focus mode settings.
8	Effect	Tap to add effects.
9	Close	Tap to close Quick-Set Bar.

## Voice Recorder Mode

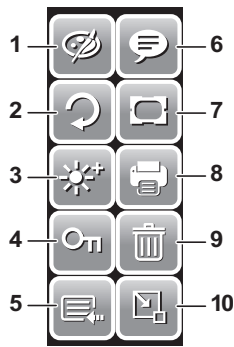
The Quick-Set Bar in Voice Recorder mode contains three menu options.

To access the settings menu, tap the Main Menu icon.



No.	Menu	Description
1	Scene Mode	Tap to change scene mode.
2	Main Menu	Tap to go to Settings Menu.
3	Close	Tap to close Quick-Set Bar.

## Playback Mode



The Quick-Set Bar in Playback mode contains 10 menu options. Unavailable functions or functions with preset settings appear as gray icons.

To activate the function submenu, tap the function icon.

To access other playback settings, tap the Main Menu icon.

No.	Menu Item	Description
1	Effect	Tap to add effects to image.
2	Rotate	Tap to rotate image.
3	Z-Lighting	Tap to adjust Z-lighting settings.
4	Protect	Tap to lock image.
5	Main Menu	Tap to go to Main Menu.
6	Add Memo	Tap to add a memo dialog to the image.
7	Photo Frame	Tap to add photo frame to image.
8	DPOF	Tap to mark image for printing.
9	Delete	Tap to delete image.
10	Close	Tap to close Quick-Set Bar.

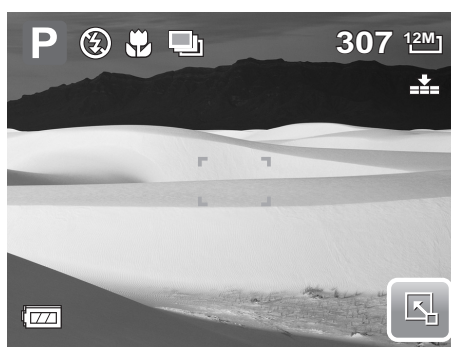
# Recording Photos, Videos and Voices


## Taking Photos

Now that you are familiar with your camera, you are now ready to take your photos.

Taking photos with your camera is very simple.

1. Turn on the camera by pressing the Power button. By doing this, your camera is also set to Record mode.
2. Frame the shot using the focus bracket on the LCD screen. See illustration on the right.
3. Half press the **Shutter** button. The camera automatically adjusts the focus and exposure. When the camera is ready to take the photo, the frame bracket turns green, the flash mode, shutter speed and aperture value are displayed.
4. Fully press the **Shutter** button to capture image.



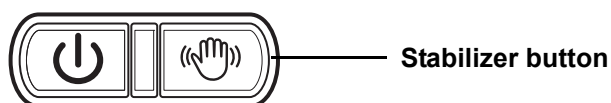
When the shake warning icon  appears, hold the camera steadily, with your arms at your side or use a tripod to stabilize the camera to prevent blurred images.

## Using the Stabilizer

The Stabilizer function prevents blurred images caused by shaking.

To activate Stabilizer

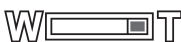
- Press the Stabilizer button on top of your camera to enable/disable stabilizer.

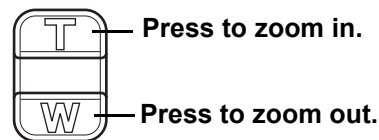


# Setting Zoom Control

Your camera features up to 3x optical zoom and up to 5x of digital zoom. Optical zoom is achieved by mechanically adjusting the lens, while digital zoom is activated through the menu settings. Please refer to **"Setting Digital Zoom" on page 58** on how to setup digital zoom.

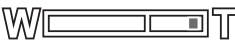
To adjust optical zoom:

1. Press the **Zoom** buttons to zoom in or zoom out an image.
2. The zoom indicator appears on the LCD screen. 



Zoom buttons

To adjust digital zoom:

1. Activate digital zoom. See **"Recording Movies" on page 38**.
2. Press the **T** button to optically zoom in to the maximum until it stops.
3. Release the button.
4. Press the **T** button again to switch to digital zoom automatically. Zooming continues. 





Optical zoom



Digital zoom

# Setting Scene Mode
















Setting the Scene mode allows you to capture images with preset settings according to the scenes or environment.











1. Tap  >  to launch Scene Mode submenu.
2. Tap to select desired scene.



Scene Mode icon may vary depending on the current settings.

The succeeding table shows the available scene mode settings.

Icon	Item	Description
	Auto	The simplest way to shoot basic images. Settings are adjusted automatically.
	Program	The camera automatically adjusts suitable shooting settings like shutter speed and aperture values.
	Intelligent Scene	The camera detects the shooting conditions and automatically switches to the appropriate scene mode. See <a href="#">"Using Intelligent Scene Mode" on page 26</a> .
	Portrait	The camera blurs the background to focus on the subject.
	Landscape	This feature is used to emphasize wide scenic views.
	Sunset	This feature enhances the red hue for recording sunset images.
	Backlight	This feature is used to capture the image of a backlight object by changing the metering.
	Kids	This feature is used to capture still images of moving kids.
	Night Scene	This feature is used to capture images with night scenery background.
	Fireworks	This feature slows shutter speed to capture fireworks explosions.
	Snow	This feature is used for snow scenes.
	Sports	This feature captures still images in high speed motions.
	Party	This feature is used for wedding or indoor party settings.
	Candlelight	This feature is used to capture warm candle light effects.
	Night Portrait	This feature is used to capture portrait pictures with night or dark background.

Icon	Item	Description
	Soft Skin	This feature enhances skin tone thus facial skin appears smooth.
	Soft Flowing Water	This feature enhances smooth effects like water or silk.
	Food	This feature is used to capture food images. The increased saturation in this mode makes the captured image more enticing.
	Building	This feature enhances the edges of captured images.
	Text	This feature enhances the black and white contrast normally used when capturing text images.
	Auction	Pictures taken in Auction mode are automatically saved under a specific folder named “_AUCT”. See <a href="#">“Folder Structure” on page 65</a> for more information.
	Smile Detection	This feature uses smile tracking to auto detect faces to capture. When smiles are detected, it continuously captures the image. See <a href="#">“Using Smile Detection Mode” on page 27</a> .
	Blink Detection	This feature detects if the subject blinked an eye when the image is captured and gives the user an option whether to save it or not. See <a href="#">“Using Blink Detection Mode” on page 28</a> .
	Camcorder	This mode is used to record movie clips.
	Voice Recorder	This mode is used to record audio clips.



## Using Intelligent Scene Mode


With the Intelligent Scene Mode, the camera automatically detects the shooting conditions and switches to the appropriate scene and settings when aiming on a subject. This feature is most useful for novice users to capture great images even without basic knowledge of photography.

### Intelligent scene icon.

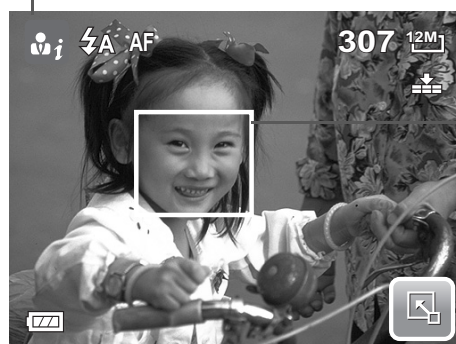
After the camera detects the shooting conditions, this icon changes to show the detected scene mode.



## To activate Intelligent Scene

1. Select  from the Scene Mode submenu.
2. Focus the camera on the subject to capture.
3. The camera detects the shooting conditions and switches to an appropriate scene mode.



### Portrait Mode Icon






The camera displays a solid white frame when a face is detected.

4. Half press the shutter button to focus the subject. The frame turns green to indicate focus is set.
5. Press the shutter button to take the shot.

The table below shows the modes supported by Intelligent scene:


Icon	Intelligent Scene Modes	Description
	Portrait	This mode is set when a face is detected.
	Backlight	This mode is set when a face is detected with an EV setting greater than 2.5.

Icon	Intelligent Scene Modes	Description
	Landscape	This mode is set when: <ul style="list-style-type: none"> <li>• There is no face detected.</li> <li>• The focus distance is more than 1.5 meters.</li> <li>• The EV setting is greater than 11 or 10.5.</li> </ul>
	Macro	This mode is set when: <ul style="list-style-type: none"> <li>• There is no face detected</li> <li>• The focus distance is within the macro range.</li> </ul> This mode can only be detected when you half press the shutter button.
	Night Scene	This mode is set when: <ul style="list-style-type: none"> <li>• There is no face detected.</li> <li>• The focus distance is more than 1.5 meters.</li> <li>• The EV setting is lower than 5 or 4.5.</li> </ul>

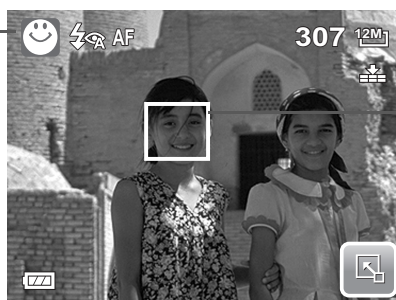
## Using Smile Detection Mode

The Smile Detection mode uses smile tracking to automatically capture images. Pressing the shutter button will enable the camera to take continuous shots whenever a smile is detected. This feature is most useful in capturing different angles and smiles of moving people. When capturing an image with more than one person, the camera detects the smile of the closest person on the center of the screen.

### To activate Smile Detection

1. Select  from Scene Mode submenu.
2. Focus the camera on the subject to capture. A solid white frame appears when a face is detected.
3. Press the shutter button to start smile detection. The solid white frame turns yellow when a face is detected and the smile detection icon blinks every second to denote camera activity.

Smile Detection Icon



Camera displays frame when smile is detected.

4. When smile is detected, the camera focus on the subject and the yellow frame turns green. The camera will automatically take a shot of the image. It will continuously take shots whenever a smile is detected.
5. To stop shooting, press the shutter button again. The smile detection icon stops blinking to denote camera inactivity.



When capturing an image with several faces, face tracking function may take up more time tracking faces for the first time.

### Using Blink Detection Mode

The Blink Detection mode tracks faces and determines captured image that contain subjects with blinked eyes. After shooting, when the camera detects that the subject blinked an eye, a menu selection appears to ask the user whether to save the image or not. This feature saves time in managing photos to be stored or deleted from the memory.

To activate Blink Detection

1. Select  from the Scene Mode submenu.

Blink Detection Icon




Detected faces are framed.

2. Half press the shutter button to focus the subject. The frame turns green to indicate focus is set.
3. Press the shutter button to capture the image. The image is automatically saved unless the camera detects that the subject blinked an eye. In this case, the screen on the right is displayed.
4. Select **Yes** to save or **No** to discard image.




## Setting Flash


When taking pictures in difficult lighting conditions, use the Flash to get correct exposure. This function cannot be activated in recording movies or continuous shooting.


1. Tap  > Flash mode icon.
2. Tap your desired flash mode.


Your camera is equipped with six flash modes:

 **Auto flash.** The flash fires automatically whenever extra lighting is needed.

 **Forced off.** The flash is turned off.

 **Forced on.** The flash fires whenever you press the shutter button regardless of lighting conditions.

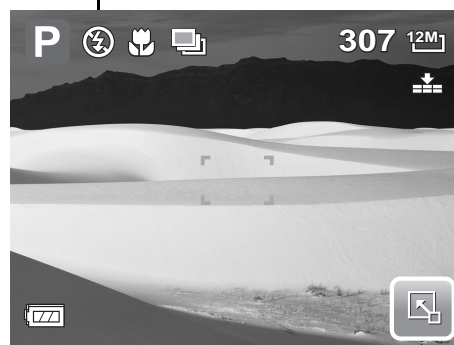
 **Auto Red-eye.** The flash fires twice to reduce the red-eye effect when necessary.

 **Forced Red-eye reduction.** The flash fires twice to reduce the red-eye effect.

 **Slow sync.** The flash fires with a slow shutter speed.









Forced off is enabled.

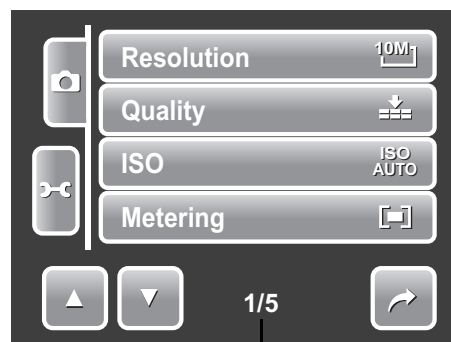


## Setting Snapshot Menu

The Snapshot menu allows you to adjust other capture settings. Some menu functions may be disabled depending on current scene mode.

In Snapshot mode,

1. Tap  >  > .
2. Tap  or  to move to the next/previous page of menu selection.
3. To select an item, tap the icon.
4. To change the submenu settings, tap the icon of desired settings.
5. Tap  to exit submenu.



Indicates current page no. / total no. of menu page.

## Resolution

The Resolution function is used to set the resolution before you capture the image. Changing the resolution affects the number of images that can be stored in your memory card. The higher the resolution, the more memory space is required.

The table below shows the resolution values for still images.



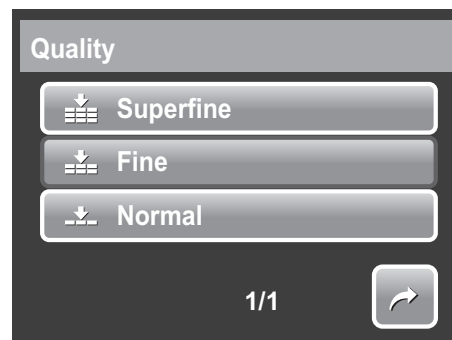
Icon	Pixel Size	Print Size Suggestion	Icon	Pixel Size	Print Size Suggestion
	4000 x 3000	A2 Size		2048 x 1536	4" x 6"
	4000 x 2672	A2 Size		1920 x 1080	HDTV
	3264 x 2448	A3 Size		640 x 480	E-mail
	2592 x 1944	A4 Size			

## Quality

The Quality function lets you adjust the quality settings of your photos before you capture them. The quality determines the amount of compression applied to your photos. More compression results in a more detailed image. However, the higher the quality, the more memory space is required in your memory card.

Available settings for still images are as follows:

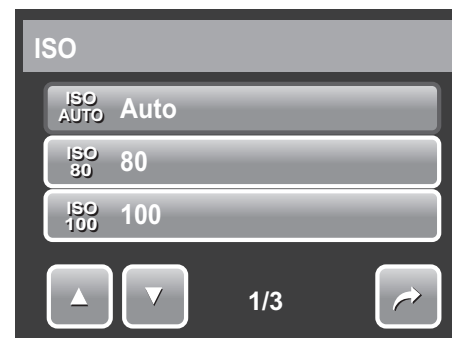
Super fine, Fine, and Normal.



## ISO

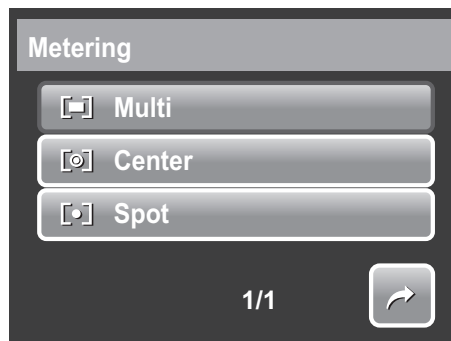
The ISO function lets you adjust the ISO sensitivity in recording still images depending on the lightning levels of your surroundings.

- Use a higher ISO setting in dim conditions and a lower ISO setting in brighter conditions.
- Available settings are: Auto, 80, 100, 200, 400, 800, 1600, and 3200.



## Metering

The Metering function lets you select the area of the subject or frame by which the camera measures light to record still images or movies.

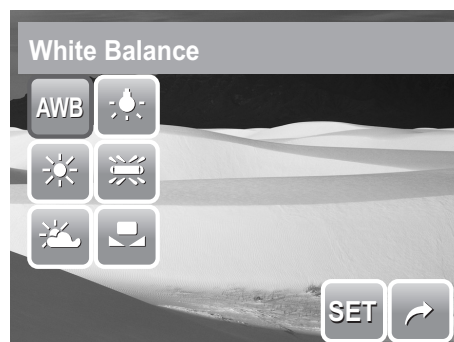


Icon	Item	Description
	Multi	The camera measures the exposure readings from multiple points in the subject area.
	Center	The camera measures the average light from the entire frame but gives more importance to the values near the center.
	Spot	The camera selects the exposure value based on the center of your picture.




## White Balance

The White Balance function allows you to adjust the camera settings according to the white light when recording still images and movies.

- When you tap a selection, you can see the preview on the LCD screen synchronously.
- Tap **SET** to save and apply settings.



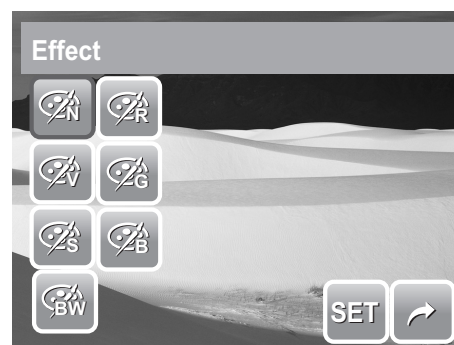
Icon	Item	Description
	Auto	The camera automatically adjusts the white balance.
	Daylight	Ideally used for bright sunny conditions.
	Cloudy	Ideally used for cloudy conditions.
	Tungsten	Ideally used for indoor photos with tungsten or halogen lighting without a flash.
	Fluorescent	Ideally used for indoor photos with fluorescent lighting conditions.








Icon	Item	Description
	Custom	Used when light source cannot be specified. When user taps this icon,  <b>WB</b> icon appears.
 <b>WB</b>	White Balance	Tap to measure the white balance manually.

## Effect

The Effect function lets you record still images or movies and apply different colors or tones for a more artistic effect.

- Tap a selection to view the effect on the LCD screen.
- Tap **SET** to save and apply settings.

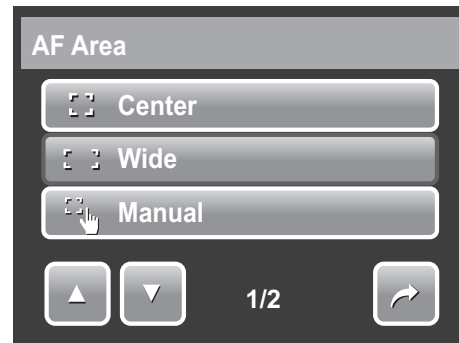


Icon	Item	Description
	Normal	The camera records normally.
	Vivid	The camera captures the image with more contrast and saturation emphasizing on the bold colors.
	Sepia	Images are captured in sepia tones.
	B&W	Images are captured in black and white.
	Vivid Red	Captured image becomes reddish. Ideally used to record images like flowers and cars to make them more vivid.
	Vivid Green	Captured image becomes greenish. Ideally used to record images like mountains and lawns to make them more vivid.
	Vivid Blue	Captured image becomes bluish. Ideally used to record images like the sky and the ocean, to make them look more vivid.

## AF Area

Automatic Focus (AF) determines the area on which the camera focuses.

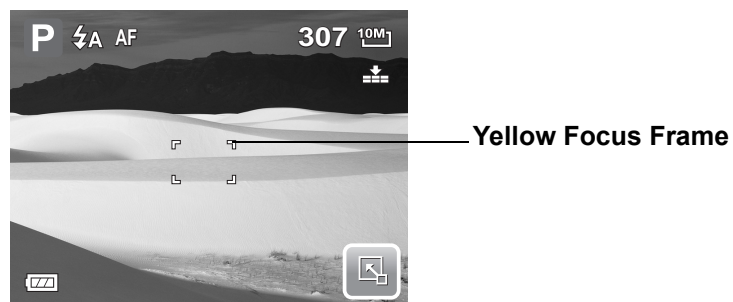
The table below shows the available AF area settings.



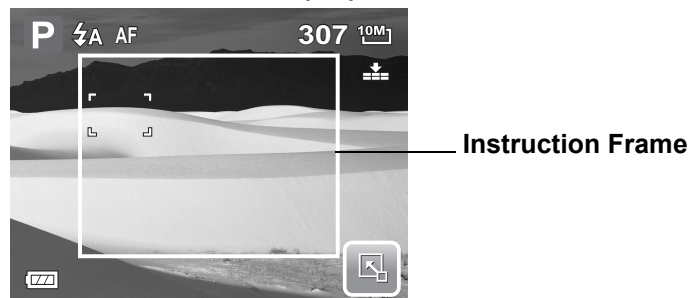
Icon	Item	Description
	Center	The focus area is fixed on the center.
	Wide	The camera automatically selects focus area within the wide frame.
	Manual	Users manually determines the area of focus.
	Touch Shot	Users manually determines the area of focus and captures the image without pressing the shutter button.
	Face Tracking	The camera automatically detects the position of a face and sets the focus.

### Using Manual and Touch Shot AF Area modes

When you exit the menu after selecting manual or touch shot mode, a yellow focus frame appears on the LCD screen.



1. Tap and hold the yellow focus frame to display the instruction frame.








2. Drag the yellow focus frame within the instruction frame to manually choose the object of focus.
3. Capture the image.
  - In Manual mode, release your finger then press the shutter button to capture image.
  - In Touch Shot mode, release your finger, the camera automatically captures the image.

After capturing the image, the yellow focus frame remains on the position where your finger released it.

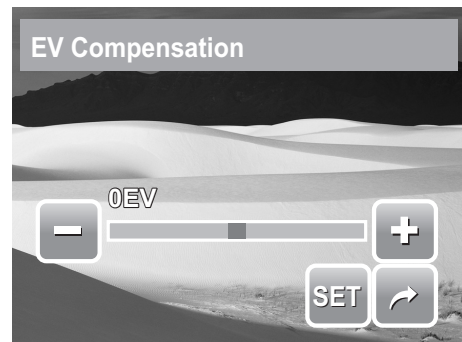
### Flash Intensity



The Flash Intensity function allows users to adjust the intensity of flash to capture image with a brighter or dimmer lighting effect. The table below shows the available settings.

Icon	Item	Description
	High	Captures image with brighter lighting.
	Normal	Normal lighting is applied.
	Low	Captures image with dimmer lighting.

### EV Compensation

In difficult lighting condition, the auto exposure function of your camera may be misled into giving the wrong readings. Exposure Value (EV) function allows you to adjust the exposure value and correctly expose your images. Available for still images only.





- To adjust EV settings, tap  and , drag or tap the slider bar to increase/ decrease the value. As you adjust the settings, the LCD screen synchronously displays the image applying the EV settings.
- Tap **SET** to save and apply changes.
- The available settings are: +2.0EV, +1.7EV, +1.3EV, +1.0EV, +0.7EV, +0.3EV, 0EV, -0.3EV, -0.7EV, -1.0EV, -1.3EV, -1.7EV, and -2.0EV.

## Photo Frame

The Photo Frame function allows users to capture image enclosed in a frame for added effects.

To activate Photo Frame:

- Tap **On**.
- The LCD screen displays the frame. Tap the  or  to move through other frame selections.






- Press the shutter button to capture image with selected frame.

## Sharpness

This function allows you to enhance or soften finer details of your photos.




The table below shows the available Sharpness settings.

Icon	Item	Description
	High	Sharpens the image.
	Normal	Normal sharpness.
	Low	Softens the image.

## Saturation




The Saturation function lets you adjust the color saturation in your photos. Use a higher saturation setting for rich colors and a lower saturation setting for more natural tones.

The table below shows the available Saturation settings.

Icon	Item	Description
	High	Enhances saturation.
	Normal	Normal saturation is applied.
	Low	Reduces saturation.

### Contrast

This function allows you to adjust the contrast of your photos. The table below shows the available Contrast settings.

Icon	Item	Description
	High	Enhances the contrast.
	Normal	Normal contrast.
	Low	Reduces the contrast.


### Date Stamp

The Date Stamp function allows you to add the recorded date and time on your photos.

The recording date and time are based on your camera's clock settings. Once date and time are stamped on a photo, they can no longer be edited or deleted.




Limitations of Date Stamp functions are as follows:

- Available for still images only.
- May slowdown AEB/ continuous shooting when Date Stamp is enabled in AEB/ Burst mode.
- If Date Stamp is enabled, digital zoom is automatically turned off.
- In vertical or rotated images, the date and time on your photos still appear horizontally.

Available settings are:  Date,  Date & Time,  Off.

### Focus Mode

This function allows users to define the type of focus to capture image. The table below shows the available settings.







Icon	Item	Description
	Auto Focus	Camera automatically focuses on a specific object.
	Macro	Camera focuses on the detail and sharpness of a very close image. If Macro is enabled, the macro icon is displayed on the LCD screen.
	Pan Focus	Camera focuses on every object.

Icon	Item	Description
INF	Infinity	Camera focuses on distant objects.

### Drive Mode

Your camera features a Self-timer and Burst which can be set in the Drive mode function. The Self-timer allows you to take photos after a pre-defined delay. While burst lets you take consecutive shots. This function is only available in recording still images. The Drive mode setting is automatically set to off when you turn off the camera.

The table below shows the available Drive mode settings.

Icon	Item	Description
	Off	Captures an image without time delay.
	10 Sec Self-timer	Sets a 10-second delay to capture image after pressing the shutter button.
	2 Sec Self-timer	Sets a 2-second delay to capture image after pressing the shutter button.
	Burst	Performs continuous shooting when the shutter button is pressed. Stops shooting when the shutter button is released.
	AEB	Automatic Exposure Bracketing (AEB) captures the same image with three different exposure settings: standard, under, and over exposure.
	Speedy Burst	Continuously captures the same image twelve times.

### AF Lamp

The AF Lamp function allows you to record images even in low light conditions.



If AF Lamp is set to Auto, the AF lamp located in the front of the camera, see **"Front View"** on [page 3](#), emits a red light by half pressing the shutter button allowing the camera to focus easily. Available settings are: [Auto] and [Off].




# Recording Movies

You can record movies with the camera, the available recording time depends on the capacity of the memory card. Videos can be recorded until the maximum memory capacity has been reached. However the length of a single video may be limited depending on the camera model.



1. To select Camcorder mode, tap  from Scene Mode menu.
2. Focus your camera on the subject that you want to take.
3. Press the Shutter button to start recording.
4. Use the  control to zoom in and zoom out an image.
5. To stop recording, press the **Shutter** button.



- The camera will automatically stop recording when the memory capacity is full.
- When the maximum capacity for a single video has been reached, simply press the shutter button again to continue recording.
- Sound cannot be recorded while pressing the  control.


## Setting Camera to Record Movies

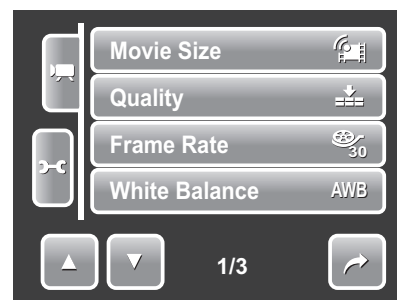


Use the Quick-Set Bar to change camera video settings. The Quick-Set Bar contains shortcuts to the following menu items: Quality, Movie Size, Frame Rate, Stabilizer, White Balance, Effect, and Main Menu. Tap an icon to open the submenu.

Use the Camcorder Menu to change other settings like: Sharpness, Saturation, Contrast, Focus Mode and AF Lamp. To access Camcorder

Menu, tap  to open Main Menu from the

Quick-Set Bar. Then tap .



## Setting Movie Size

The Movie Size function icon appears only in Movie Mode. Use this function to adjust the resolution and quality of movie clips.

The table below shows the available size and corresponding image quality settings.



Icon	Frame Size	Image Quality
	640 x 480	High Quality
	848 x 480	High Definition Picture Quality
	320 x 240	Normal
	640 x 480	YouTube(R) Mode

## YouTube(R) Mode

YouTube(R) Mode allows you to record movies with predefined video settings for easy upload to the YouTube(R) website.

YouTube(R) supports two file upload standards:

- Single File Uploader. The maximum movie file size is up to 100 MB.
- YouTube(R) Uploader. The maximum movie file size is up to 1 GB.

Most uploaded movie length ranges within 5 minutes, although you can upload a maximum movie length of 10 minutes.

Therefore when you record using the YouTube(R) mode, the following standards are followed:

- Recorded movies are set to YouTube(R) standard resolution of 640 X 480.
- Recording automatically stops when the file reaches 100 MB.

Recorded movies in the YouTube(R) mode are stored following the DCF rule, however movies are saved in a specific folder named "UTUBE". For more details, please refer to **"Folder Structure" on page 65**.

- To record a YouTube movie, select from the Movie Size function.

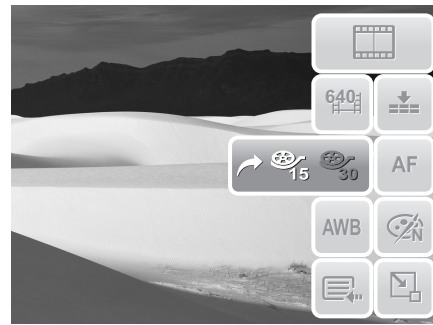
Available recording time for a YouTube(R) movie is up to 10 minutes.

## Setting Frame Rate



Frame Rate function appears only in Camcorder mode. Use this function to specify the number of frames to capture per second (fps). The higher the frame rate value, the smoother the movie playback will be.

To set frame rate, tap  to activate Quick-Set Bar. Tap the frame rate icon, then select option.

Available settings are:  15fps, and  30 fps.



## Setting White Balance




To set white balance, tap  to activate Quick-Set Bar. Tap  to display the white balance screen.

See **"White Balance"** on page 31.

## Setting Quality

The quality determines the amount of compression applied to the movie. More compression results in a more detailed image. However, the higher the quality, the more memory space is required in your memory card.

To set the quality, tap  to activate Quick-Set Bar. Tap the quality icon, then select an option.

Available settings are:  Super fine,  Fine, and  Normal.





## Setting Focus Mode

This function allows users to define the type of focus when recording movies.

To set focus mode, tap  to activate Quick-Set Bar. Tap the focus mode icon, then select option.



The table below shows the available settings.



Icon	Item	Description
	Auto Focus	Camera automatically focuses on a specific object.
	Macro	Camera focuses on the detail and sharpness of a very close image. If Macro is enabled, the macro icon is displayed on the LCD screen.


Icon	Item	Description
PF	Pan Focus	Camera focuses on every object.
INF	Infinity	Camera focuses on distant objects.

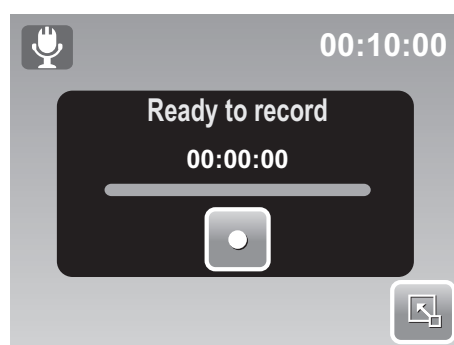
## Setting Effect



To set an effect, tap  to activate Quick-Set Bar. Tap  to display the effect screen.

See **"Effect"** on page 32.

## Recording Voices

1. To select Voice Recording mode, tap  from Scene Mode menu. The Voice Recording Quick-Set Bar is displayed on the LCD screen.
2. Press the **Shutter** button to close the Quick-Set Bar and display the Ready to record screen. See picture on the right.



3. Tap  or press the **Shutter** button to start recording.
4. Tap  or press the **Shutter** button again to stop recording.



**Note** Voice recording will automatically stop when the maximum memory capacity is full.




# Playback

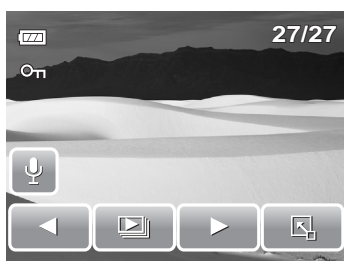
View images, videos and voice recordings through your camera's Playback mode.

## Viewing in Single Navigation

The Single navigation mode displays the image one by one on the LCD screen. To view images/videos/voice recordings, follow the steps below.

1. Press the **Playback**  button to set or turn on the camera to Playback mode.
2. The LCD screen displays an image. To understand the icons and other information on the screen, please see **"Playback Mode Screen Layout" on page 12.**

Still Image






Movie




Audio Clip



3. Tap  or  to view next/previous image/video/voice recording.
4. To access Quick-Set Bar, tap .
5. To play a video or a voice recording, tap anywhere on the LCD screen. See **"Playing Movies" on page 45** and **"Playing Voice Recording" on page 45** for more details.



## Viewing Slideshow

The Slideshow function allows you to view all stored images or videos in still image format in a continuous sequence.

To view slideshow, tap .



To stop slideshow, tap anywhere on the LCD screen.

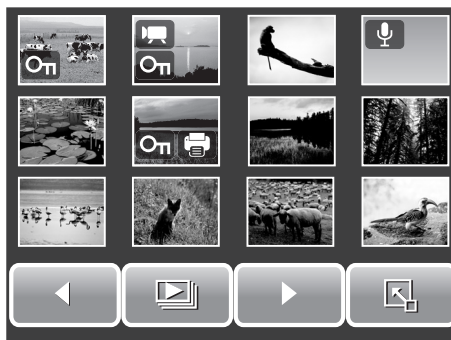
## Viewing in Drag & Play Mode

1. Press the **W** button to view files in Drag & Play mode.
2. Flick your finger to the left/right or tap  or  to change display to previous/next file.
3. Tap the image/video/voice recording to view/play it normally.






## Viewing Thumbnails

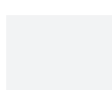


1. From single navigation mode, press the **W** button twice to view 12-image thumbnails.
2. Tap  or  to view next/previous page.
3. Tap a thumbnail to view it normally.



### Thumbnail icons

When you view the thumbnails, some images may contain icons. These icons indicate the type of file or recording.

Icons	Type	Description
	Voice Memo	Indicates that a voice memo is attached to the image.
	Movie	Indicates a recorded movie. The image displayed is the first frame of the movie clip.
	Locked File	Indicates that the image has been locked. Locked files cannot be edited or deleted.

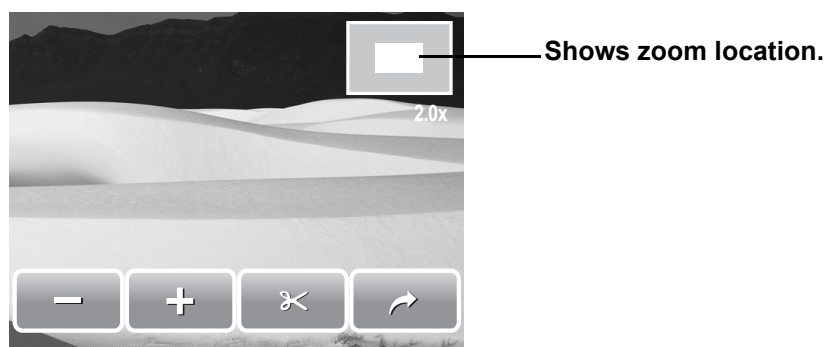
Icons	Type	Description
	Voice Record	Indicates a voice recording file.
	DPOF File	Indicates the file is marked for printing.
	File Error	Indicates an error file.

To display or hide the icons on the thumbnail view, press the **Display** button.

## Zooming Images

The zoom view function works with still images only.

In normal view, press the **T** button to activate zoom function, see picture below.



You can zoom view an image from 1x to 12x. To achieve desired zoom view, press the **T** button repeatedly to increase zoom. Press the **W** button to decrease zoom.



You can also tap  or  to decrease/increase zoom.


To trim an image based on selected zoom view, tap .

To exit zoom function, tap .

## Trimming an Image

The Trim function allows you to trim an image to another image size. This function is only available for still images.







1. View the image to trim.
2. Press the **T** button to activate zoom function.
3. Press the **T/W** button or tap  or  repeatedly until desired image view to trim.

4. Tap  to trim image.
5. Confirm trim, select whether to:
  - **Yes.** Save changes to a new file.
  - **No.** Discard changes.
  - **Overwrite.** Save and apply changes to the current file.

## Playing Movies






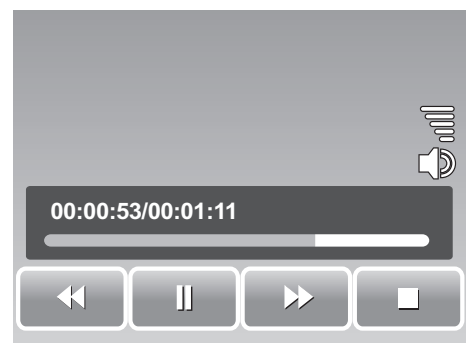
1. Select video to play. A video file has a video icon displayed on screen. See picture on the left.
2. Tap anywhere on the LCD screen to play video.
3. During playback, tap anywhere on the LCD screen to display the video toolbar.




4. During playback, use the  to control volume. Press the **T/W** button to increase/decrease volume.
5. Tap  or  or the slider bar to rewind or fast forward the movie.
6. Tap  to pause playback. Tap  to resume playback.
7. Tap  to stop playback. The LCD screen displays the movie frame image in Single navigation mode.



## Playing Voice Recording







1. Select the voice recording file to play.
2. Tap anywhere on the LCD screen to play recording.
3. During playback, use the  to control volume. Press the **T/W** button to increase/decrease volume.
4. Tap  or  or the slider bar to rewind or fast forward the voice recording.

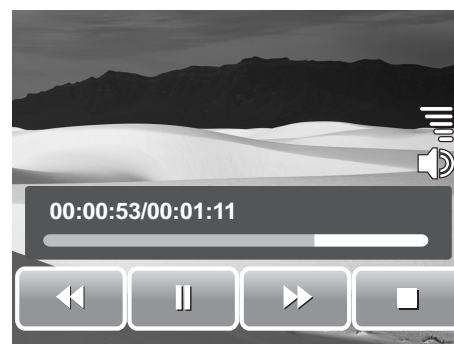
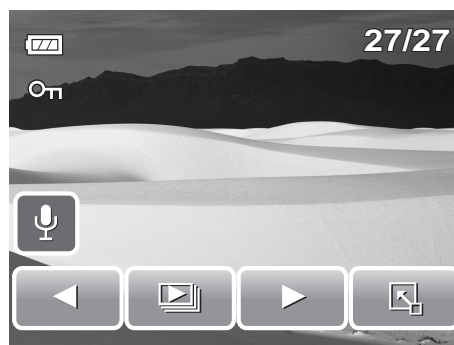


5. Tap  to pause playback. Tap  to resume playback.
6. Tap  to stop playback. The LCD screen displays the movie frame image in Single navigation mode.

## Playing Voice Memo



Voice memo is recorded and attached separately to a captured image. See **"Voice Memo" on page 54** on how to record voice memo.

1. Select the image with voice memo. An image file with voice memo has a voice memo icon located on the left side of the LCD screen.
2. Tap the voice memo icon to play voice memo.
3. During playback, use the  to control volume. Press the **T/W** button to increase/decrease volume.
4. Tap  or  or the slider bar to rewind or fast forward the voice recording.
5. Tap  to pause playback. Tap  to resume playback.
6. Tap  to stop playback. The LCD screen displays the movie frame image in Single navigation mode.



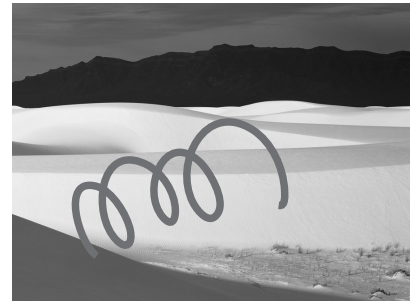
## Using My Drawings


My Drawings function lets you draw freely and add other graffiti on still images. This function is not available for images captured with VGA and 16:9 HD resolution.

1. View image to add drawings to.
2. Tap  > . The My Drawings toolbar is displayed on the LCD screen.
3. Tap on an icon to use the function. For example, to draw freely on the image, tap the pen icon.
4. Press the **Display** button to hide the toolbar.



5. Start drawing on the image. See picture on the right.
6. When done, press the **Display** button to display the toolbar.













7. Tap  to save changes.
8. Select whether to:
  - **Yes.** Save changes to a new file.
  - **No.** Discard changes.
  - **Overwrite.** Save and apply changes to the current file.







### Using My Drawing Toolbar

The toolbar icons may vary depending on the current function selected.

Icon	Description	Icon	Description
	Tap to draw freely on the photo.		Tap to select color.
	Tap to stamp symbols on the photo.		Tap to undo/redo last operation.
	Tap to erase drawings on the photo.		Tap to reset all operations.
	Tap to select pen stroke.		Tap to save changes.
	Tap to select stamp stroke.		Tap to exit My Drawings.

## Adding a Memo Dialog to an Image


The Add Memo function lets you add a memo dialog to a still image. This function is not available for images captured with VGA and 16:9 HD resolution.

1. View the image to add memo dialog to.
2. Tap  > . The My Drawing toolbar is displayed on the LCD screen.
3. Tap  to use add memo function. Tap  to select dialog stroke.
4. Press **Display** button to hide the toolbar.



5. Tap on the LCD screen position to add memo dialog. See picture on the right.
6. When done, press **Display** button to display the toolbar.







7. Tap  to save changes.
8. Select whether to:
  - **Yes.** Save changes to a new file.
  - **No.** Discard changes.
  - **Overwrite.** Save and apply changes to the current file.



## Rotating Images





The Rotate function lets you change the orientation of a saved photo. This function is only available for still images. Rotated images are saved as the current file.

1. View the image to rotate.
2. Tap  > .
3. Tap  or  to rotate image 90° counter clockwise / clockwise. Tap the icons repeatedly until desired orientation is achieved. The preview on the LCD screen changes synchronously.
4. Tap **SET** to apply and save changes.



## Adding Photo Frame

For a more artistic effect, you can frame your still images using the Photo Frame function. This function is for still images only. However, photo frame is not available for images captured in 16:9 HD resolution.

1. View the image you want to add photo frame to.
2. Tap  > . The framed image is displayed on the LCD screen.
3. Tap  or  to move through the photo frame selections.







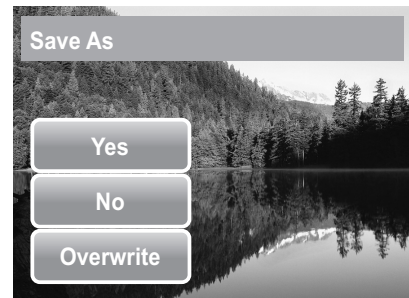
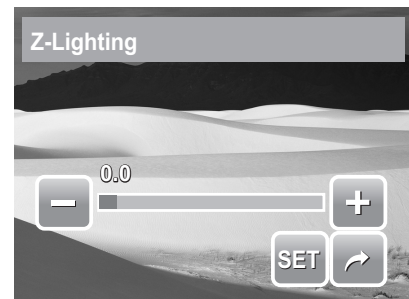
4. Tap **SET** to add selected photo frame.
5. Select whether to:
  - **Yes.** Save changes to a new file.
  - **No.** Discard changes.
  - **Overwrite.** Save and apply changes to the current file.



## Setting Z-Lighting

The Z-Lighting function allows you to manually adjust the exposure to compensate for inadequate lighting conditions. This function is only applicable for still images. The edited image can be saved as a new file.



1. View the file to adjust lighting.
2. Tap  > .
3. Tap  or  or the slider bar to increase/decrease the value. As you adjust the settings, the LCD screen synchronously displays the image applying the new settings.
  - Available settings are: 0.0, 1.0, 2.0, 3.0, and 4.0.
4. Tap **SET** to continue.
5. Select whether to:
  - **Yes.** Save changes to a new file.
  - **No.** Discard changes.
  - **Overwrite.** Save and apply changes to the current file.



## Setting DPOF

The Digital Print Order Format (DPOF) function allows you to mark still images in your memory card for printing and allows you to specify the number of copies that you want to print at a later date. When all images to be printed are marked, take the memory card to a digital printing service, or use a DPOF compatible printer.

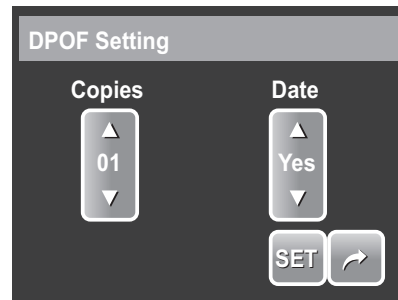
### To set DPOF on a single file

1. View the image that you want to set DPOF on the LCD screen.
2. Tap  > . See picture on the right.
3. To set DPOF on currently viewed file, tap **Yes**.





4. Set the number of copies and date stamp on/off. Tap the up/down keys to change settings.
5. Tap **SET** to save settings.



## To set DPOF on multiple files

1. Tap > .
2. Tap **Select**. The LCD screen displays files in thumbnail view.
3. Tap a thumbnail to mark file for printing. The DPOF icon appears on the thumbnail.
4. Tap **DPOF** to continue.
5. Select **Yes** to confirm protect.
6. Set the number of copies and date stamp on/off.
7. Tap **SET** to save settings.



## To set DPOF on all files

1. Tap > .
2. Tap **All**.
3. Confirm to set DPOF on all files.
4. Set the number of copies and date stamp on/off.
5. Tap **SET** to save settings.



## To set DPOF off

Files marked for printing can be set off following the same procedures above.





If the camera is in thumbnail mode, tapping > displays the DPOF multiple files interface.

You can specify up to 30 copies for DPOF. If you specify 0 copies, the DPOF setting of that image is automatically disabled.



# Protecting/Unprotecting Files

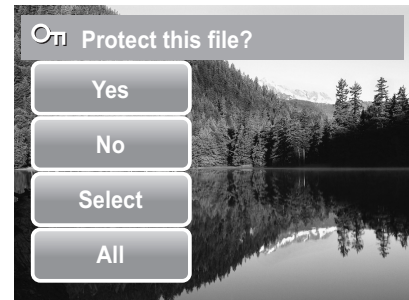
The Protect function lets you lock a file to protect it from being modified or accidentally erased. A protected file has a lock icon when viewed on Playback mode.





If the camera is in thumbnail mode, tapping  >  displays the protect multiple files interface.

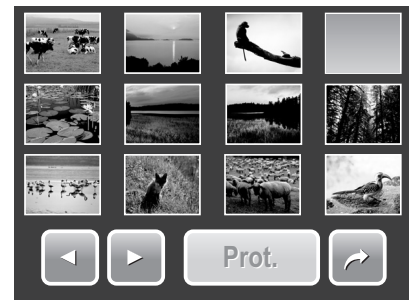
## To protect a file

1. View image/video/voice recording you want to protect on the LCD screen.
2. Tap  > . See picture on the right.
3. To protect currently viewed file, tap **Yes**.




## To protect multiple files

1. Tap  > .
2. Tap **Select**. The LCD screen displays files in thumbnail view.
3. Tap a thumbnail to mark file for protection. The protect icon appears on the thumbnail.
4. Tap **Protect** to protect marked files.
5. Select **Yes** to confirm protect.





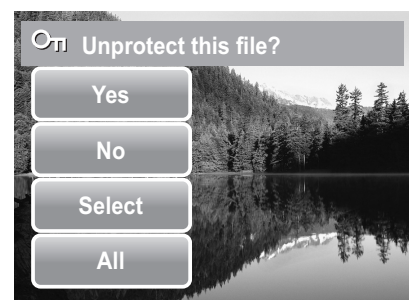
## To protect all files

1. Tap  > .
2. Tap **All**.
3. Confirm to protect all files.



## To unprotect files



Protected files can be unlocked following the same procedures above. Tapping  >  displays an unprotect confirmation message. See picture on the right.





## Deleting Files

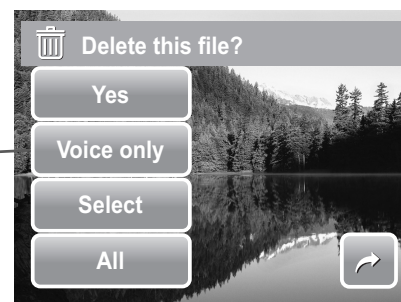
The Delete function lets you remove unwanted files in the internal memory or on the memory card.



Protected files cannot be deleted. Make sure the file is not protected before proceeding. To unprotect a file, see “[To unprotect files](#)” on page 51. If the camera is in thumbnail mode, tapping  >  displays delete multiple files interface.



### To delete a file

1. View image/video/voice recording file you want to delete on the LCD screen.
2. Tap  > . See picture on the right.
3. To delete currently viewed file, tap **Yes**.





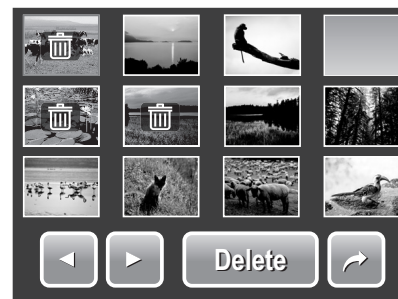
Voice only icon is enabled when viewed image has a voice memo attached.

### To delete a voice memo

1. View the image file with voice memo attached on the LCD screen.
2. Tap  > .
3. To delete the voice memo only, tap **Voice only**.

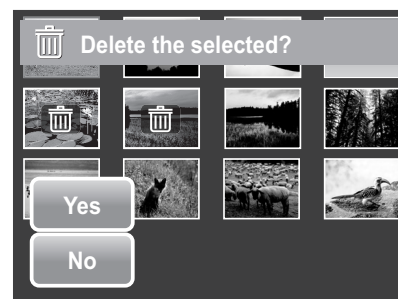
### To delete multiple files

1. Tap  > .
2. Tap **Select**. The LCD screen displays files in thumbnail view.
3. Tap a thumbnail to mark file for deletion. The recycle bin icon appears on the thumbnail.
4. Tap **Delete** to delete marked files.
5. Select **Yes** to confirm delete.



### To delete all files







1. Tap  > .
2. Tap **All**.
3. Confirm to delete all files.



# Setting Playback Menu

The Playback menu allows you to edit images, delete files, records voice memo, and setup other playback settings.

To go to Playback Menu:

1. Tap  >  > .
2. Tap  or  to move to the next/previous page of menu selection.
3. To select an item, tap the icon.
4. To change the submenu settings, tap the icon of desired settings.
5. Tap  to exit submenu.



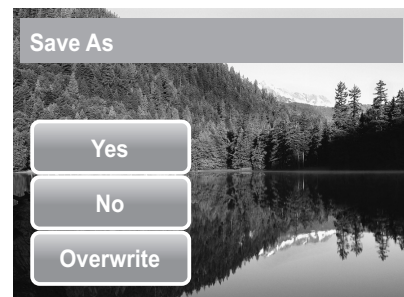
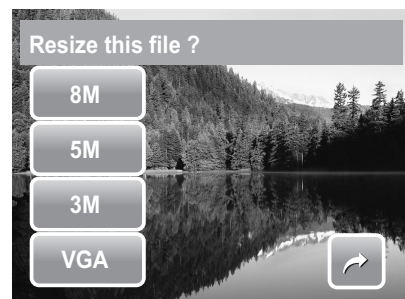
Indicates current page no. / total no. of menu page.

## Resize

The Resize function allows you to change the image resolution of large images to smaller ones. This function is only available for still images.

To resize an image:

1. View image to resize on the LCD screen.
2. From the Playback menu, tap **Resize**.
3. Tap desired size. Select size among: 8M, 5M, 3M, and VGA. Available size settings may vary depending on the original image size. Unavailable settings appear as gray icons.
4. After selecting size, tap to confirm whether to:
  - **Yes.** Save the new file as a new one.
  - **No.** Discard resize.
  - **Overwrite.** Apply and save changes to the current file.



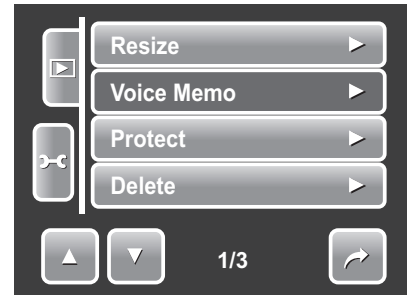
Resize function is not available for photos with image size set to VGA.

## Voice Memo

The Voice Memo function allows you to record and attach a voice memo to a saved image. You can record a maximum of 20 seconds of Voice memo per image. This function is only available for still images.

To record voice memo:


1. View image to attach voice memo on the LCD screen.
2. From the Playback menu, tap **Voice Memo**. The voice recording interface is displayed on the LCD screen.



3. Tap  to start recording.



Time left for recording.

4. Tap  to stop recording. The voice memo is automatically saved and attached to the image.

To attach voice memo to an image with existing voice memo:

1. View the image with an attached voice memo on the LCD screen.
2. From the Playback menu, tap **Voice Memo**.
3. The Overwrite confirmation message appears. Tap whether to:
  - **Yes**. Record another voice memo to replace the existing one.
  - **No**. Retain existing voice memo and exit the function.
4. When you select **Yes**, the Recording memo interface is displayed on the LCD screen. Follow the procedure in recording a voice memo mentioned above.



## Red-Eye Correction

The Red-Eye Correction function is used to reduce red-eye in captured images. This function is only available for still images. Red-eye correction can be applied to an image several times, but the quality may gradually deteriorate.

To activate Red-Eye Correction:

1. View the image on the LCD screen.
2. From the Playback menu, tap **Red-eye Correction**.
3. The image is displayed on the LCD screen with corrected red-eye.
4. Tap **SET** to apply red-eye correction.
5. Tap whether to:
  - **Yes**. Save the image to a new file.
  - **No**. Disregard red-eye correction.
  - **Overwrite**. Apply and save changes to the existing file.

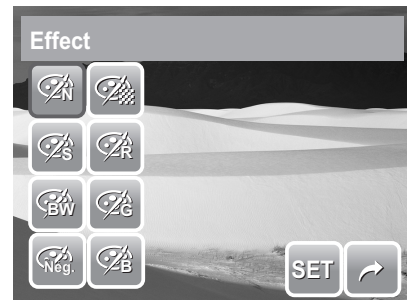


## Effect

The Effect function lets you edit still images to apply different colors or tones for a more artistic effect.





To add Effect:

1. View the image on the LCD screen.
2. From the Playback menu, tap **Effect**. The Effect icons appear.
3. Tap desired settings to preview effect on the LCD screen. See table for more information.
4. Tap **SET** to continue.
5. Tap whether to:
  - **Yes**. Save the image to a new file.
  - **No**. Disregard changes.
  - **Overwrite**. Apply and save changes to the existing file.



The succeeding table shows the available settings.







Icon	Item	Description
	Normal	No effect is added to the image.
	Sepia	Image is saved with a sepia tone.
	B&W	Image is saved in black and white.
	Negative	Image appears to be the opposite of the original image.

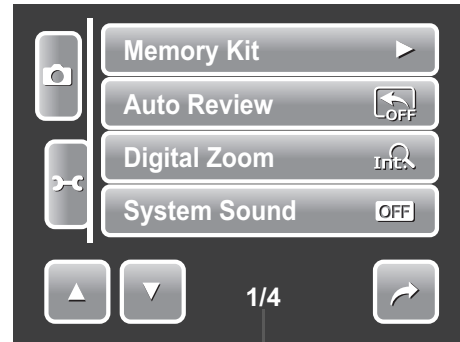
Icon	Item	Description
	Mosaic	Image is saved with mosaic tiles.
	Vivid Red	Image is saved with reddish tint.
	Vivid Green	Image is saved with greenish tint.
	Vivid Blue	Image is saved with bluish tint.

# Using the Setting Menu

You can access the Setting menu whether you are in Record or Playback mode. The Setting menu allows you to configure general camera settings. Submenu options may vary depending on the current mode. Unavailable options are disabled.

To go to Setting Menu:

1. Tap  >  > .
2. Tap  or  to move to the next/previous page of menu selection.
3. Tap a submenu option to change submenu settings.
4. Tap  to exit submenu.



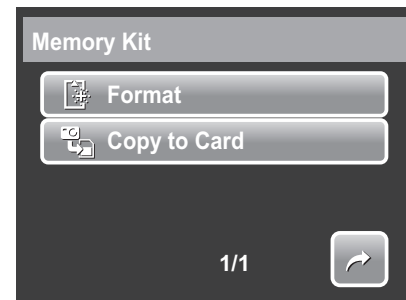
Indicates current page no. / total no. of menu page.

## Setting Memory Kit

Use this function to manage contents of the internal memory or memory card.

Available settings are:

- **Format.** Select to format currently used memory.
- **Copy to Card.** Select to copy all files stored in the internal memory to the memory card.



**Note** If there is no memory card inserted, the **Copy to Card** function is not available.

## Setting Auto Review

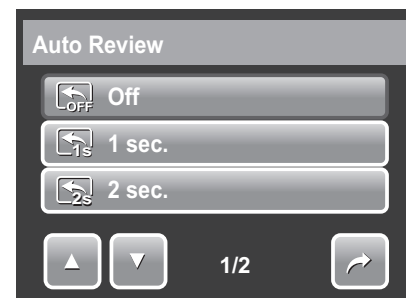
The Auto Review function lets you view the captured image right after shooting it.

Available settings are: Off, 1 sec., 2 sec., 3 sec., and 5 sec.

To set Auto Review

1. From the Setting menu, tap **Auto Review**.
2. Tap to apply desired settings.

This function is not available in camcorder mode.





## Setting Digital Zoom




This feature controls the digital zoom mode of your camera.

Your camera enlarges an image using the optical zoom first. When the zoom scale exceeds 3x, the camera uses digital zoom.

To set Digital Zoom

1. From the Setting menu, tap **Digital Zoom**.
2. Tap to apply desired settings.

The table below shows the available Digital Zoom settings.

Icon	Item	Description
	Intelligent Zoom	Enlarges the image digitally with almost no distortion.
	Standard Zoom	Enlarges all image sizes up to a maximum of 12x, but the image quality deteriorates.
	Off	Uses the optical zoom only.

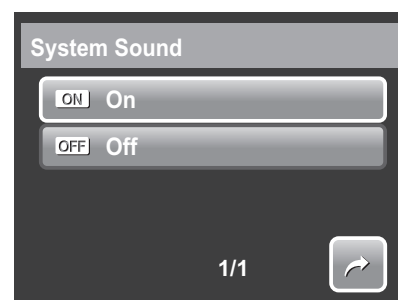


The maximum Intellect zoom scale varies depending on the image type and resolution.

## Setting System Sound

Use the Sound menu function to enable/disable sound when a button is pressed or tapped. Available settings are: On, Off.

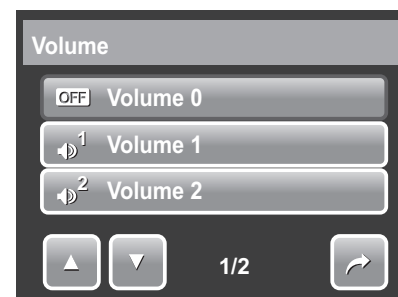
1. From the Setting menu, select **System Sound**.
2. Tap to apply desired settings.



## Setting Volume



Use the Volume function to control the volume for video and audio playback. Available settings are: Volume 0(Off), Volume 1, Volume 2, Volume 3, Volume 4, Volume 5.

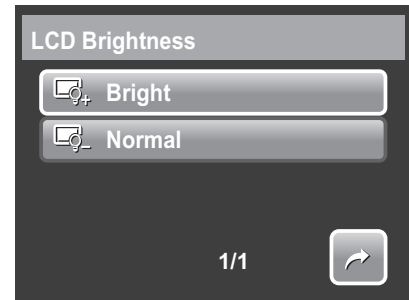
1. From the Setting menu, select **Volume**.
2. Tap to apply desired settings.



## Setting LCD Brightness

Use the LCD Brightness function to control the LCD brightness. Available settings are:

-  **Bright.** Enhances LCD brightness.
-  **Normal.** Normal LCD brightness.



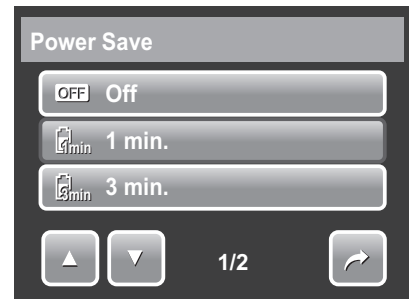
## Setting Power Save

The Power Save function allows you to set an idle time after which the camera automatically sets to sleep mode to save power. After a minute of being in sleep mode, the camera eventually turns off power.

Available settings are: Off, 1 min., 3 min., and 5 min.



This function is not available in the following instances:

- Recording a movie or audio file
- Playing a slideshow/movie/audio file
- Using the USB connector.



## Setting Date & Time

Use the Date & Time function to set the date and time of your camera. This function is useful in attaching date stamps on captured images. Your camera uses a 24-hour time format.



1. Tap  or  to adjust date and time value.
2. Tap **SET** to apply changes.

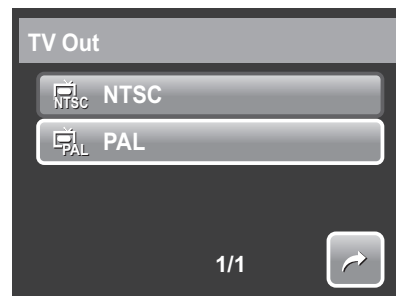


## Setting TV Out

Use the TV Out function to adjust video output signal to accommodate different regional settings. If TV out is not set correctly, the image may not display properly on TV.

Available settings are:

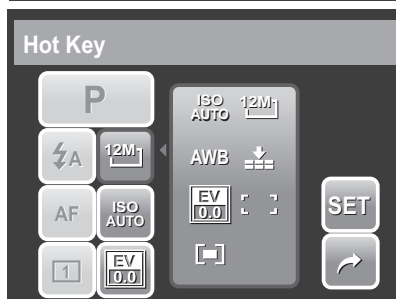
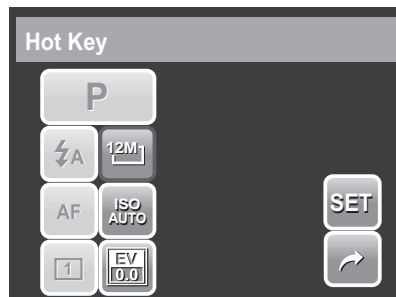
-  **NTSC**. Applicable in Japan, USA, Canada, Taiwan and others.
-  **PAL**. Applicable in Europe, Asia (excluding Taiwan), Oceania and others.



## Setting Hot Key

The Hot Key function is available only in snapshot mode. This function allows you to define the three shortcut icons on the Snapshot Mode Quick-Set Bar.

1. From the Settings menu, tap **Hot Key**. The Hot key interface appears.
2. Tap an icon on the Quick-Set Bar to replace. A pop up selection appears.
3. Tap desired submenu.
4. To replace other icons, repeat steps 2-3.
5. Tap **SET** to save and apply changes.



## Setting Startup Image

The Startup Image function allows you to setup a startup image when you turn on your camera.

1. From the Setting menu, tap **Startup Image**. The menu selection appears.
2. Tap to select option:
  - **Off**. Disable the startup image.
  - **System**. Use camera default image.



- **My Photo.** Select image from captured images in memory card. Tap this option to display thumbnails and select image.
3. Tap **SET** to apply changes.

Tap the thumbnail, then tap **SET** to select image and close selection.

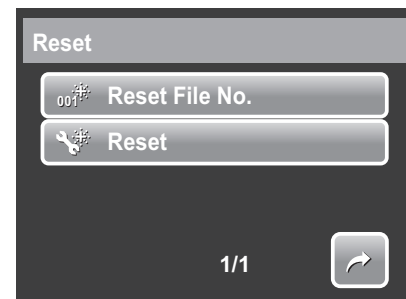


## Resetting

The Reset function is used to reset the camera to its initial default settings and to reset file numbering when saving images/videos/voice recordings.

### To Reset

1. From the Setting menu, select **Reset**.
2. Tap option:
  - **Reset File No.** Tap to reset file numbering. To understand folder and file structure of your camera, see ["About Folder and File Names" on page 65](#).
  - **Reset.** Tap to reset camera to initial default settings.
3. A confirmation message appears. Tap **Yes** to reset. Tap **No** to exit submenu.



## Setting Language

The Language function allows you to choose the language of the on screen display (OSD) menu.

1. From the Setting menu, tap **Language**.
2. Tap to apply desired language.



# Making Connections

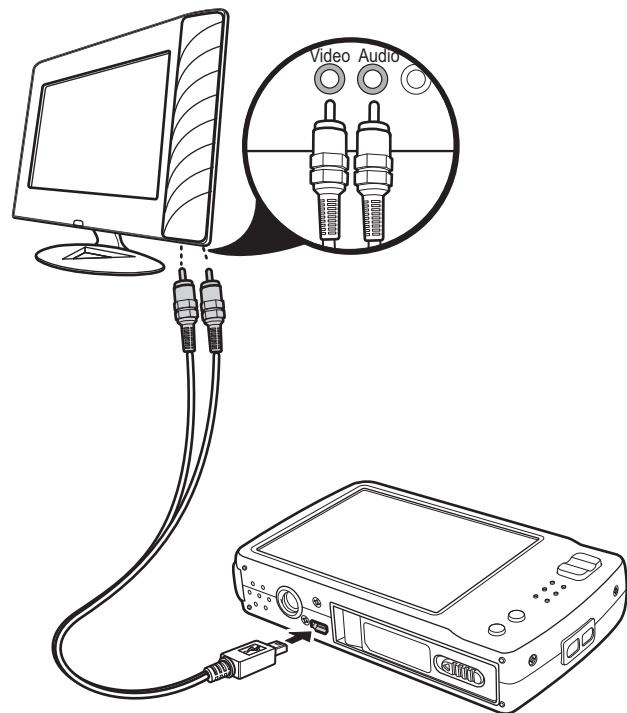
You can connect your camera to:

- TV
- Computer
- Printer

## Connecting the Camera to a TV

To connect your camera to a TV

1. Turn on the camera.
2. Set the TV out to match TV's video out format. See "**Setting TV Out**" on page 60.
3. Connect the USB/AV 3-in-1 cable to the USB port on the bottom of your camera.
4. Connect the other end of the cable to the TV's AV input port.
5. The LCD screen turns black and all images and video clips are displayed on the TV.



To view photos

- To navigate photos, use .

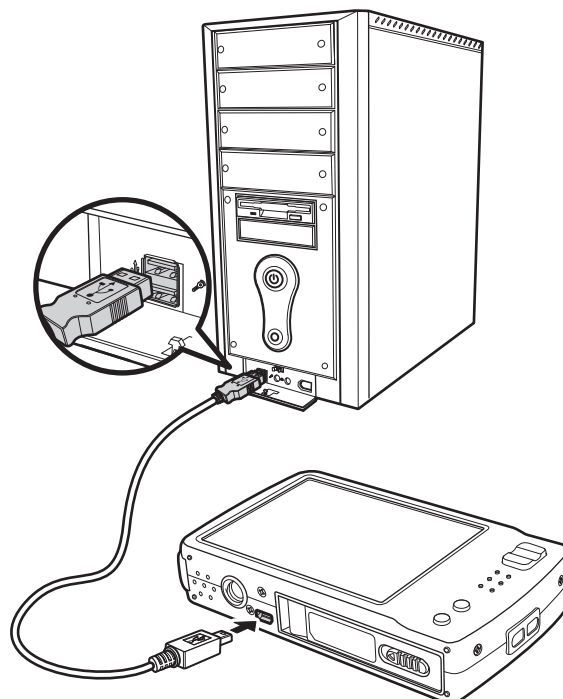
Press **T** button to go to previous photo and **W** button to go to next photo.

- For slideshow, press **Playback** button to start/stop slideshow.
- To display/hide function keys on the TV screen, press **Display** button.

## Connecting the Camera a PC

You can transfer photos, videos and audio files to your PC.

1. Connect the camera to a PC using the USB cable.
2. Turn on the camera.
3. The PC detects the connection. The camera's internal memory and memory card display as removable drives in the file manager. No image is displayed on the LCD screen.

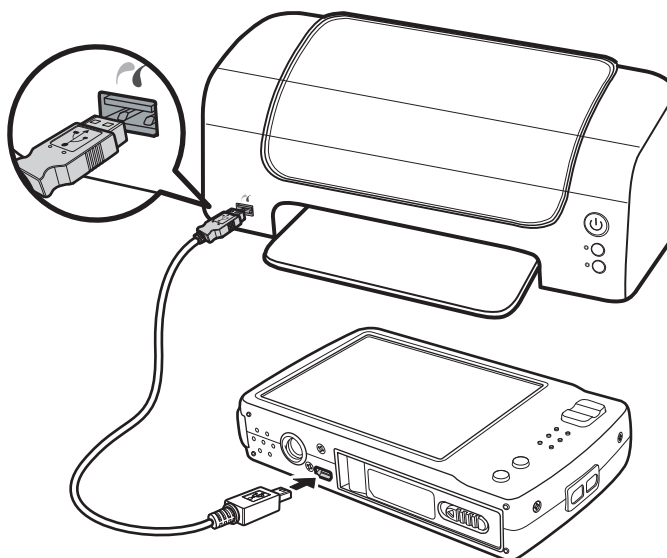


You can also use a card reader to access the memory card contents of your camera

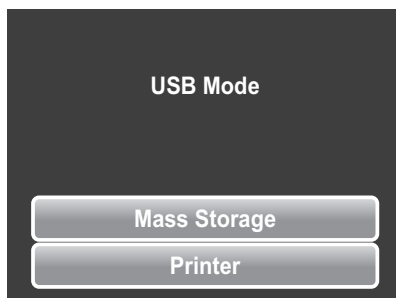
## Connecting the Camera to a Printer

You can print your photos directly using a PictBridge compatible printer. PictBridge allows you to print images captured by your camera without connecting the camera to a PC. Print images with a PictBridge compatible printer directly.

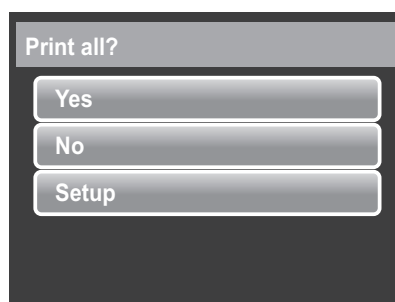
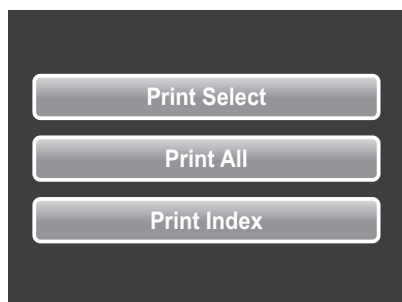
1. Turn on your camera.
2. Connect the camera to the printer using the USB cable.



3. The camera detects the connection and turns to USB mode. Tap **Printer**.



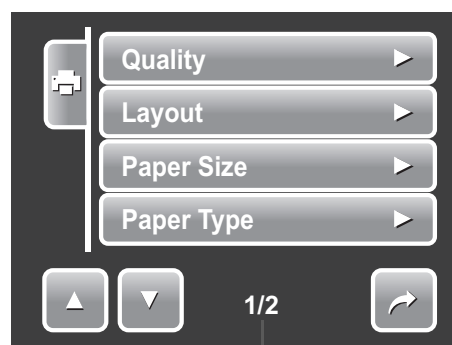
4. Select print settings then confirm to print photos.



## Setting PictBridge Menu

To ensure quality of printed photos, activate the PictBridge menu to setup print settings.

To access PictBridge menu, tap **Setup** in the confirmation selection before printing photos.



Indicates current page no. / total no. of menu page.

The table below shows the PictBridge submenu options and their available settings.

Submenu	Available Settings
Quality	Default, Fine, Normal, Draft
Layout	Default, 2, 4, 6, 12, Full
Paper Size	Default, Postcard, Letter, A4, 4"x 6"
Paper Type	Default, Plain, Photo, Fast Photo
Date Stamp	Default, On, Off
Filename	Default, On, Off

# Appendix

## About Folder and File Names

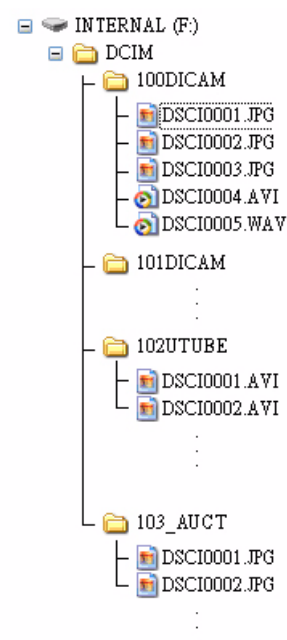
Your camera automatically creates specific directory of folders in the internal memory or memory cards to organize captured images, videos and audio files.

### Folder Structure

Your camera creates three directory names:

- **DICAM.** All captured images, videos and audio files are stored in this folder except for files recorded using the Auction or YouTube(R) mode.
- **\_AUCT.** Captured images using the Auction mode are saved in this folder.
- **UTUBE.** Captured videos using the YouTube(R) mode are saved in this folder.

Folder names begin with a 3-digit number from 100 to 999 and followed by "DICAM" or "\_AUCT" or "UTUBE". Each folder holds up to 9999 files. If new files are saved, a new folder named in sequence will be automatically created.



### File Naming

File names begin with "DSCI" and followed by a 4-digit number that increases in sequence. File numbering starts from 0001 when a new folder is created.

If the highest folder number is 999 and the highest file number exceeds 9999, the camera will display the warning message "Folder cannot be created." When this happens, try one of the following ways:

- Reset the file number. See ["Resetting" on page 61](#)
- Plug in a new memory card.



Do not change the folder and file names in the memory card using your PC. It may be unable to playback the data using the camera.



# Troubleshooting

Problem	Cause and/or Action
Camera does not turn on.	The batteries may be exhausted. Charge or replace the batteries.
Camera turns off automatically.	Press any button except the Power button to turn on the camera.
LCD turns blank.	Press any button except the Power button to turn on the LCD.
Empty battery icon is displayed on the LCD, then the camera turns off.	Batteries are exhausted, please replace or recharge.
LCD screen displays 'No image'.	The image file on the memory card. Image file format may not be supported.
LCD screen displays 'Not available for this file'.	Function is only available for specific file types. File format is not supported.
LCD screen displays 'Memory full'.	Memory card is full. Replace the memory card with a new one or delete unnecessary images.
LCD screen displays 'File locked'	This file is locked. Unlock the file. See "Protecting/Unprotecting Files" on page 51.
LCD screen displays 'Card locked'.	The memory card is protected. Remove the card and slide the write-protect switch to its unlock position.
LCD screen displays 'Format error'.	The memory card is protected. Remove the card and slide the write-protect switch to its unlock position.
LCD screen displays 'Copy error'.	The memory card is protected. Remove the card and slide the write-protect switch to its unlock position. The memory card is full. Replace card or delete unnecessary files.
No image displays on the TV screen	Incorrect TV-out type was selected. Set the correct TV-out type to match your TV system.
The lens got stuck up.	Do not force the lens to go back. The type of the battery used may be incorrect or the battery power level is too low. Change the battery or charge the battery before using the camera.

# Specifications

Sensor	12 Mega Pixels CCD, Size: 1/2.3
Lens	Focal Length: f = 6.3 - 18.9 mm, 3X optical zoom, 5x digital zoom
LCD Monitor	Display: 3.0" color LCD
Focus Range	0.4m - Infinity (All zoom step) 0.1m - Infinity (At wide only)
Aperture	F = 3.1 - 5.6
Shutter	Auto: 1 - 1/2,000 sec. Manual mode: 15 - 1/2,000 sec. Night: 15 - 1/2000 sec. Fireworks: 8 sec.
File Format	Still Image: EXIF 2.2 compatible format (JPEG compression) Video: AVI (MJPEG) Audio: WAV
ISO	Auto, 80, 100, 200, 400, 800, 1600, 3200
Exposure Compensation	-2EV to + 2EV (1/3EV steps)
Metering	Multi, Spot, Center-weighted, Face Recognition AE & AF
Flash mode	Auto, Forced Off, Forced On, Auto Red-eye Reduction, Forced Red-eye Reduction, Slow Sync
Surround mode	continuous, taking 3 pictures (OEV, -0.3EV, +0.3EV)
Self-timer	10 sec., 2 sec.
Scene Mode	Auto, Program, Intelligent Scene, Portrait, Landscape, Sunset, Backlight, Kids, Night Scene, Fireworks, Snow, Sports, Party, Candlelight, Night Portrait, Soft Skin, Soft Flowing Water, Food, Building, Text, Auction, Smile Capture, Blink Detection, Movie, Voice Recording
Resolution	Still Image: 12M (4000 X 3000), 3:2 (4000 X 2672), 8M (3264 X 2448), 5M (2592 X 1944), 3M (2048 X 1536), HD (1920 x 1080), VGA (640 X 480)
Movie Clip	Size: 16:9, 640 X 480, 320 X 240, YouTube(R)
White Balance	Manual (5 modes in manual selection: Daylight, Cloudy, Tungsten, Fluorescent, Custom)

## Specifications

Effect	Preview: Normal, Vivid, Sepia, Black & White, Red, Green, Blue Playback: Normal, Sepia, Black & White, Negative Art, Mosaic, Red, Green, Blue
Storage	32MB flash memory, 10MB real size for mass storage SD (max. size 4GB), SDHC card (up to 16GB)
TV system	NTSC, PAL
Interface	USB / AV OUT
Battery	Li-ion battery
Operating Temperature	0° C - 40° C
Operating Humidity	0% - 90%
Microphone	Built-in
Speaker	Built-in
Dimensions	Max. 97.5 X 56.7 X 17.6 mm Normal: 95.5 X 56.7 X 17.6 mm
Weight	130g (without battery and SD card)

### Customer care

More information on the complete AgfaPhoto digital camera product range can be found under [www.plawa.com](http://www.plawa.com) / [www.plawausa.com](http://www.plawausa.com)

**Service & Repair (USA/ Canada):**

+1-866 475 2605

[www.plawausa.com](http://www.plawausa.com)

**Support Service (USA/ Canada)**

[support-apdc@plawausa.com](mailto:support-apdc@plawausa.com)

**Service & Repair Hotline (EU):**

00800 752 921 00 (from a landline only)

**Service & Support Hotline (Germany):**

0900 1000 042 (1.49 Euro/ min. from a German landline only)

**Online Service / International contact (Not for USA/ Canada):**

[support-apdc@plawa.com](mailto:support-apdc@plawa.com)

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plawa-feinwerktechnik GmbH & Co. KG  
Bleichereistraße 18  
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