



HP SB360

**Digital Camera**

User Manual

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# Preface

## 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.

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 must accept any interference received, including interference that may cause undesired operation.

## Trademark Recognition

Windows 2000/XP/Vista/Windows 7 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 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 not extend or retract properly.

## Battery safety notice

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 45°C (113°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a device that can charge the batter pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Dispose of used battery packs promptly as described in the instructions.

Replace the battery with the specified type only. Otherwise, fire or injury may result. Do not expose the batteries to excessive heat such as sunshine, fire or the like.

## **Lithium-ion Battery Warning**

**Caution:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

## Camera & battery recycle notice



In the European Union, do not discard this product and battery as unsorted municipal waste. Contact local authorities for recycling program information.

## Camera on operating notice

### **On operating temperatures**

Your camera is designed for use under the temperatures between 0°C and 40°C (32°F and 104°F). Shooting in extremely cold or hot places that exceed this range is not recommended.

### **Do not use/ store the camera in the following places**

- In an extremely hot, cold or humid place. In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater. The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places. Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

# Using this Menu

Symbols used in this manual are explained below:

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

## Photography Terms and Definitions

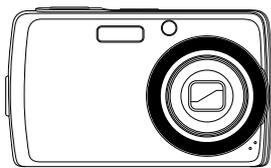
Terms	Definitions
<b>auto exposure bracketing (AEB)</b>	A simple technique professional photographers use to ensure they properly expose their pictures, especially in challenging lighting situations. When AEB is selected, the camera automatically takes three or more shots with a different exposure for each frame.
<b>autofocus (AF)</b>	Autofocus refers to a camera lens' ability to adjust its configuration in order to focus properly on a subject regardless of whether it is near or far from the camera. Autofocus lenses generally provide vastly superior image quality than do their fixed focus cousins since they do not have to rely on their depth of field. Also known as: "AF", "auto-focus"
<b>album</b>	An end-user created object that is used to logically group data objects according to some user-defined criteria. An album may or may not be a physical folder in a filesystem.
<b>Analog to Digital Converter (A/D or ADC)</b>	A circuit that converts an analog signal, having a continuously varying amplitude, to a digitally quantized representation using binary output signals.
<b>aspect ratio</b>	cf. image aspect ratio, pixel aspect ratio.
<b>auto white balance (AWB)</b>	With auto white balance, the camera attempts to determine the color temperature of the light and automatically adjust for that color temperature. Many people just leave the camera set to auto white balance all the time.
<b>Charge Coupled Device (CCD)</b>	A type of silicon integrated circuit used to convert light into an electronic signal.
<b>compression</b>	cf. image compression, sound file compression
<b>connection</b>	A transport-provided logical or physical persistent mechanism for transferring data between devices.
<b>Digital Print Order Format (DPOF)</b>	A standardized ASCII file created in a digital camera and stored on removable media along with the image files that indicate how many copies of which images should be printed. It also allows index prints, cropping, and text overlays to be specified.

Terms	Definitions
<b>digital still camera (DSC)</b>	A camera incorporating an image sensor which outputs a digital signal representing a still picture, or records a digital signal representing a still picture on a removable medium, such as a memory card or magnetic disk.
<b>dynamic range</b>	cf. ISO DSC dynamic range, colour gamut, luminance ratio
<b>Exif/JPEG</b>	A compressed file format for digital cameras in which the images are compressed using the baseline JPEG standard, described in ISO 12234-2, and metadata and thumbnail images are stored using TIFF tags within an application segment at the beginning of the JPEG file.
<b>exposure index</b>	A numerical value that is inversely proportional to the exposure provided to an image sensor to obtain an image. Images obtained from a camera using a range of exposure index values will normally provide a range of image quality levels.
<b>file system</b>	The software structure which specifies how the data are logically organized on a given storage medium.
<b>folder</b>	An optional sub-structure in a hierarchical storage area that can contain data objects.
<b>ISO speed</b>	A numerical value calculated from the exposure provided at the focal plane of an electronic camera to produce specified camera output signal characteristics using the methods described in the referenced standard. The ISO speed should correlate with the highest exposure index value that provides peak image quality for normal scenes.
<b>JPEG</b>	Joint Photographic Experts Group. An image compression method defined in ISO/IEC 10918-1.
<b>memory card</b>	A specific type of memory module with a physical form factor approximating that of a credit card in outline; approx. 85 mm x 55 mm.
<b>PC</b>	Personal Computer. Any personal computing device, which may employ various hardware architectures and operating systems.
<b>protocol</b>	Defined mechanisms for exchanging data between devices.
<b>StorageID</b>	A device-specific four byte unsigned integer (UINT32) that represents a unique storage area that may contain data objects. The most significant sixteen bits of a StorageID represents the PhysicalStorageID, while the least significant sixteen bits of a StorageID represents the LogicalStorageID.
<b>USB</b>	Universal serial bus, a digital interface for connecting up to 64 devices in a tiered-star topology. See <a href="http://www.usb.org">http://www.usb.org</a> .
<b>white balance</b>	The adjustment of electronic still picture color channel gains or image processing so that radiation with relative spectral power distribution equal to that of the scene illumination source is rendered as a visual neutral.

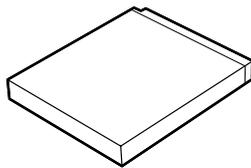
**Source: ISO/WE 12231 Photography-- Electronic still-picture cameras -- Terminology**

# Package Contents

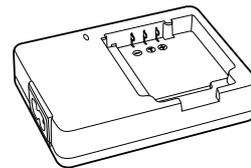
Please check the contents of your camera package. It should contain:



Digital camera



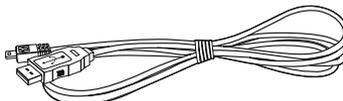
Li-ion battery



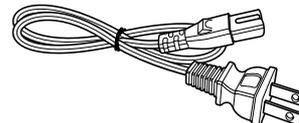
Battery charger



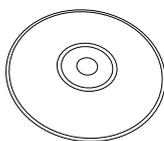
Wrist strap



USB cable



Power cord



CD-ROM



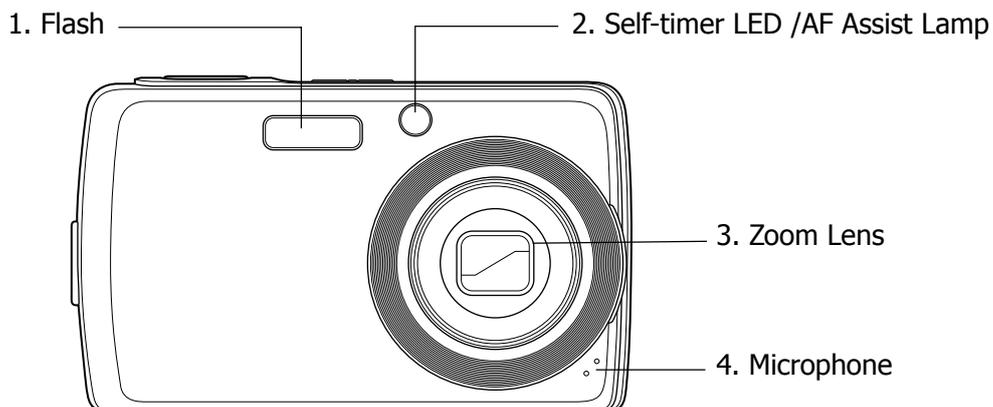
Quick Start guide



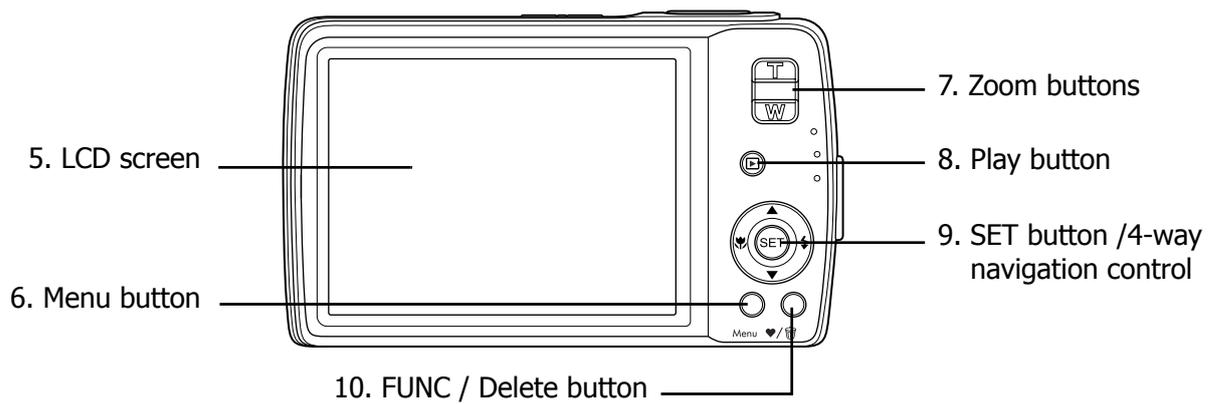
Warranty card

## Camera Views

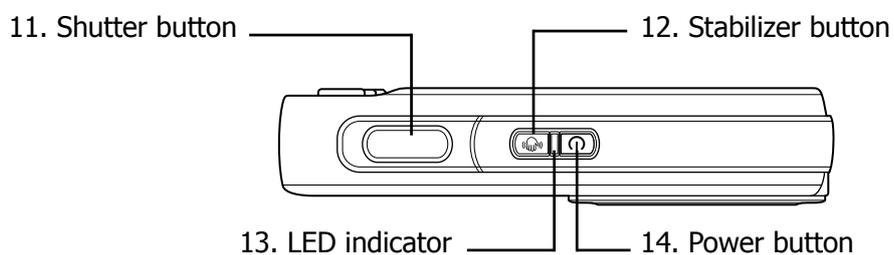
### Front View



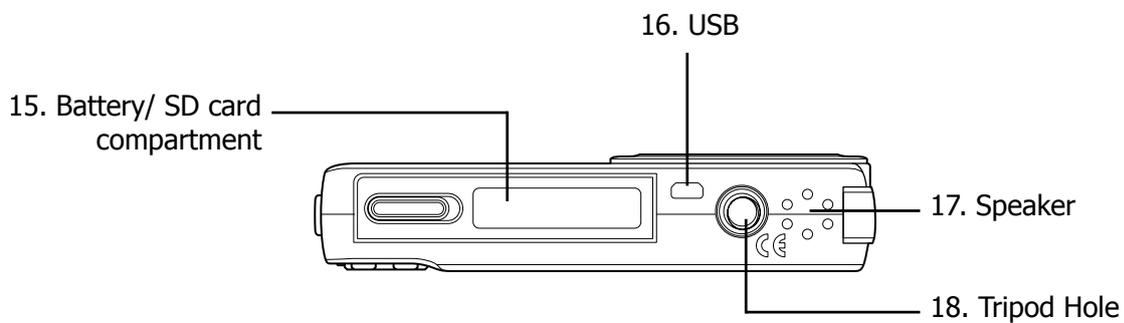
## Back View



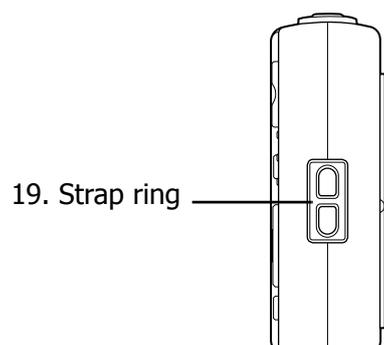
## Top View



## Bottom View



## Left View



# Navigation Control

You can choose camera settings by pressing the 4-way control or the  button.

## 1. Left/Macro:

- Scrolls left in menus.
- Activates Macro mode or Auto Focus mode.

## 2. Up:

- Scrolls up in menus.

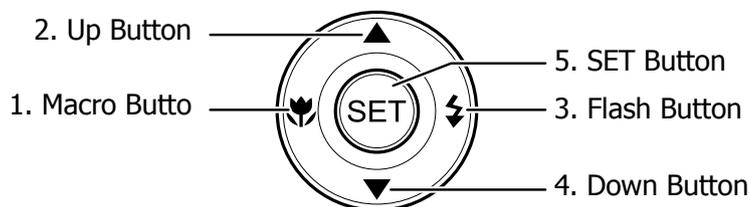
## 3. Right/Flash:

- Scrolls right in menus.
- Selects a flash mode.

## 4. Down:

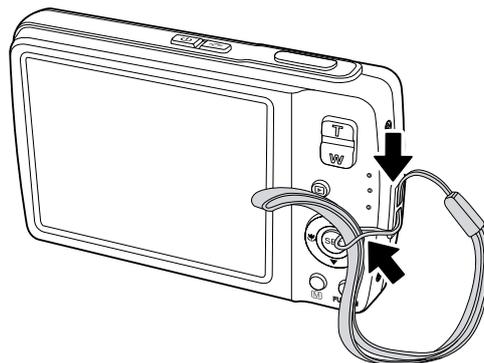
- Scrolls down in menus.

## 5. : Confirms a chosen setting.



# Attaching the Wrist Strap

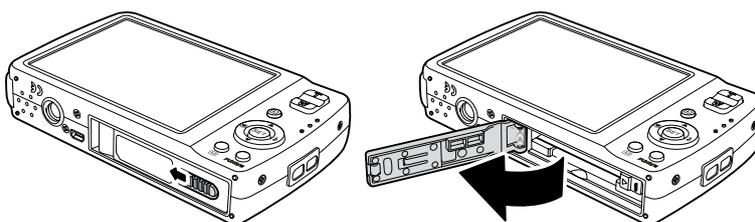
1. Insert the short loop of the strap in the strap eyelet.
2. Thread the larger loop of the strap through the short loop and pull tight to attach the strap to the camera.



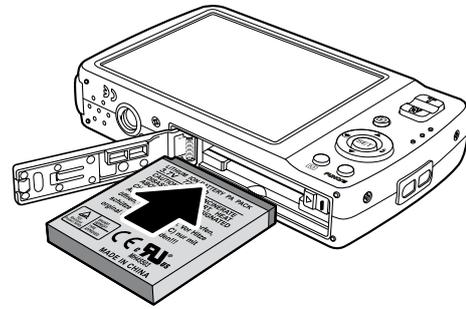
# Inserting the Battery

Please read "[Battery Information](#)" on [page v](#) before inserting/removing batteries.

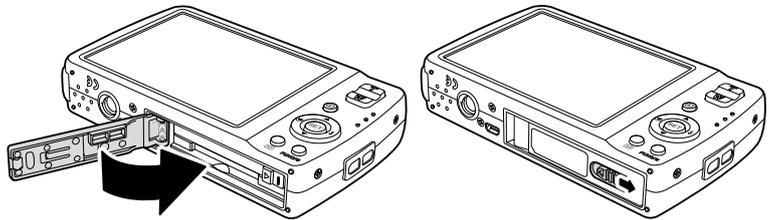
1. Make sure the power is off before inserting the batteries.
2. Open the battery compartment at the bottom of the camera.



3. Insert the battery into the compartment with the terminal facing inside the camera and the battery indent next to the compartment door.

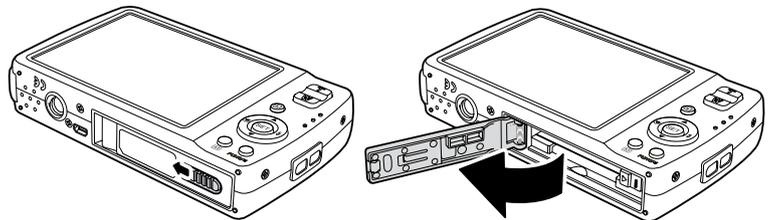


4. Close the battery compartment.

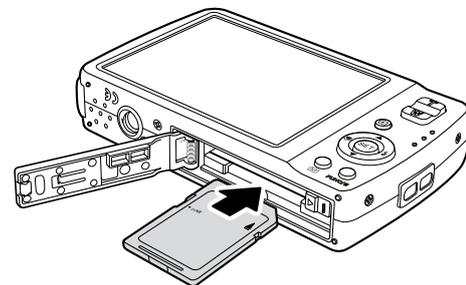


## Inserting an SD/SDHC Memory Card

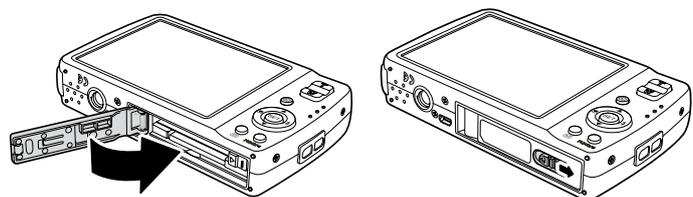
1. Open the battery compartment at the bottom of the camera.



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/SDHC card

1. Open the battery compartment.
2. Gently push the card until it pops out.
3. Pull out the card carefully.

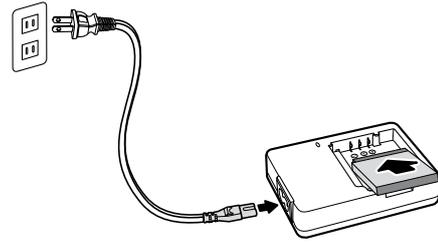
# Charging the Battery

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 monitor indicates the battery level.



# Initial Settings

You will be prompted to set up the language and the date and time when the camera is turned on for the first time.

## Setting the Language

1. Press ▲, ▼, ⌂ or ⚡ to move through the selection.
2. Select a language, then press SET to apply.

## Setting the Date & Time

1. Press  or  to move through the selection.
2. Press  or  keys to change the value for the date and time.
3. Press SET to apply.
4. If necessary, press  to close the menu.



- Holding down the  or  changes the values continuously.
- 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:

### Shooting mode

- Set to Shooting mode to capture images and record videos and audio clips.
- Shooting mode can be further set to mode options like auto, movie and scene selection modes. See “[Selecting the Shooting 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 to Shooting mode.

## Switching between Shooting mode and Playback Mode

In Shooting mode, press the **Play** button to switch to Playback mode.

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

## Selecting the Shooting mode options

The mode options allow you to capture images with preset settings according to scene conditions.

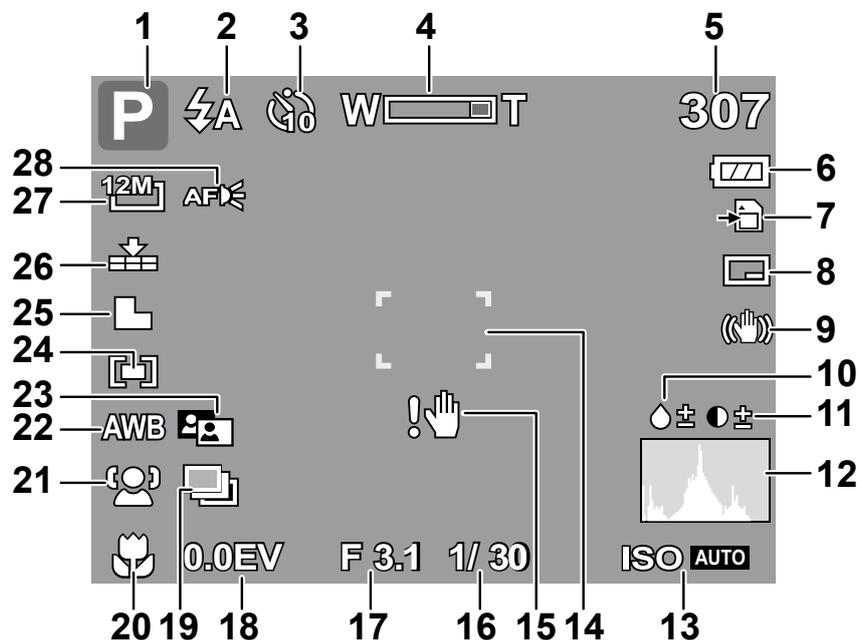
1. Set the camera to Shooting mode.
2. Press  to launch Shooting mode Menu.
3. Select **Shooting Mode**, then press  to enter submenu.
4. Select a mode.
5. Press the **SET** button to apply selected mode.



Use the 4-way navigation control to move through the menu selections.

# LCD Monitor Layout and Icon Descriptions

## Shooting mode Screen Layout



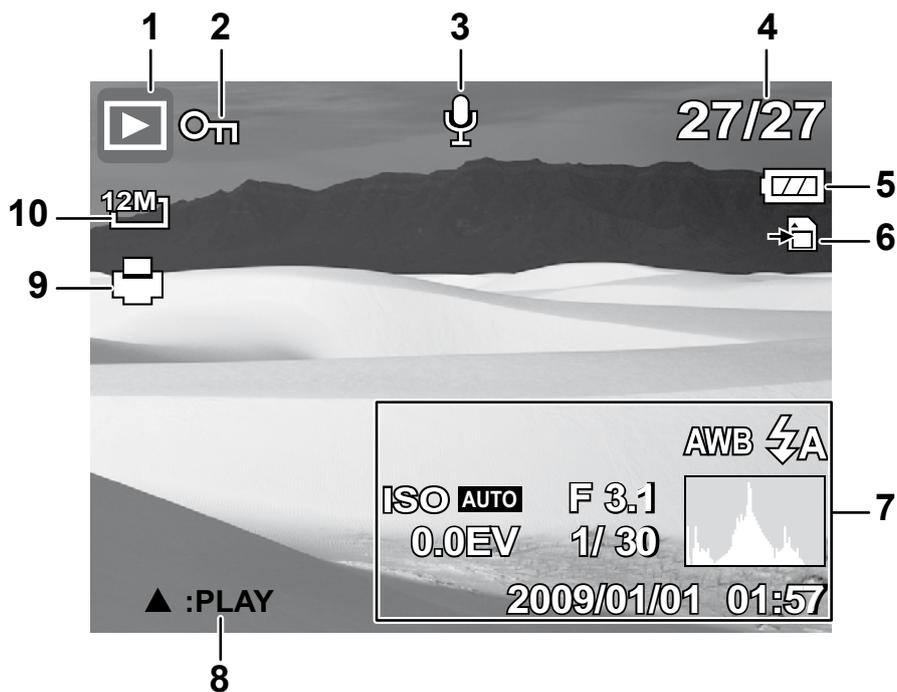
No.	Item	Description
1	Shooting mode	Indicates the current mode.
2	Flash	Indicates flash settings.
3	Self-Timer/Burst	Indicates Self-Timer/Burst settings.
4	Zoom indicator	Displays zoom.
5	Shots remaining	Indicates the remaining shots available.
6	Battery	Indicates battery level.
7	Storage media	Indicates current storage media in use.
8	Date stamp	Indicates date stamp is enabled.
9	Stabilizer	Indicates stabilizer function is enabled.
10	Saturation	Displays saturation settings.
11	Contrast	Displays contrast settings.
12	Histogram	Graphic display of ISO settings.
13	ISO	Displays ISO settings.
14	Focus area	Use to frame subject to capture.

No.	Item	Description
15	Shake warning	Indicates that the camera is shaking.
16	Shutter speed	Displays shutter speed settings.
17	Aperture value	Displays aperture settings.
18	Exposure	Displays exposure settings.
19	AEB	Displays AEB settings.
20	Macro	Indicates macro is enabled.
21	Face tracking	Indicates face tracking is enabled.
22	White balance	Displays white balance settings.
23	Active Z-Lighting	Indicates Z-lighting is enabled.
24	Metering	Displays metering settings.
25	Sharpness	Displays sharpness settings.
26	Quality	Displays quality settings.
27	Resolution	Displays resolution settings.
28	AF lamp	Indicates AF lamp is enabled.

## 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		Playback mode	Indicates playback mode.
2		Protect	Indicates file is protected.
3		Voice memo	Indicates voice memo is attached.
4	27/27	File no. / Total no.	Indicates the file number over the total number of files in the storage card.
5		Battery	Indicates battery level.
6		Storage media	Indicates used storage memory.
7		Recording information	Displays recording information of the file.
8	▲ :PLAY	Button intro	Indicates the button to press on the camera to play a movie or audio file.
9		DPOF	Indicates the file is marked for printing.
10		Resolution	Displays the resolution settings.

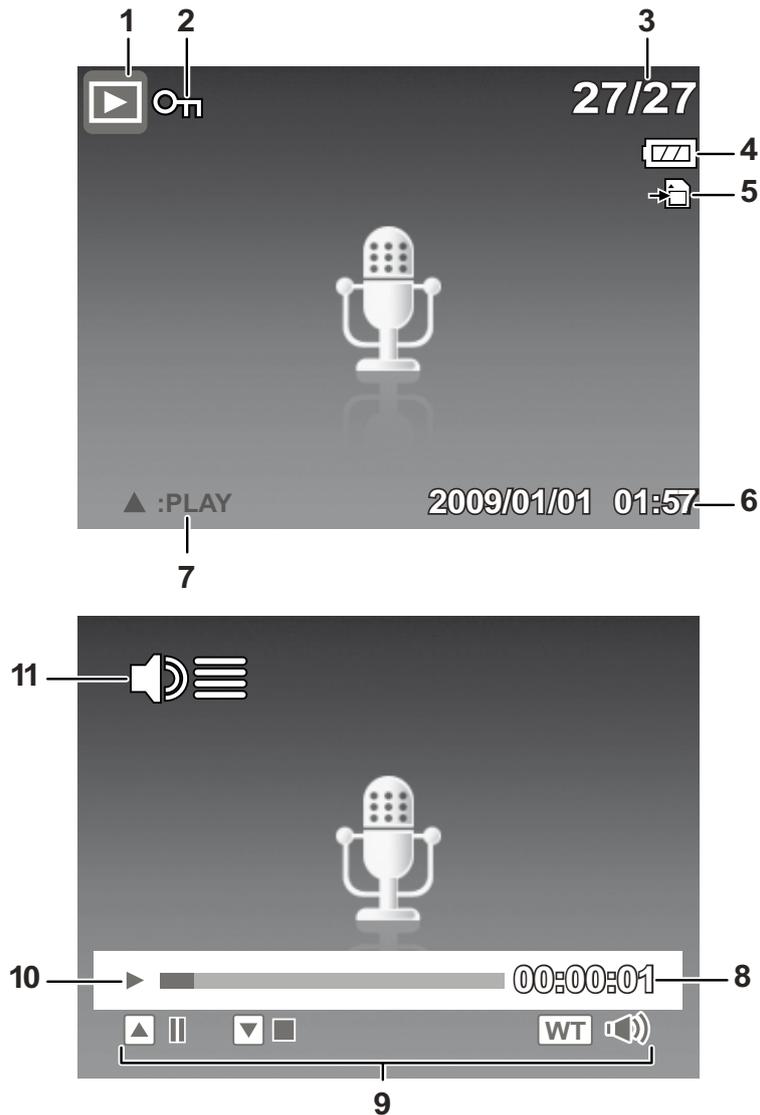
### Playback mode of videos:





No.	Item	Description
1		Playback mode Indicates playback mode.
2		Protect Indicates file is protected.
3		Voice memo Indicates voice memo is attached.
4	<i>27/27</i>	File no. / Total no. Indicates the file number over the total number of files in the storage card.
5		Battery Indicates battery level.
6		Storage media Indicates used storage memory.
7	<i>2009/01/01 01:57</i>	Recording information Displays recording information of the file.
8		Button intro Indicates the button to press on the camera to play a movie or audio file.
9	<i>00:00:01</i>	Played time Indicates played time.
10		Key indicator Indicates the buttons to press on the camera to apply the functions.
11		Playing status Displays playing status.
12		Volume Indicates volume settings.

## Playback mode of audio clips:



No.	Item	Description
1		Playback mode Indicates playback mode.
2		Protect Indicates file is protected.
3	27/27	File no. / Total no. Indicates the file number over the total number of files in the storage card.
4		Battery Indicates battery level.
5		Storage media Indicates used storage memory.
6	2009/01/01 01:57	Recording information Displays recording information of the file.
7	▲ :PLAY	Button intro Indicates the button to press on the camera to play a movie or audio file.
8	00:00:01	Played time Indicates played time.

No.	Item	Description
9		Key indicator
10		Playing status
11		Volume

## Changing the LCD Monitor Display

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

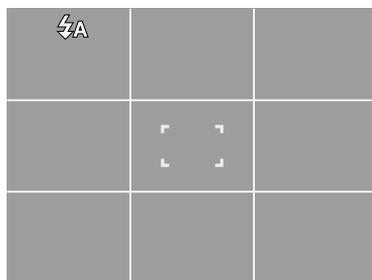
In Shooting mode, the LCD display can be changed into any four of the following:



OSD on



Full OSD on



Guide lines on



OSD off



- The OSD information may vary depending on the Shooting mode type.
- The following icons, if enabled, are still displayed on the LCD even when OSD off or Guide lines on: AEB, Face tracking, AF lamp, Active Z-lighting, Self-Timer/Burst, and Macro.
- Use the "Guide lines" to properly set image for capture.

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



OSD on

Full OSD on

OSD off



Note

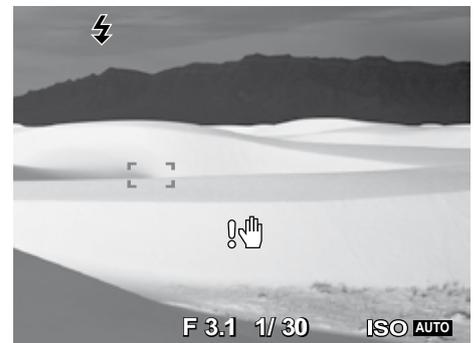
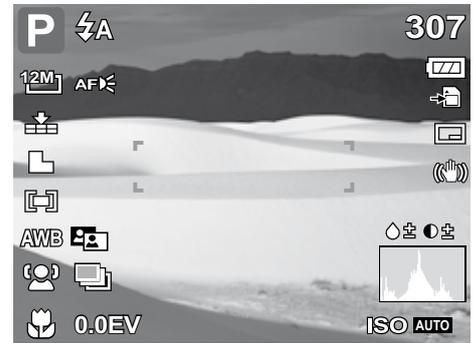
LCD display cannot be changed in the following situations:

- Manual exposure mode
- Recording movie or audio clips
- Playing movie or audio clips
- Playing slide show

# Shooting Image

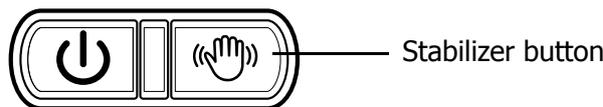
## Taking Photos

1. Turn on the camera by pressing the **Power** button.
2. Frame the shot using the focus bracket on the LCD monitor. 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 shutter speed and aperture value are displayed.
4. Fully press the **Shutter** button to capture image.



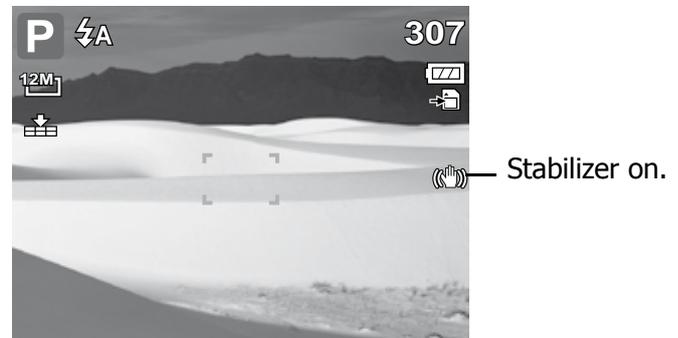
## Using the Stabilizer

The Stabilizer function prevents blurred images caused by shaking.



### To activate Stabilizer

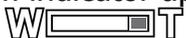
- Press the **Stabilizer** button on top of your camera to enable/disable stabilizer. If Stabilizer is enabled, the stabilizer icon is displayed on the LCD monitor and the ISO setting is automatically set to Auto.

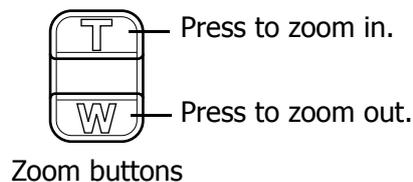


# Setting the Zoom Control

Your camera features up to 3x optical zoom and up to 5x of digital zoom. Please refer to ["Setting the Digital Zoom" on page 31](#) on how to setup digital zoom.

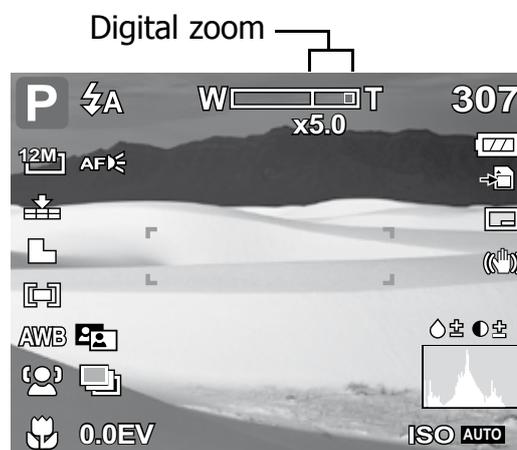
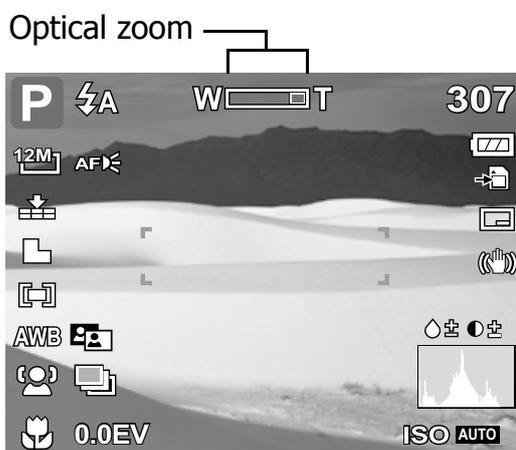
To adjust the optical zoom:

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



To adjust the digital zoom:

1. Activate digital zoom.
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.



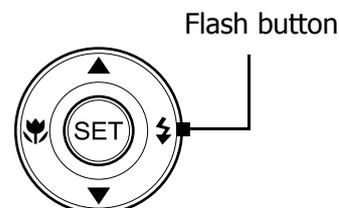
Digital zoom is not activated in recording movies.

## Using Flash

When taking the picture in dim lighting condition, use the Flash to get correct exposure. This function cannot be activated in recording movies or continuous shooting.

To activate Flash:

- Press the **Flash/Right** button on your camera repeatedly until your desired flash mode is displayed on the LCD monitor.



Your camera is equipped with five flash modes:

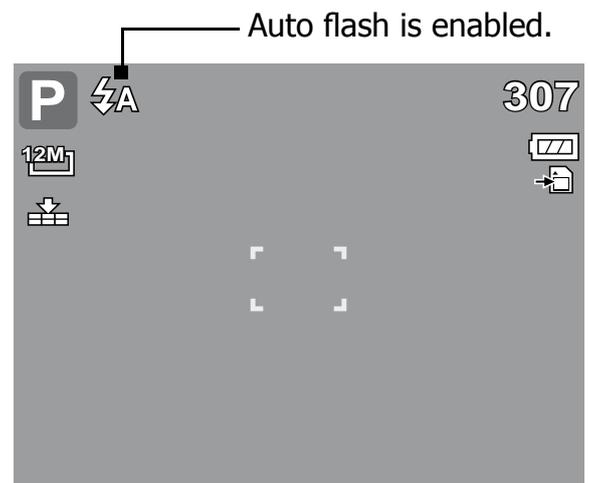
**⚡A Auto flash.** The flash fires automatically whenever extra lighting is needed.

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

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

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

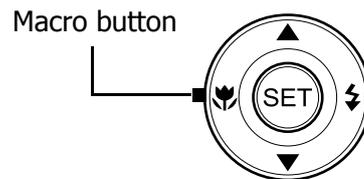
**⚡ Forced off.** The flash is turned off.



## Setting the Focus Mode

To set the Focus mode

- Press the Macro button repeatedly until the desired focus mode icon is displayed on the lower left corner of the LCD monitor.

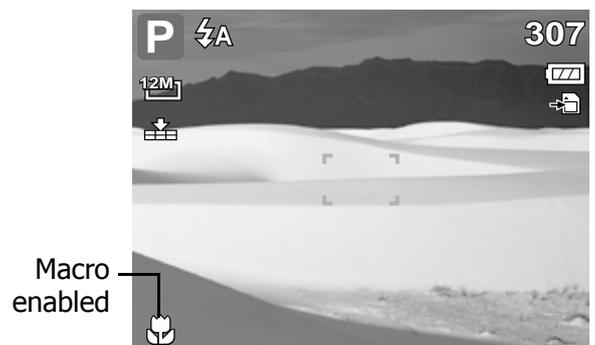


Your camera supports the four focus modes:  
**Normal.** With normal focus, the focus range starts from 0.4m. There is no icon displayed on the screen.

**🌸 Macro.** This mode is designed for close-up photography. If Macro is enabled, you can capture the detail and sharpness of a very close image by fixed focus.

**PF Pan Focus.** The camera focuses on every object.

**INF Infinity.** The camera focuses on distant objects.

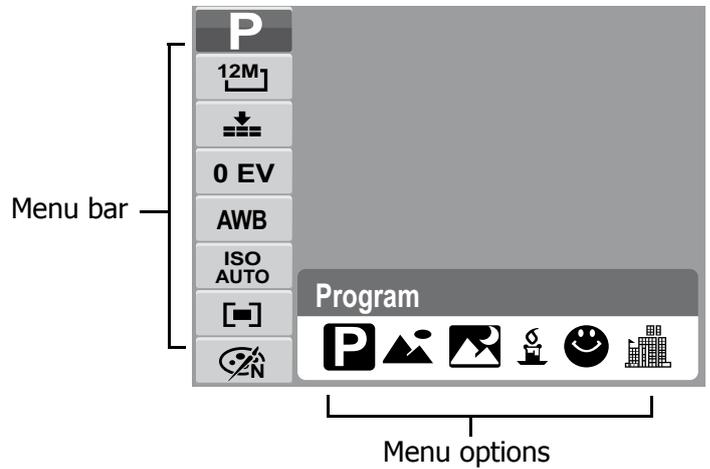


# Using the Shooting Functions

The hot key of “heart” (FUNC button) is used for a quick setup of the latest six shooting modes (My Mode) and to adjust capturing settings in Shooting Mode.

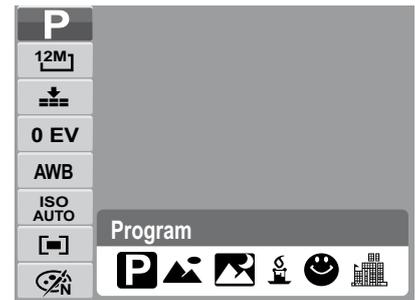
 Press the **FUNC** button of your camera to launch My Mode Menu.  
 Press the **FUNC** button again to close the menu.

- The Menu options bar displays the six latest used shooting modes.
- The available options for each item on the menu bar are shown in the Menu options.
- Use the  or  move through the menu selections then press the SET button to save and apply changes.



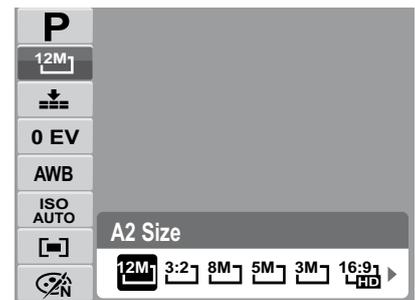
## Shooting Mode

It shows the selected mode from Menu options bar.



## Resolution

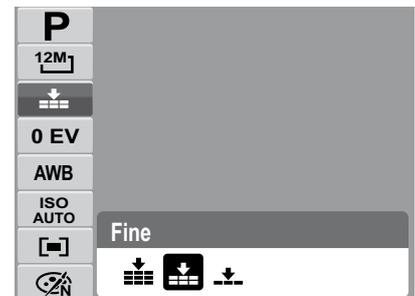
The Resolution setting is used to set the resolution before you capture the image. The higher the resolution, the more memory space is required.



## Quality

The quality setting lets you adjust the quality level of your photos before you capture them. However, the higher the quality, the more memory space is required in your memory card. The available settings for still images are as follows:

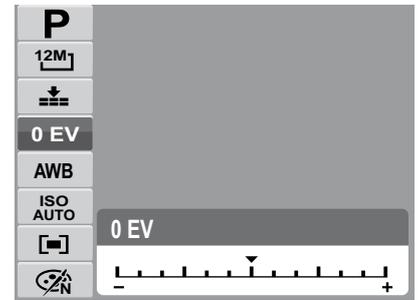
 Super fine,  Fine, and  Normal.



## EV Compensation

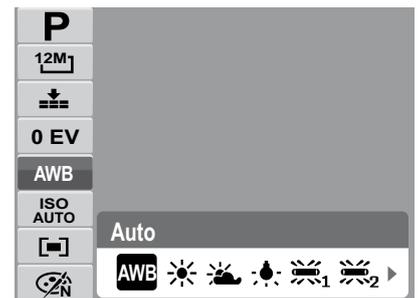
In dim lighting condition, the auto exposure function of your camera may be misled into giving the wrong readings. The EV Compensation function allows you to adjust the exposure value and correctly expose your images. Available for still images only.

- To adjust EV settings, press the  or  keys to increase/decrease the value. Press the SET button to save and apply changes.
- The available settings are: 0EV, +0.3EV, +0.7EV, +1.0EV, +1.3EV, +1.7EV, +2.0EV, -0.3EV, -0.7EV, -1.0EV, -1.3EV, -1.7EV, -2.0EV.



## White Balance

The White Balance setting allows you to adjust the image color temperature according to the ambient light condition when recording the still images and movies.



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 1	Ideally used for indoor photos with near blue fluorescent lighting conditions.
	Fluorescent 2	Ideally used for indoor photos with near red fluorescent lighting conditions.
	Custom	Used when light source cannot be specified. Press the shutter button for the camera to automatically adjust the appropriate white balance setting according to the environment.

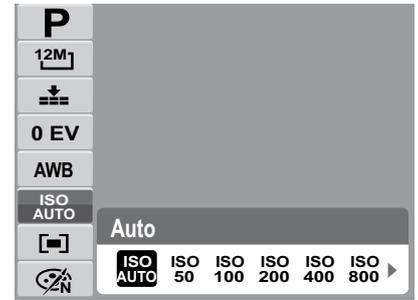
## ISO

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

- Use a higher ISO setting in dim conditions and a lower ISO setting in brighter conditions.
- Available settings are: Auto, 50, 100, 200, 400, 800, 1600, and 3200.



- If the Stabilizer is enabled, ISO is automatically set to Auto and cannot be adjusted. To adjust ISO, disable Stabilizer first.
- ISO 3200 setting is not available when the resolution is set to more than 3M.



## Metering

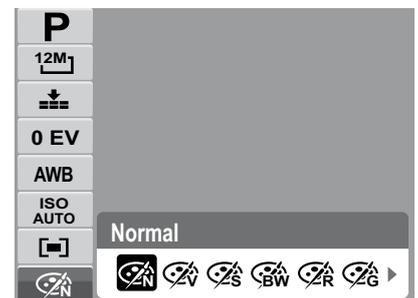
The Metering function lets you select the area of the subject or frame by which the camera measures light to record still images or movies.



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.

## Color Mode

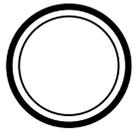
The Color Mode function lets you record still images or movies and apply different colors or tones for a more artistic effect.



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.

# Using the Record Menu



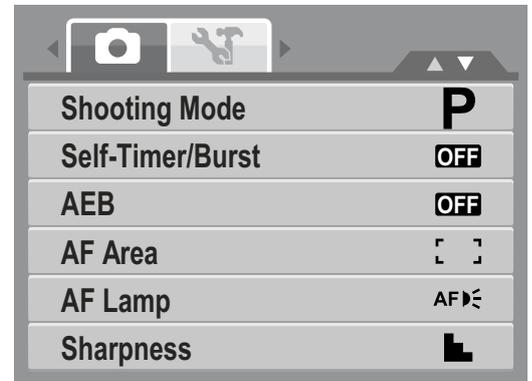
If you are in Shooting mode, you can access the Record menu simply by pressing the **MENU** button on your camera.

## Menu

When the menu is displayed, use the 4-way navigation control and the **SET** button to move through menu selections and apply your desired settings. To close the menu anytime, press the menu button again.

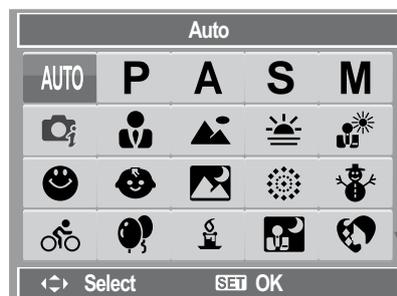
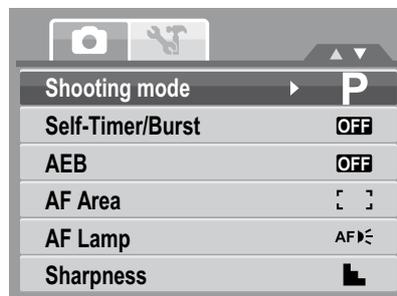
To go to Record Menu:

1. Set the camera to Shooting mode.
2. Press  to launch the Record Menu.
3. Use the ▲ or ▼ keys to move through the menu selections.
4. To select an item, press ⚡.
5. Change the submenu settings using the 4-way navigation control.
6. Press the **SET** button to save and apply settings.



## Setting the Scene Mode

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



The table below 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.
	Aperture Priority	This feature lets users to adjust the aperture value and the camera automatically selects the shutter speed to match the brightness.
	Shutter Priority	This feature lets users to adjust the shutter speed and the camera automatically selects the aperture value to match the brightness.
	Manual Exposure	This feature lets users to adjust the shutter speed and aperture value to correctly expose your images.
	Intelligent Scene	The camera detects the shooting conditions and automatically switches to the appropriate scene mode.
	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.
	Smile Capture	This feature uses face tracking to auto detect faces to capture. When smiles are detected, it continuously captures the image.
	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 beach and 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.

Icon	Item	Description
	Night Portrait	This feature is used to capture portrait pictures with night or dark background.
	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".
	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.
	Movie	This mode is used to record movie clips.
	Voice REC	This mode is used to record audio clips.

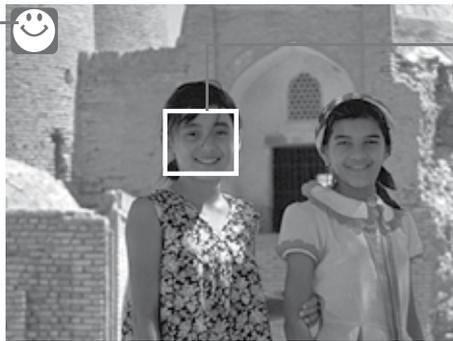
## Using Smile Capture Scene

The Smile Capture mode uses smile tracking to automatically capture images. Pressing the shutter button will enable the camera to take 6 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 Capture

1. Select 😊 from the Scene Mode submenu.

Smile Capture Icon



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

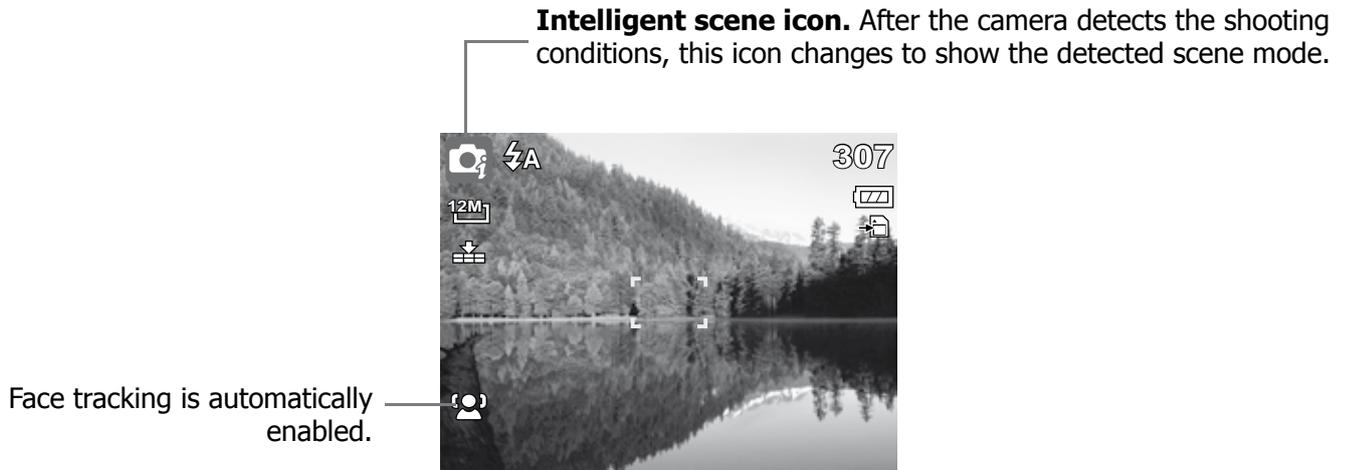
2. Focus the camera on the subject to capture.
3. Press the shutter button to start smile detection. The smile capture icon blinks every second and the white focus frame turns green to denote camera activity.
4. When a smile is detected, the camera will automatically take a shot of the image. It will continuously take 6 shots whenever a smile is detected.
5. To stop shooting before the 6 shots are taken, press the shutter button again. The smile capture icon stops blinking and the focus frame turns white.



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

## 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.



### To activate Intelligent Scene

1. Select  from the Shooting 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.



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.

	Landscape	<p>This mode is set when:</p> <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	<p>This mode is set when:</p> <ul style="list-style-type: none"> <li>• There is no face detected</li> <li>• The focus distance is within the macro range.</li> </ul> <p>This mode can only be detected when you half press the shutter button.</p>
	Night Scene	<p>This mode is set when:</p> <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 Blink Detection Mode

The Blink Detection mode tracks faces and determines captured image that contain subjects with blinked eyes. 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.



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 **Save Image** to save or **Cancel** to disregard.



## Using Aperture Priority Mode

### To activate Aperture Priority

1. Select **A** from the Scene Mode submenu.

Aperture Priority Icon



Displays the aperture value.

2. Use the keys to increase or decrease the aperture.
3. Press the shutter button to capture the image.

### To activate Aperture Priority

1. Select **S** from the Scene Mode submenu.

Shutter Priority Icon



Displays the shutter speed value.

2. Use the **▲** or **▼** keys to increase or decrease the shutter speed.
3. Press the shutter button to capture the image.

## Using Manual Exposure Mode

### To activate Manual Exposure

1. Select **M** from the Scene Mode submenu.

Manual Exposure Icon



Displays the aperture and shutter speed values.

2. Use the **▲** or **▼** keys to increase or decrease the aperture or shutter speed values.
3. Use the SET button to switch between aperture and shutter speed adjustment and vice

versa.

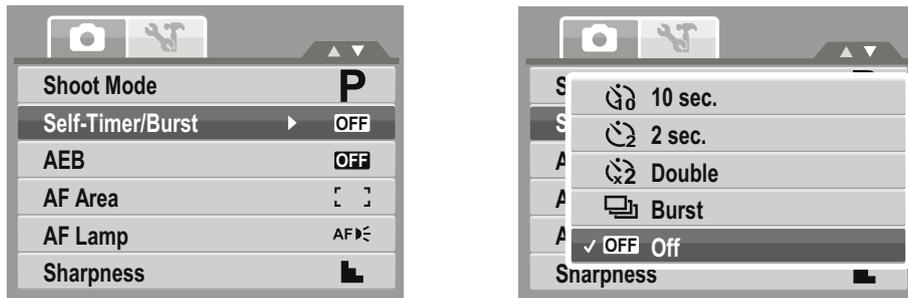
4. Press the shutter button to capture the image.



When you half press the shutter button, the difference between the correct and selected exposure is displayed in red.

## Setting the Self-Timer/Burst

Your camera features a Self-timer and Burst which can be set in the Self-Timer/Burst function in the Record Menu. 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 Self-Timer/Burst setting is automatically set to off when you turn off the camera.



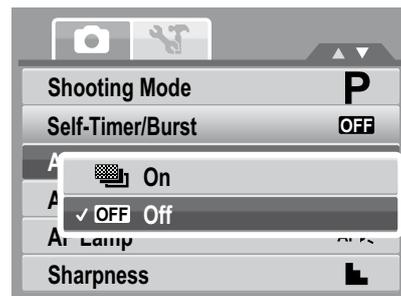
The table below shows the available Self-Timer/Burst settings.

Icon	Item	Description
	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.
	Double Self-timer	Performs delay and capture twice: <ul style="list-style-type: none"><li>• Performs a 10-second delay, then captures the image.</li><li>• Performs another 2-second delay then captures the image again.</li></ul>
	Burst	Performs continuous shooting when the shutter button is pressed. Stops shooting when the shutter button is released.
	Off	Captures an image without time delay.

## Setting the AEB

AEB stands for Automatic Exposure Bracketing. This feature captures the same image with 3 different exposure settings.

- The settings are recorded in the following order: standard exposure, under exposure, and over exposure.
- Available settings are: [On] and [Off].



## Setting the AF Area

AF stands for Automatic Focus. This feature determines the area on which the camera focuses.



The table below shows the available AF area settings.

Icon	Item	Description
	Face Tracking	The camera automatically detects the position of a face and sets the focus.
	Wide	The camera automatically selects focus area within the wide frame.
	Center	The focus area is fixed on the center.

## Setting the 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, emits an amber light by half pressing the shutter button allowing the camera to focus easily. Available settings are: [Auto] and [Off].



## Setting Sharpness

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

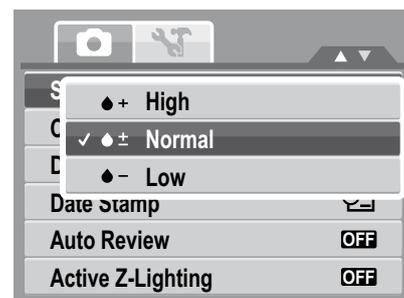


The table below shows the available Sharpness settings.

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

## Setting 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.

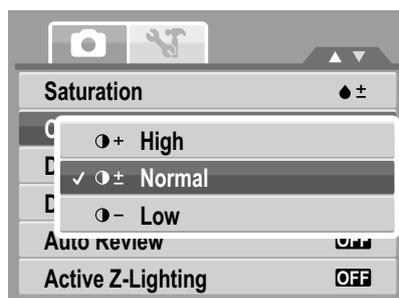


The table below shows the available Saturation settings.

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

## Setting Contrast

This function allows you to adjust the contrast of your photos.

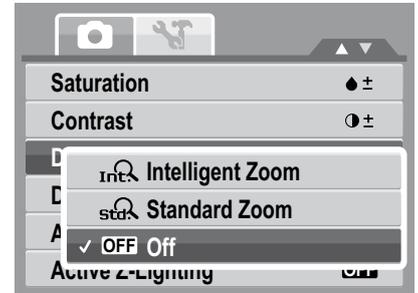


The table below shows the available Contrast settings.

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

## Setting the Digital Zoom

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



The table below shows the available Digital Zoom settings.

Icon	Item	Description
	Standard Zoom	Enlarges all image sizes up to a maximum of 5x, but the image quality deteriorates.
	Off	Uses the optical zoom only.

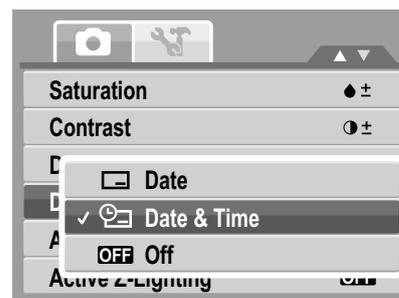
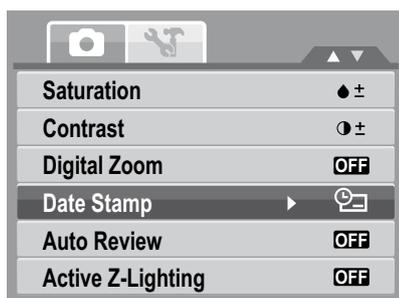


- Digital Zoom is not available in Smile Capture, Video, and Voice Recording modes.
- The maximum Intellect zoom scale varies depending on the image type and resolution.

## Setting the Date Stamp

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

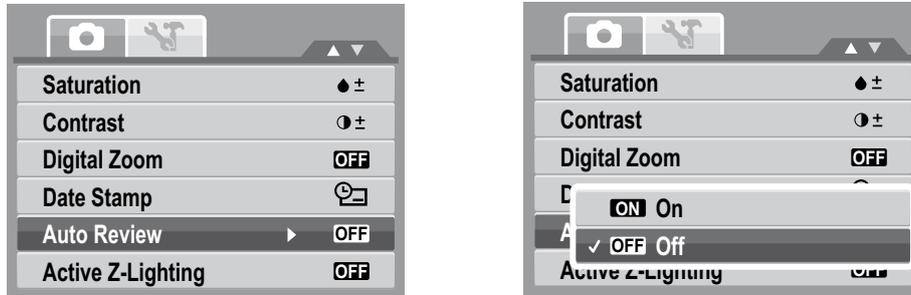


Available settings are as follows:

-  Date
-  Date & Time
- **OFF** Off

## Setting Auto Review

The Auto Review function lets you view the captured image right after shooting it. If Auto review is On, the camera will display the captured image for 1 second on the LCD monitor.



## Setting the Active Z-Lighting

The Active Z-Lighting adjusts the metering and applies the required Z-lighting according to shooting conditions. This function is only available for still images.

Available settings are: [Auto] and [Off].



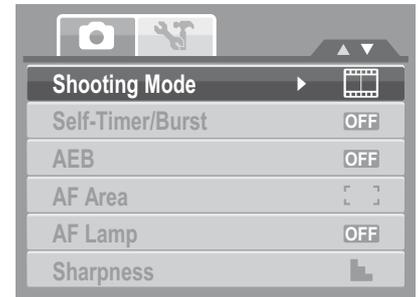
# Recording Movies

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.

1. From the Shooting mode menu, select **Video**.
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 pause recording, press the ▲ key.
6. To continue recording, press the ▲ key again.
7. To stop recording, press the Shutter button.



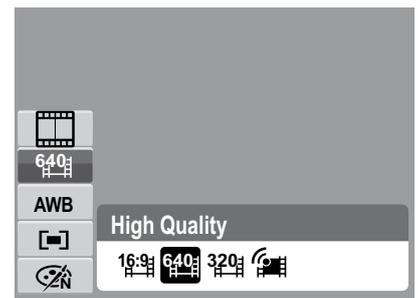
**Note** When the maximum capacity for a single video has been reached, simply press the shutter button again to continue recording. The camera will automatically stop recording when the memory capacity is full. Digital zoom is not available in movie recording.



Sound cannot be recorded while pressing the  control.

## Setting the Movie Size

The Movie Size function icon appears only in Video Mode. Use “**FUNC**” button to adjust the resolution and quality of movie clips.



## YouTube Mode

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

YouTube supports two file upload standards:

- Single File Uploader. The maximum movie file size is up to 100 MB.
- YouTube 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.

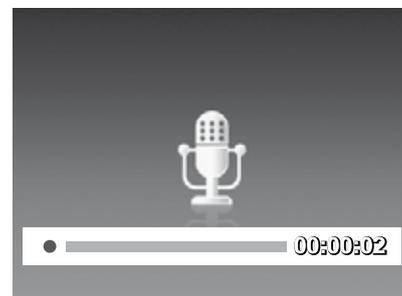
Recorded movies in the YouTube mode are stored following the DCF rule, however movies are saved in a specific folder named “\_UTUBE”.

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

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

## Recording Voices

1. From the Shooting mode menu, select  Voice REC. The Voice Recording screen layout is displayed on the LCD monitor.
2. Press the Shutter button to start recording.
3. Press the Shutter button again to stop recording.



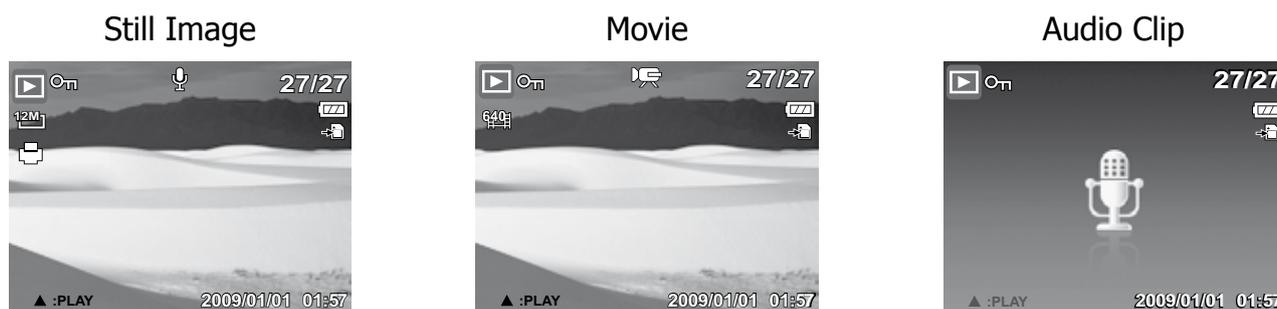
# Using the Viewing Functions

View images, videos and audio clips through your camera's Playback mode.

## Viewing in Single Navigation

The Single navigation mode displays the image one by one on the LCD monitor. To view images/videos/audio clips, follow the steps below.

1. Press the **Play**  button to set or turn on the camera to Playback mode.
2. The LCD monitor displays an image.



3. Use the  or  keys to view next/previous image/video/audio.
4. To play a movie or audio clip, press the  key.

## Viewing thumbnails

1. Press the **W** button to view 9-image thumbnails.
2. Use the navigation controls to move through the items.
3. Press the **SET** button to select the image and view it normally.

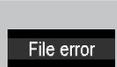


Thumbnail view

**Scroll bar.** If scroll bars appear, it indicates that the screen can be scrolled.

### Thumbnail icons

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

Icon	Item	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.
	Voice Record	Indicates a voice recording file.
	File Error	Indicates an error file.

## Zooming images

The zoom view function works with still images only.

- In normal view, press the **T** button repeatedly until the desired zoom view.
- The 4 arrows on the LCD monitor indicate that the image is zoomed in.
- Press the **Play**  button to close zoom view.



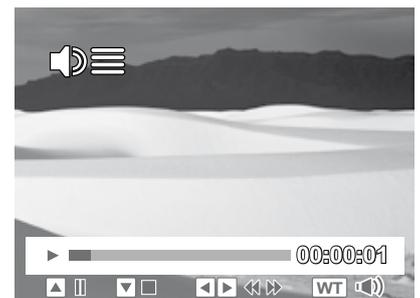
## Playing Movies



1. Set the camera to Playback mode.
2. Use the navigation controls to scroll through the saved images. A movie clip has a movie icon displayed on screen. See picture on the left.
3. Press the **▲** key to play the movie.

4. During playback, press the  or  keys to fast forward or rewind the movie. The camera supports forward and rewind speed of up to 4x.

5. During playback, use the  to control volume. Press the **T** button to increase volume. Press the **W** button to decrease volume.



6. Press the ▲ key to pause playback. Press the ▲ key again to resume.
7. To forward or rewind the movie frame by frame, press the ▲ key to pause playback, then press ⏪ or ⏩ the keys.
8. Press the ▼ key to stop the playback. The LCD monitor displays the movie frame image in Single navigation mode.

## To capture screenshot image from a movie clip

1. During playback of movie, press the ▲ key to pause playback on your desired movie frame to capture.
2. Press the Shutter button to capture screenshot.
3. The camera will automatically stop playback. The LCD monitor displays the captured image in Single navigation mode.



This feature does not function when the memory card is full or the folder cannot be created. The **SHUTTER** icon does not appear on the screen either.

## Playing Voice Recording

1. Set the camera to Playback mode.
2. Use the navigation controls to scroll through the saved images. When viewing a voice recording file, the LCD monitor displays the screen layout of Audio clips. See picture on the right.
3. Press the ▲ key to play the voice recording.
4. During playback, use the  to control volume. The volume icon appears on the screen. Press the **T** button to increase volume. Press the **W** button to decrease volume.
5. Press the ▲ key to pause playback. Press the ▲ key again to resume.
6. Press the ▼ key to stop the playback. The LCD monitor displays the image in Single navigation mode.



# Playing Voice Memo

Voice memo is separately recorded and attached to a captured image.



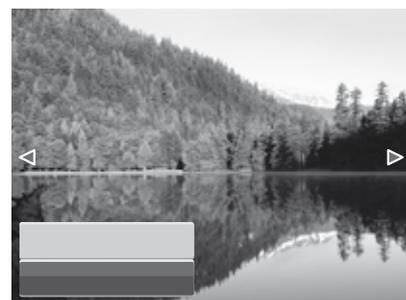
# Deleting an Image/Video/Audio

## Using the Delete Button

Use the **Delete** button on your camera to delete or mark an image/video/audio clip for deletion.



1. Set the camera to Playback mode.
2. View images/videos/audio clips in Single navigation mode.
3. Use the  or  keys to scroll the display.
4. When the desired image/video/audio clip is displayed on the LCD monitor, press the **Delete** button.
5. A confirmation selection appears on screen.
6. Select **Delete**.
7. Press the **SET** button to delete.
8. The next image is displayed on the LCD monitor. To delete another file, use the  or  to scroll through the images/videos/audio clips. Then, repeat steps 4 to 7.
9. To close the Delete function and go back to viewing in single navigation mode, select Cancel.

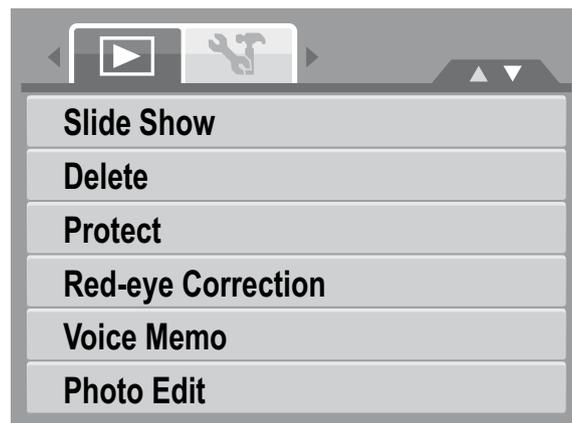


Locked files cannot be deleted at any time. When you try to delete a locked file, the camera displays "File Locked" message on the LCD monitor.

# Playback Menu

To go to Playback Menu:

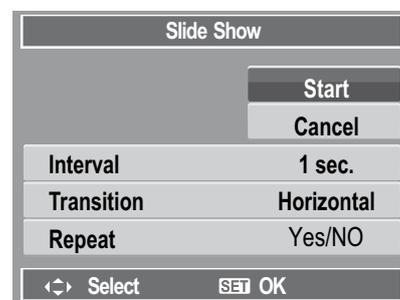
1. Set the camera to Playback mode.
2. Press  to launch the Playback Menu.
3. Use   keys to move through the menu selections.
4. To select a menu, press  or the **SET** button.
5. Change the submenu settings using the 4-way navigation control.
6. Press the **SET** button to save and apply settings.



## Slide Show

To view slide show:

1. From the Playback menu, select **Slide Show**. The Slide Show menu appears.
2. Set the Slide Show settings.
3. Select **Start**, then press the **SET** button to start the Slide Show.
4. During Slide Show, press the **SET** button to pause Slide Show.
5. Use the  or  keys to move through the options. Select whether to **Continue** or **Exit** the Slide Show.
6. Press the **SET** button to apply selected option.



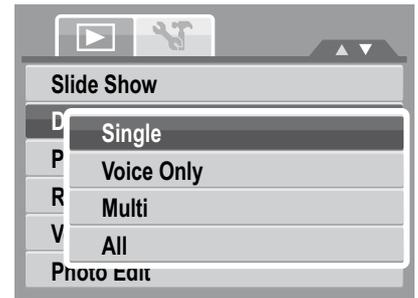
To change Slide Show settings:

1. From the Slide Show menu, use the  or  keys to move through the selections.
2. Select Interval setting. Press the  or  keys to adjust. Choose among the available interval settings: 1 sec, 3 sec, 5 sec, and 10 sec.
3. Select Transition setting. Press  or  the keys to adjust. Choose among the available transition settings:
  - Horizontal
  - Shrink
  - Fade
  - Vertical
  - Random
4. Select Repeat setting. Press the  or  keys to adjust. Available settings are: Yes, No.

## Delete

To delete a photo/video/audio clip:

1. From the Playback menu, select **Delete**.
2. The Delete submenu is displayed on the LCD monitor. Select available settings:
  - **Single**. Select one file to delete.
  - **Voice Only**. Delete only the attached voice memo, the image is retained in the memory.
  - **Multi**. Select multiple files to delete at the same time.
  - **All**. Delete all files.

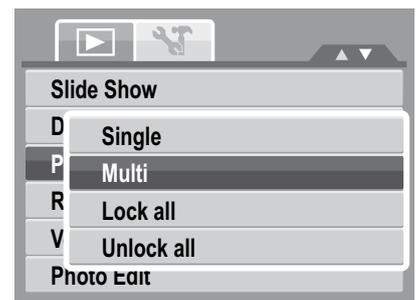


## Protect

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

To protect files:

1. From the Playback menu, select **Protect**.
2. The Protect submenu is displayed on the LCD monitor. Select available settings:
  - **Single**. Select one file to lock.
  - **Multi**. Select multiple files from the thumbnail view to lock.
  - **Lock All**. Lock all files.
  - **Unlock All**. Unlock all files.



## Red Eye Correction

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:

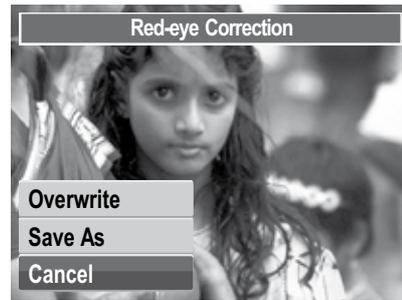
1. Set the camera to Playback mode.
2. Press the  or  keys to scroll and select an image.
3. Press the **MENU** button to launch the Playback menu.
4. Select **Red Eye** Correction.
5. Select **Start**.
6. Press the **SET** button to start correction.



Steps 5 and 6



Step 7

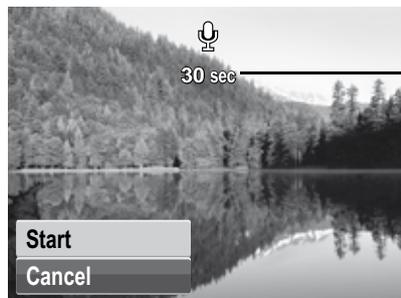


7. After completing Red eye correction, a menu selection appears. Select whether to:
  - **Overwrite.** Save and replace the old file with the new one.
  - **Save As.** Save the new file as a new one.
  - **Cancel.** Cancel red eye correction.
8. Press the **SET** button to save/cancel changes.

## Voice Memo

To record voice memo:

1. Set the camera to Playback mode.
2. Press the  or  keys to scroll and select an image to attach voice memo to.
3. Press the **MENU** button to launch the Playback menu.
4. Select **Voice Memo**.
5. Select **Start**, then press the **SET** button to start recording.



Time left (n seconds) for recording

6. Select **Stop**, then press the **SET** button to stop recording.

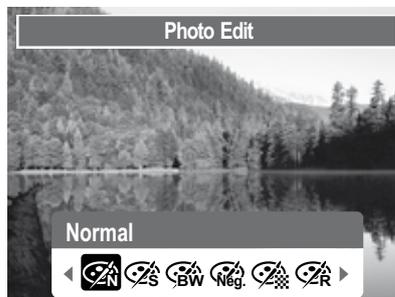


When you record voice memo to an image with an existing voice memo, the old recording is automatically changed to the new one.

## Photo Edit

To activate Photo Edit:

1. Set the camera to Playback mode.
2. Press the  or  keys to scroll and select an image to edit.
3. Press the **MENU** button to launch the Playback menu.
4. Select **Photo Edit**. The Photo Edit submenu appears.



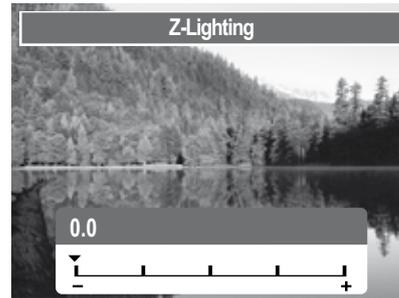
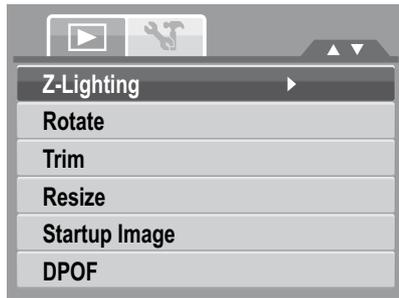
5. Press the  or  keys to scroll and select an option. As you move through the selection, the preview on the LCD monitor changes synchronously. The succeeding table shows the available settings.

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.
	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.

6. Press the **SET** button to apply changes and save the new file.

## 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.



## Rotate

The Rotate function lets you change the orientation of a saved photo. Rotated images are saved as a new file.



Normal orientation of image.

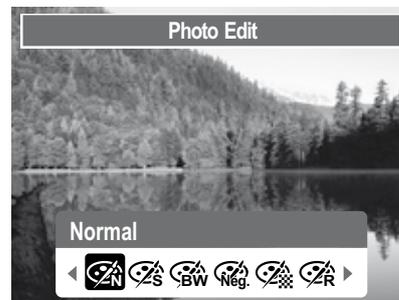


Image rotated at 90° clockwise.



Each time you press the SET button to rotate image, the image is rotated at 90° clockwise.

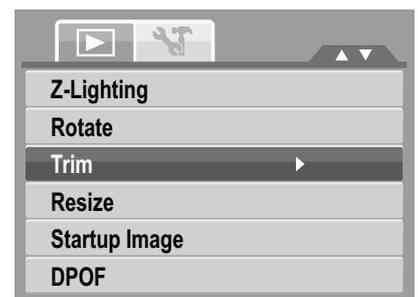
## Trim

The Trim function allows you to trim an image to another image size.

To trim an image:

1. Set the camera to Playback mode.
2. Use the  or  keys to scroll and select an image to trim.
3. Press the **MENU** button to launch the Playback menu.
4. Select **Trim**. The Trim screen layout is displayed on the LCD monitor.

5. Use the  control to change size.





6. Use the navigation controls to move the image.
7. Press the **SET** button to apply changes. A menu selection appears.
8. Select whether to:
  - **Overwrite.** Save and replace the old file with the new one.
  - **Save As.** Save the new file as a new one.
  - **Cancel.** Cancel resize.
9. Press the **SET** button to save/cancel changes.

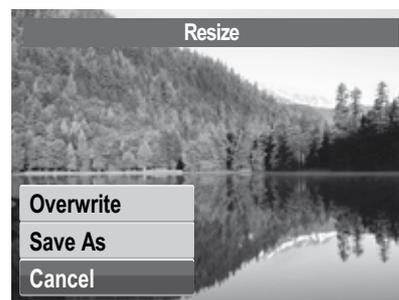
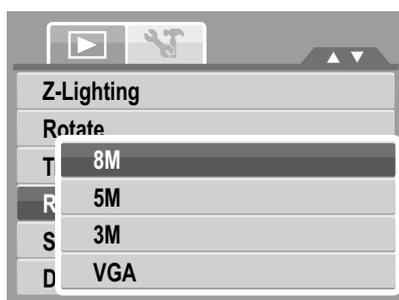


Trim function is not available for photos with image size set to VGA.

## Resize

The Resize function allows you to change the image resolution of large images to smaller ones.

1. • **Overwrite.** Save and replace the old file with the new one.
  - **Save As.** Save the new file as a new one.
  - **Cancel.** Cancel resize.
2. Press the **SET** button to save/cancel changes.



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

## Startup Image

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



## DPOF

The Digital Print Order Format (DPOF) function allows you to mark image 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.



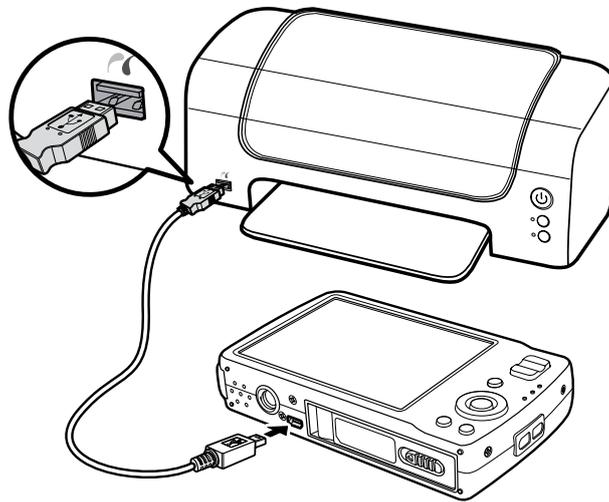
You can specify up to 99 copies for DPOF. If you specify 0 copies, the DPOF setting of that image is automatically disabled.

## PictBridge

The PictBridge function allows you to print images captured by your camera without connecting the camera to a PC. Print images with a PictBridge compatible printer directly.

To activate PictBridge:

Connect your camera to a PictBridge compatible printer using the USB cable. See illustration below.

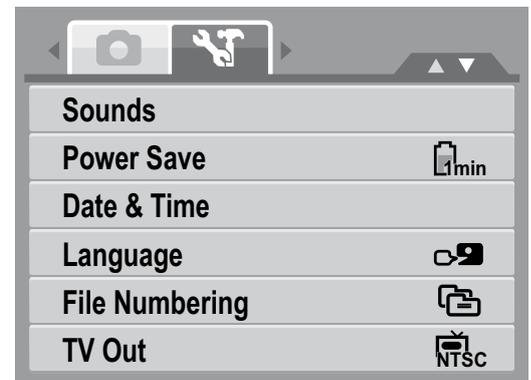


## Using the Setup Menu

The Setup menu allows you to configure general camera settings.

To go to Setup Menu:

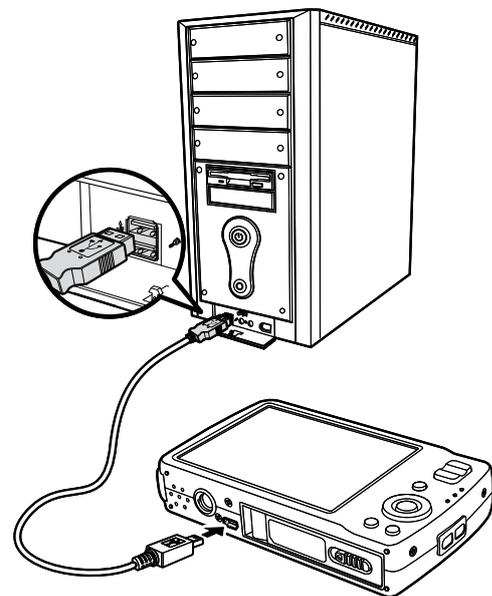
1. Press  to launch the Record/ Playback Menu.
2. Use the  or  keys to change the menu tab to **Setup**  menu.
3. Use the  or  keys to move through the menu selections.
4. To select an item, press the **SET** button or .
5. Change the submenu settings using the 4-way navigation control.
6. Press the **SET** button to save and apply settings.



# Making Connections

## Connecting the Camera to a 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 monitor.

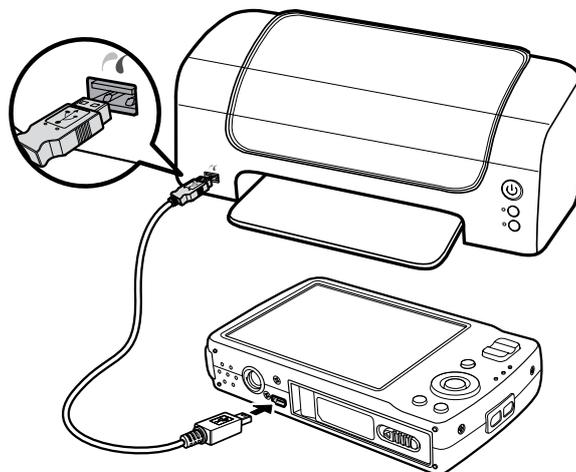


You can also use a card reader to access the memory card contents of your camera.

## Connecting the Camera to a Printer

You can print your photos directly using a PictBridge compatible printer.

1. Turn on your camera.
2. Set PictBridge settings.
3. Connect the camera to the printer using the USB cable.



# 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 "Protect" on page 39.
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

<b>Sensor</b>	12 Mega Pixels, Type: 1/2.3
<b>Lens</b>	Focal Length: $f = 6.3 - 18.9$ mm, 3X optical zoom, 5x digital zoom
<b>LCD Monitor</b>	3.0" color LCD
<b>Focusing Range</b>	Normal: 0.4m - Infinity Macro Wide: 10cm - 60cm Tele: 40 - 60cm
<b>Aperture</b>	$F = 3.1 - 5.6$
<b>Shutter</b>	Type: Mechanical and Electronic Shutter Speed: Auto: 1 - 1/2,000 sec. Manual: 15 - 1/2,000 sec. Night: 15 - 1/2,000 sec. Fireworks: 8 sec.
<b>File Format</b>	Still Image: EXIF 2.2 compatible format (JPEG compression) Video: AVI (MJPEG) Audio: WAV
<b>Resolution (Still image)</b>	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)
<b>Resolution (Video)</b>	16:9, 640 X 480, 320 X 240, YouTube
<b>Scene Mode</b>	Auto, Program, Aperture Priority, Shutter Priority, Manual Exposure, Intelligent Scene, Portrait, Landscape, Sunset, Backlight, Smile Detection, Kids, Night Scene, Fireworks, Snow, Sports, Party, Candlelight, Night Portrait, Soft Skin, Soft Flowing Water, Food, Building, Text, Auction, Blink Detection, Movie, Voice Rec
<b>Sensitivity</b>	Auto, 50, 100, 200, 400, 800, 1600, 3200 (available only for 3M resolution or lower)
<b>White Balance</b>	Auto, Daylight, Cloudy, Tungsten, Fluorescent_H, Fluorescent_L, Custom
<b>Exposure Control</b>	-2EV to + 2EV (1/3EV steps)
<b>Metering</b>	Multi, Spot, Center-weighted
<b>Self-Timer</b>	10 sec., 2 sec., Double
<b>Flash</b>	Auto, Auto/Red-eye Reduction, Slow Sync/Red-eye Reduction, Forced On, Forced Off

<b>Effect (Preview)</b>	Normal, Vivid, Sepia, Black & White, Red, Green, Blue
<b>Effect (Playback)</b>	Normal, Sepia, Black & White, Negative, Mosaic, Red, Green, Blue
<b>Storage</b>	Internal memory: 32MB flash memory Real size for mass storage: about 9 MB External memory: SD (up to 4GB), SDHC card (up to 16GB guaranteed)
<b>OSD Language</b>	English, Spanish, German, French, Italian, Portuguese, Dutch, Czech, Hungarian, Polish, Turkish, Russian, Swedish, Greek, Romanian, Arabic, Thai, Japanese, Korean, Simplified Chinese, Traditional Chinese, Brazil Portuguese, Croatian, Finnish, Danish, Norwegian, Malay, Indonesia, Slovene, Bulgarian, Slovak
<b>Interface</b>	USB / AV OUT
<b>TV system</b>	NTSC, PAL
<b>Battery</b>	Lithium Ion Battery
<b>Operating Temperature</b>	0° C - 40° C
<b>Operating Humidity</b>	0% - 90%
<b>Microphone</b>	Built-in
<b>Speaker</b>	Built-in
<b>Dimensions</b>	Max. 97.5 X 57.7 X 18.9 mm Normal 95.5 X 56.7 X 17.6 mm
<b>Weight</b>	130g

# Getting Help

Should you have a technical support question or your HP Digital Camera require service within the warranty period, please contact the original point of purchase or an authorized HP reseller in your country. If service is not available at those locations, please contact an HP Branded Product warranty agent from the support contact list provided below. A service agent will work with you to troubleshoot your issue and if necessary, issue a Return Material Authorization (RMA) number in order to replace your HP Branded Product. For warranty claims, you will be required to provide a copy of your original dated sales receipt as proof of purchase and the issued RMA number. You will be responsible for shipping charges when shipping the product to the service center. The service agent will provide you with an address and you will also be responsible for any shipping charges to the warranty service center. Once your product is received by this service center, a replacement unit will be shipped back to you typically within 5 business days.

<b>Email Support:</b>	
<b>Language</b>	<b>Email Address</b>
Dutch	hollands@hpodd.com
Chinese	simp.chinese@hpodd.com
	trad.chinese@hpodd.com
English	english@hpodd.com
Français	francais@hpodd.com
Deutsch	deutsch@hpodd.com
Italiano	italiano@hpodd.com
Japanese	nippon@hpodd.com
Korean	korean@hpodd.com
Portuguese	portugues@hpodd.com
Espanol	espanol@hpodd.com
Svenska	svensk@hpodd.com

<b>Contact/phone Support:</b>		
<b>Country</b>	<b>Language</b>	<b>Number</b>
<b>Europe Region (EMEA)</b>		
België	Dutch and German	+ 32 2700 1724
FRANCE	French	+ 33 171230454
DEUTSCHLAND	German	+ 49 6950073896
IRELAND	English	+ 353 1850882016
ITALIA	Italian	+ 39 269682189
NETHERLANDS	Dutch	+ 31 202015093
ESPAÑA	Spanish	+ 34 914533458
SWITZERLAND	German/French/Italian	+ 41 18009686
UK	English	+ 44 2073652400
<b>North America</b>		
United States	English	1.866.694.7633
Canada	English and French	1.866.694.7633

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