

PENTAX

Optio E70L

User's Manual

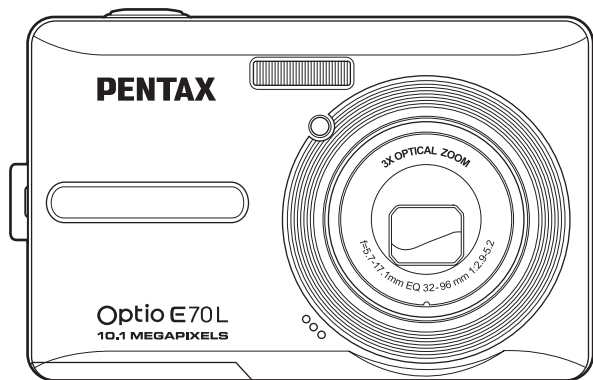


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English

Preface


About this Manual

Thank you for purchasing this PENTAX Digital Camera. Please read this manual before using the camera in order to get the most out of all the features and functions. Keep this manual safe, as it can be a valuable tool in helping you to understand all the camera capabilities.

Regarding Copyrights

Images taken using the PENTAX Digital Camera that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

Trademark Recognition

- PENTAX and Optio are trademarks of HOYA CORPORATION.
- SDHC logo () is trademark.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and other countries.
- Windows Vista is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- Adobe, the Adobe logo, and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- ArcSoft is the trademark of ArcSoft Inc.
- All other brands or product names are trademarks or registered trademarks of their respective companies.

To users of this camera

- There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields.
- The liquid crystal panel used in the display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image.
- There is a possibility that the illustrations and the display screen in this manual are different from the actual product.

Regarding Product Registration

In order to better serve you, we request that you complete the product registration, which can be found on the CD-ROM (S-SW86) supplied with the camera or on the PENTAX website. Thank you for your cooperation.

USING YOUR CAMERA SAFELY

We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols.



Warning

This symbol indicates that violating this item could cause serious personal injuries.



Caution

This symbol indicates that violating this item could cause minor or medium personal injuries, or material losses.

About the Camera



Warning

- Do not attempt to take the camera apart or remodel the camera. High voltages are present within the camera, and there is therefore a danger of electric shocks if the camera is taken apart.

- If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock.
- To avoid the risk of it being swallowed by mistake, keep the memory card out of the reach of small children. Seek medical attention immediately if a card is accidentally swallowed.
- Wrapping the strap of the camera around your neck is also dangerous. Please take care that small children do not hang the strap around their necks.
- If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the batteries, and contact your nearest PENTAX Service Center. Continued use of the camera may result in fire or electric shock.



Caution

- Never try to disassemble or short the batteries. Also, do not dispose of the batteries in a fire, as they may explode.
- Do not place your finger on the flash when it is discharging as there is a risk of burns.
- Do not discharge the flash while it is touching your clothing as there is a risk of discoloring of the clothing.
- If any leakage from the battery should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately.
- If any leakage from the battery should come in contact with skin or clothes, wash the affected areas thoroughly with water.
- Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not to burn yourself during removal.
- Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.
- Should the liquid crystal display be damaged, be careful of glass fragments. Also, be careful not to allow the liquid crystal to get on your skin or in your eyes or in your mouth.
- Depending on your inherent factors or physical condition, the use of the camera may cause itching, rashes or blisters. In case of any abnormality, stop using the camera and get medical attention immediately.

Handling Precautions for Batteries

- This camera uses two AA alkaline, AA lithium or AA Ni-MH batteries. Do not use batteries other than those specified here. Using some other type of battery may cause the camera to function poorly, or the batteries may rupture or cause a fire.
- AA alkaline and AA lithium batteries cannot be recharged. Do not try to take the batteries apart. The batteries may rupture or leak if you try to charge them or take them apart.
- Do not remove the external seal of the battery. If the seal is removed, the battery may short and may cause a fire, rupture, leak or heat.
- When replacing the batteries, do not combine different brands, types or capacities. Also, do not combine old batteries with new ones. Doing so may cause the batteries to rupture or cause a fire.
- Do not insert the batteries with the positive (+) and negative (-) poles in the wrong orientation. Doing so may cause the batteries to rupture or cause a fire.

Care to be Taken During Handling

- Take the Worldwide Service Network listing that is included in the package with you when traveling. This will be useful if you experience problems abroad.
- When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (memory card), etc.
- The lens on this camera is not interchangeable. The lens is not removable.
- Do not clean the product with organic solvents such as thinner, alcohol or benzene.
- Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside.
- Storing the camera where pesticides and chemicals are handled should be avoided. Remove from case and store in a well-ventilated place to prevent the camera from becoming moldy during storage.
- As this camera is not waterproof, do not use the camera where it may come in contact with rain, water or any other liquid.
- Ensure that the camera is not subjected to substantial vibrations, shocks or pressure as this may cause damage or malfunction. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, ship, etc. If the camera is subjected to substantial

vibrations, shocks or pressure, take your camera to your nearest PENTAX Service Center and have it checked.

- The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F).
- The liquid crystal display will become black at a high temperature but will return to normal when normal temperatures are returned to.
- The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a fault.
- Periodic checks are recommended every 1 to 2 years in order to maintain high performance.
- If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided.
- Be careful not to allow dirt, mud, sand, dust, water, toxic gases or salt to enter the camera as this may damage the camera. Wipe away any raindrops or water droplets and allow the camera to dry.
- Please note that formatting a memory card or internal flash memory will delete all data; however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera memory at your own risk.
- Please do not press forcefully on the display. This could cause breakage or malfunction.
- Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the display.
- When using a tripod with the camera, be careful not to overtighten the screw in the tripod socket on the camera.

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:

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

Package Contents

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

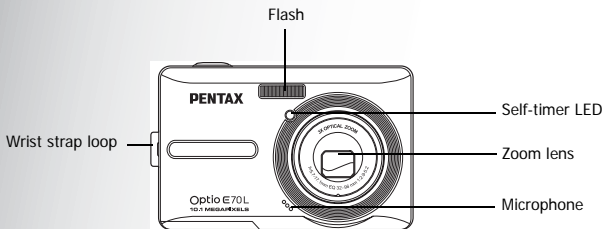
- Digital camera
- USB/AV 3-in-1 cable
- Wrist strap
- Quick start guide for 7 regions
- Bundled CD-ROM (Application Software and User's Manual for 10 regions)

Main Features

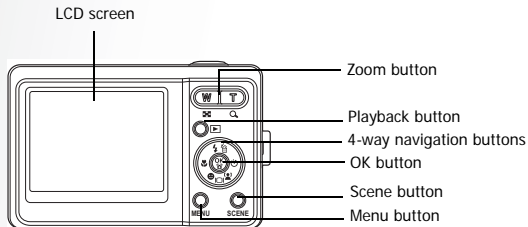
- 10.1 mega pixels resolution
- 15x zoom (Up to 3x optical zoom and 5x digital zoom)
- 1/2.3 inch CCD image sensor
- 2.4 inch TFT LCD monitor
- Approx. 11MB internal flash memory, supports SD/MMC memory cards from 32MB to 16GB.
- Sleek and slim design
- Easy-to-use button interface
- Slideshow feature to review your pictures and movies
- AV output to view your pictures and movies on your TV
- USB port to transfer photos and movies to your PC

Camera Views

Front View

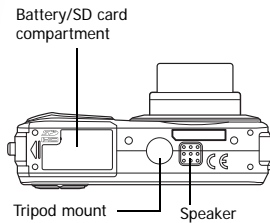
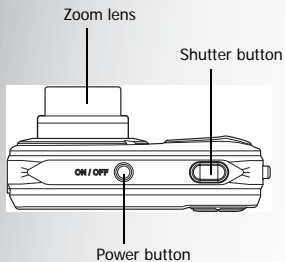


Back View

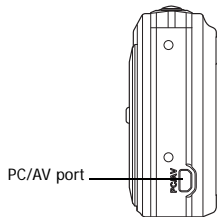
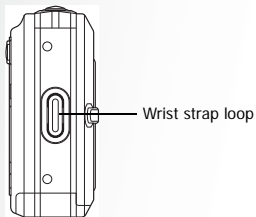


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Top View/ Bottom View



Left / Right View




LED Indicators






LED	LED Status	Camera Status
Self-timer LED	Off	Self-timer off.
	Red (blinking) (10 sec)	Timer count down, flash after 10 seconds.
	Red (blinking) (2 sec)	Timer count down, flash after 2 seconds.




Camera Buttons

Navigation Buttons

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

















Icon	Button	Function
OK/ 	OK/ Anti-shake	<ol style="list-style-type: none"> 1. Confirm a selection when using the OSD menus 2. In Capture mode: <ul style="list-style-type: none"> • Press to enable/disable the Anti-Shake in Auto mode • Enable AF area selection when SELECTED AREA is selected in FOCUS ZONE 3. In Video mode: <ul style="list-style-type: none"> • Press to enable/disable the Anti-shake function 4. In Playback mode: <ul style="list-style-type: none"> • Press to start and pause the video playback • Press to play and pause the audio playback • Press to stop the voice memo playback 5. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to confirm the selection

	Up/Flash/ Delete	<ol style="list-style-type: none"> 1. Move up in the OSD menus 2. In Capture mode: <ul style="list-style-type: none"> • Scroll through the flash mode options (Auto, Off, Fill and Red-eye Reduction.) • Press to delete during  mark appears on LCD. (QUICK VIEW QV has to be set "ON" at SETUP  mode.) 3. In Playback mode: <ul style="list-style-type: none"> • Press to pan up in zoom in mode • Press to move up in the thumbnail display • Press to delete image/s 4. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to scroll up through a menu
	Right/Self-timer/ Burst mode	<ol style="list-style-type: none"> 1. Move right in the OSD menus 2. In Capture mode: <ul style="list-style-type: none"> • Press to scroll through the Self-timer/Burst/Multi-Burst mode 3. In Video mode: <ul style="list-style-type: none"> • Press to scroll through the Self-timer options 4. In Playback mode: <ul style="list-style-type: none"> • Press to pan right in zoom in mode • Press to navigate to next image in single image display • Press to move right in the thumbnail display • Press to fast forward video playback during Pause  mode 5. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to select the next image in THIS IMAGE submenu





	<p>Down/Screen/ Face Detection/ Smile Detection</p>	<ol style="list-style-type: none"> 1. Move down in the OSD menus 2. In Capture mode: <ul style="list-style-type: none"> • Press to enable the following functions: full icon, full icon with histogram, face detection, smile detection, and simple display (hide all icons except the mode icon). Press again to turn all icons back on the LCD screen. <p>Note: Face and smile detection functions are not available in Sport, Landscape, Night Landscape, Museum, Sunset, Fireworks, Foliage, Aquarium, and Copy modes.</p> 3. In Video mode: <ul style="list-style-type: none"> • Press to turn off extra icons on the LCD screen, press again to turn all icons back on the LCD screen 4. In Playback mode: <ul style="list-style-type: none"> • Press to pan down in zoom in mode • Press to move down in the thumbnail display • Press to show the file information 5. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to scroll down through a menu
	<p>Left/Macro</p>	<ol style="list-style-type: none"> 1. Move left in the OSD menus 2. Go up to the previous level in the OSD menus 3. In Capture mode: <ul style="list-style-type: none"> • Press to enable Macro mode. Macro icon displays on the LCD screen 4. In Playback mode: <ul style="list-style-type: none"> • Press to pan left in zoom in mode • Press to navigate to previous image in single image display • Press to move left in the thumbnail display • Press to fast rewind video playback during Pause  mode 5. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to select the previous image in THIS IMAGE submenu

The Scene Button




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

Mode Type	Icon	Function
Auto		Scroll to Auto mode.
P-Mode (Program Mode)		Scroll to Program mode.
Sport		Scroll to Sport mode.
Landscape		Scroll to Landscape mode.
Night Landscape		Scroll to Night Landscape mode.
Portrait		Scroll to Portrait mode.
Night Portrait		Scroll to Night Portrait mode.
Museum		Scroll to Museum mode.
Snow		Scroll to Snow mode.
Sunset		Scroll to Sunset mode.
Fireworks		Scroll to Fireworks mode.
Beach		Scroll to Beach mode.
Party		Scroll to Party mode.
Foliage		Scroll to Foliage mode.
Aquarium		Scroll to Aquarium mode.
Kids & Pets		Scroll to Kids & Pets mode.

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
Copy		Scroll to Copy mode.
Backlight		Scroll to Backlight mode.
Video		Scroll to Video mode.
Audio		Scroll to Audio mode.

Function Buttons

Icon	Button	Function
MENU	Menu	Press to display the Menu options
	Playback	Press to review photo/video/audio clips saved in the internal memory or on the memory card
T / 	Zoom in	In Capture mode: <ul style="list-style-type: none">• Press to zoom in on the subject to be taken In Playback mode: <ul style="list-style-type: none">• Press to zoom in on saved photos
W / 	Zoom out	In Capture mode: <ul style="list-style-type: none">• Press to zoom out from the subject to be taken In Playback mode: <ul style="list-style-type: none">• Press to zoom out of saved photos• Press to view thumbnails of all current saved media

LCD screen

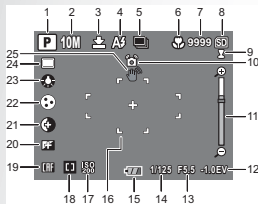
The 2.4" TFT LCD screen shows all important information regarding camera settings as well as the visual image for your photo or video.

Use the **SCENE** button to switch between screen modes. Press the **Down/Screen**  / **Face Detection**  / **Smile Detection**  button to switch among a Full display with histogram and without histogram, Face detection, Smile detection or a Simple display (only mode icon and focus area are shown while other icons are hidden).

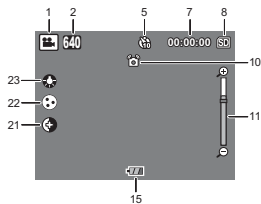
Camera Buttons

Capture/Video Mode Display

Capture Mode







































Video Mode























No.	Name	Scene	Icon
1	Scene indicator	Auto	
		P-Mode	
		Sport	
		Landscape	
		Night Landscape	
		Portrait	
		Night Portrait	
		Museum	
		Snow	
		Sunset	
		Fireworks	
		Beach	
		Party	










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		Foliage	
		Aquarium	
		Kids & Pets	
		Copy	
		Backlight	
		Video	
		Audio	
2	Image Resolution	10M	
		8.9M 3:2	
		8M	
		5M	
		3M	
		2.1M 16:9	
		2M	
		VGA	
3	Image Quality	Best	
		Better	
		Good	
4	Flash	Auto Flash	
		Flash Off	
		Fill Flash	
		Red-eye Reduction	

5	Self-timer/ Burst mode	Self-timer	10 Seconds	
			2 Seconds	
		Burst Mode		
		M-Burst		
6	Macro indicator	Macro Mode		
7	Image Counter	Capture Mode	Quantity	9999
		Video Mode	Time	00:00:00
8	Memory Interface	SD Card		
		Internal Memory		
9	Date Stamp	-		
10	Anti-Shake	-		
11	Zoom Bar	-		
12	EV Compensation	-		-2.0EV ~ +2.0EV
13	Aperture Value	-		
14	Shutter Speed	-		2~1/2000
15	Battery Indicator	Battery Full		
		Battery Medium		
		Battery Low		
		Battery Insufficient		 Blinking
16	AF Frame	-		-

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17	ISO Speed	Auto	
		ISO 80	
		ISO 100	
		ISO 200	
		ISO 400	
		ISO 800	
		ISO 1600	
18	Focus Zone	Multi-Zone	
		Center	
		Selected Area	
19	Continuous AF	-	
20	Sharpness	High	
		Normal	
		Low	
21	Contrast	High	
		Normal	
		Low	
22	Saturation	High	
		Normal	
		Low	

23	White Balance	Auto	
		Sunny	
		Tungsten	
		Fluorescent	
		Cloudy	
24	AE Metering	Matrix	
		Center Weighted	
		Spot	
25	Camera Steady Warning	-	

Camera Setup

Attaching the Wrist Strap

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

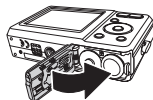
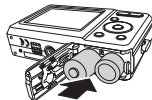
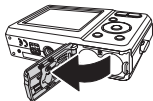
1. Insert the short loop of the strap in the strap eyelet.
2. String the larger loop of the strap through the short loop and pull tight to attach the strap to the camera.



Inserting the Batteries

Follow these instructions to insert two batteries into the battery compartment.

1. Open the battery compartment on the bottom of the camera.
2. Insert the batteries into the compartment observing the correct polarity.
3. Close the battery compartment.



Note: This camera uses two AA alkaline, AA lithium or AA Ni-MH batteries. Do not use batteries other than those specified here.

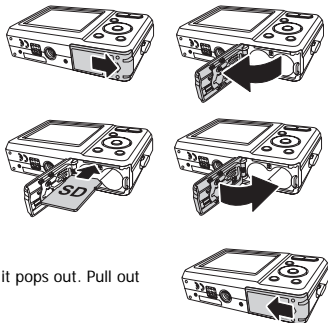
Inserting an SD/MMC Memory Card

The camera features Approx. 11 MB internal flash memory but you may also use an optional SD/MMC memory card for additional storage.

Follow these instructions to insert the SD/MMC card.

1. Open the battery compartment on the bottom of the camera.
2. Insert the SD/MMC card into the memory card slot as shown. (Label side up)
3. Close the battery compartment.

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



Turning On

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

First Time Use

Press the **Power** button as described on page 16, a welcome screen displays momentarily on the LCD screen.



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



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



Note:

If the Date and Time is reset (when the batteries die or are removed and the camera is not used for a long period), the Date and Time setup screen displays automatically.

Getting Started


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

Taking Photos

Taking a photo with the camera is very simple.


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

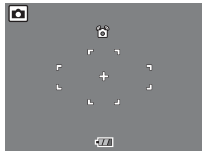
1. Frame the shot on the LCD screen and press the **Shutter** button halfway. The camera automatically adjusts the focus and exposure. The AF Frame turns green when ready.
2. Press fully and hold the **Shutter** button to capture the image.

When a camera steady warning icon  appears, hold the camera as still as possible, as a longer exposure time is required.



Anti-Shake Function

This function is available in **Auto**  capture mode. Press the **OK** button to enable the Anti-Shake function, and press again to disable it.

An **Anti-Shake** icon  displays on the LCD screen when the function is activated.





Using Macro Mode

Macro mode is designed for close-up photography and can capture all detail even when your subject is very close to the camera. Press the **Left/Macro**  navigation button. The Macro icon  displays on the LCD screen.

Note:



The camera supports seamless AF in Auto/P-mode with which a greater focus range is achieved without selecting the focus mode manually.

1. In Auto/P-mode with Macro mode  setting: AF scans objects from 70cm to the lens' closest focus distance (wide:10cm, Tele:35cm). After completing this Macro scan, if no object is focused in Macro range, then AF will extend to perform the normal scan.
2. In Auto/P-mode with no Macro mode  setting: AF scans objects from infinity to normal range(0.6m) first. If AF can't adjust focus in the first stage, then continues to scan from normal range to the closest focus distance (Macro mode).

The benefit of seamless AF is that focus point is determined automatically for objects in a greater range. Note that, however, due to scanning the wider range, longer scanning time may be required.

Setting the Flash Mode

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

Press the **Up/Flash** /Delete  navigation button to scroll through the four modes on the LCD screen. The flash setting remains the same for subsequent photos until you change it as described above.



Auto flash: The flash fires automatically when needed.



Flash off: The flash is turned off.



Fill flash: The flash always fires.





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

Using the Zoom in/out Function

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







To use the zoom:

1. Press the right side of the Zoom button **T**  to zoom in on your subject.
2. Press the left side of the Zoom button **W**  to zoom out from your subject.

Using the Self-timer and Burst Photography

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

To set the self-timer/burst mode:

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

Note:**Burst Mode****Take photos until shutter button is released.****Multi-Burst Mode****16 photos continuously by pressing the shutter button once.**

Setting the Scene Mode





















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

To select scene modes:

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

1. Use the **Left/Right/Up/Down** navigation buttons to scroll through the modes.



-  Auto
-  P-Mode
-  Sport
-  Landscape
-  Night Landscape
-  Portrait
-  Night Portrait
-  Museum
-  Snow
-  Sunset
-  Fireworks
-  Beach
-  Party
-  Foliage
-  Aquarium
-  Kids & Pets
-  Copy
-  Backlight
-  Video
-  Audio

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

Face and Smile Detection AF/AE Function

The face (☞) and smile (☺) detection functions can be set on and off with each press of the **Down/Screen** [O] navigation button in the following capture modes: Auto, P-Mode, Portrait, Night Portrait, Snow, Beach, Party, Kids & Pets, Backlight. When the subject's face/ smile is detected, the white focus frame appears to track faces/smiles while the camera or people are moving.



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

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

To disable the face and smile detection function, press the **Down/Screen** [O] navigation button again.

Recording Videos

You can also record video clips with the camera.




To record a video clip:

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

Recording Audio Files

You can also record audio files with the camera.

To record an audio file:


1. Press the **SCENE** button and select the **Audio**  mode with 4-way navigation buttons, then press the **OK** button to confirm.
2. Press the **Shutter** button to start recording. A counting up timer will be displayed during audio recording.
3. Press the **Shutter** button again to stop recording, and ready to the next audio recording.
4. In playback mode (press the  button), press the **OK** button to playback the audio. Press the **Up/Flash**  navigation button to delete the recording if needed.

Recording Voice Memos

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

In Capture mode:

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

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

In Playback mode:

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

Capture Settings

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

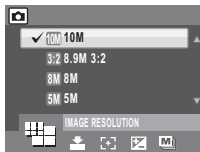
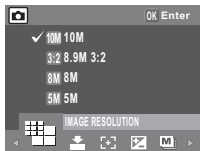
The Capture Menu

To access the Capture menu:

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

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

Note: The displayed options in this section may vary according to the mode selected.



25 Capture Settings

Image Resolution

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

- 10M(3648x2736) (default)
- 8.9M(3648x2432) (3:2)
- 8M(3264x2448)
- 5M(2576x1932)
- 3M (2048x1536)
- 2.1M (1920x1080) (16:9)
- 2M (1600x1200)
- VGA (640x480)

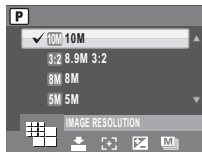
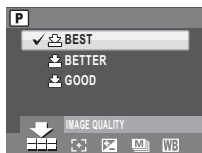


Image Quality

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

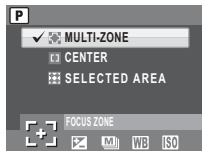
- BEST (default)
- BETTER
- GOOD



Focus Zone

The **Focus Zone** setting allows you to select the number of zones the camera will focus on when taking a photo. Use the **Up/Down** navigation buttons to select from the options. Three settings for focus zone are available:

- MULTI- ZONE (default)
- CENTER
- SELECT AREA: Sets the focusing area to one of points in the AF area

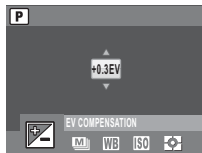


Note: In Auto Mode, there is no "Selected Area" item.

EV Compensation

The **EV Compensation** menu allows you to adjust the exposure or amount of light that enters the lens while capturing photos or videos. Use this feature to take pictures that are intentionally overexposed or underexposed.

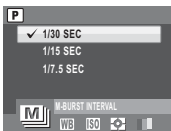
Use the **Up/Down** navigation buttons to modify the value. To brighten, select a positive (+) value. To darken, select a negative (-) value. This setting can be modified from -2.0EV to +2.0EV in a 1/3EV increment/decrement.



M-Burst Interval

The **M-Burst Interval** setting allows you to adjust the burst interval when the multi-burst function is enabled. Use the **Up/Down** navigation buttons to select from the options. Three settings for M-Burst Interval are available:

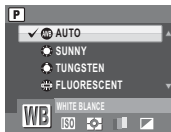
- 1/30 SEC (default)
- 1/15 SEC
- 1/7.5 SEC



White Balance

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

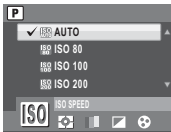
- AUTO (default)
- SUNNY
- TUNGSTEN
- FLUORESCENT
- CLOUDY



ISO Speed

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

- Auto (default)
- ISO 80: For outdoor photography in bright sunlight.
- ISO 100: For outdoor photography in bright sunlight.



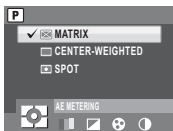
27 Capture Settings

- ISO 200: For outdoor or indoor photography in bright light.
- ISO 400: For indoor photography or low light environments.
- ISO 800: For moving object photography or low light environments without using flash.
- ISO 1600: For moving object photography or low light environments without using flash.

AE Metering

AE Metering allows you to select the area of the subject or frame that the camera selects to measure light. Use the **Up/Down** navigation buttons to select from the options. Three AE metering settings are available:

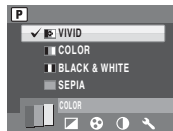
- **MATRIX** (default): Camera metering is set for evaluating 16 zones of objects with intelligent weighting in the frame.
- **CENTER WEIGHTED**: The metering puts more emphasis on the center of the image while still looking at the entire scene.
- **SPOT**: Camera metering is set for the brightness of a single object in the center of the frame.



Color

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

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



Sharpness

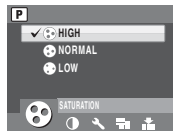
The **Sharpness** setting allows you to enhance the finer details of your photos. Use a higher setting for very sharp photos and a lower setting for a soft-toned photo. Use the **Up/Down** navigation buttons to select from the options. Three sharpness settings are available:

- **HIGH**
- **NORMAL** (default)
- **LOW**



Saturation

The **Saturation** setting allows you to adjust the saturation of the colors in your photos. Use a high saturation setting for rich colors and a lower



saturation setting for more natural tones. Use the **Up/Down** navigation buttons to select from the options. Three saturation settings are available:

- HIGH
- NORMAL (default)
- LOW

Contrast

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

- HIGH
- NORMAL (default)
- LOW




Setup

See “The Setup Menu” on page 41 for more details on the setup menu options.

Video Capture Menu

To access the video menu:

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



Video Resolution

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

- 640X480(default)
- 320X240



White Balance

See “White Balance” on page 26 for more details on the setup menu options.

29 Capture Settings

Color

See "Color" on page 27 for more details on the setup menu options.

Saturation

See "Saturation" on page 27 for more details on the setup menu options.

Contrast

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

Note: The displayed options in the Capture Menu may vary according to the mode selected.

Photo, Video & Audio Playback

Playback Mode Display


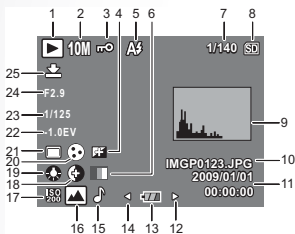
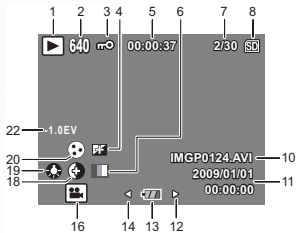
Press the Down/Screen  navigation button at Playback mode.










Photo Playback



Video Playback



31 Photo, Video & Audio Playback

No.	Name	Icon
1	Playback mode	
2	Image resolution	Photo mode: 10M 32 8M 5M 3M 16:9 2M VGA Video mode: 640 (640x480), 320 (320x240)
3	Protect	
4	Sharpness	
5	Flash mode	Photo mode:  Video mode: 00:00:00 (Length of the video clip.)
6	Color mode	
7	File x of y number of files	x/y
8	SD card / Internal memory	
9	Histogram	
10	File Name	Photo mode: IMGP0123.JPG Video mode: IMGP0124.AVI
11	Date and Time	2009/01/01 00:00:00
12	Next	Move to next item.
13	Battery status	
14	Previous	Move to previous item.
15	Voice memo	

16	Mode icons	Please see "Capture/Video Mode Display" on page 10 for detailed information.
17	ISO Speed	
18	Contrast	
19	White balance	
20	Saturation	
21	AE Metering	
22	EV Compensation	+2.0EV ~ -2.0EV
23	Shutter speed	1/2000 sec. ~ 2 sec.
24	Aperture value	
25	Image quality	


Viewing Photos / Videos on the LCD Screen

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

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


Viewing M-Burst Photos

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

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

Listening to Audio Files

To listen to audio files:

1. Press the **Playback** button . The most recent photo or video clip is displayed.
2. Use the **Left/Right** navigation buttons to scroll through the files.
3. Press the **OK** button to begin playback of an audio file.
4. Press the **Left/Right** navigation buttons at any time during playback to skip to the previous/next audio file.
5. Press the **OK** button and press the **Left/Right** navigation buttons to fast-rewind/fast-forward during audio playback.
6. Press the **OK** button at any time during playback to pause.

Listening to Voice Memo

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

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

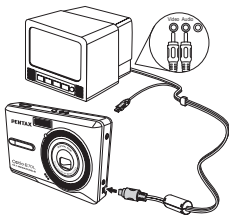
To skip to previous/next image, press the **Left/Right** navigation buttons.

Viewing Photos/Videos on your TV

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

1. Turn on the camera and make sure that the camera's video out format is set to the same as that of the TV. See "Video Out" on page 43 for more information.



2. Connect the USB/AV 3-in-1 cable to the **PC/AV** port on the camera.
3. Connect the other end of the cable to the TV's AV input sockets.
4. The LCD screen turns black and all images and video clips are displayed on the TV screen. Follow the same steps described in "Viewing Photos / Videos on the LCD Screen" on page 32.



Zooming In/Out During Playback

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



To zoom in/out on saved photos:

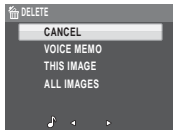
1. Press on the right side of the Zoom button **T**  to zoom in and on the left side of the Zoom button **W**  to zoom out of the photo.
2. Use the 4-way navigation buttons to pan across the image.
3. To crop an image, press the **OK** button, when zoomed in on a photo. The cropped image is saved with a new name. When zoomed out to the minimum, the LCD screen will display all photos and videos as a series of thumbnails.

Deleting Photos/Videos/Audios

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

To delete a photo/video:


1. In **Playback** mode, press the **Up/Flash**  / **Delete**  navigation button to display the **Delete** menu.
2. Press the **Up/Down** navigation buttons and the **OK** button to select from the four available options:
 - **CANCEL**: Select to cancel the action and exit to the main menu.
 - **VOICE MEMO** (only available for images with voice memos attached): Select to delete the voice memo.
 - **THIS IMAGE/VIDEO/AUDIO**: Select to delete the current image/video/audio.
 - **ALL IMAGES**: Select to delete all files.

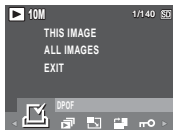


Using the Playback Menu

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

To access the playback menu:

1. Press the **Playback** button .
2. Press the **MENU** button to display the menu options. Use the **Left/Right** navigation to select the function from the menu, and press the **OK** button to enter.
3. Use the **Up/Down** navigation buttons to highlight an option and press the **OK** button to confirm.



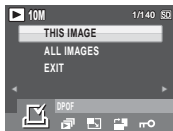
DPOF

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

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

To set DPOF:

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



Slideshow

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

To view a slideshow:

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



Resize

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

To resize a photo:

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



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

- This function only supports pictures taken with this camera
- Cropped images cannot be resized
- If there is not sufficient storage space, images cannot be resized
- If the SD/MMC card is locked, images cannot be resized
- VGA images cannot be resized

Rotate

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

To rotate an image:

1. Press the **MENU** button to select **Rotate** from the menu. Press the **OK** button to enter.
2. Press **Left/Right** navigation button to rotate the selected image.
3. Use the **Up/Down** navigation buttons to select **OK** or ↶.
 - **OK**: Confirm the selection and save the image.
 - ↶: Select to discard the changes and return to the main menu.
4. Press the **OK** button to confirm the one you needed.



Protect

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

1. Press the **MENU** button to select **Protect** from the menu and press the **OK** button to enter.
2. Use the **Up/Down** navigation buttons to select **Lock** 🔒 or **EXIT**, then press the **OK** button to confirm the one you needed.
3. **Lock** 🔒 icon displays at the top of the screen to indicate the photo/video is now locked.
4. To unlock a photo or video, perform the steps 1 and 2 again.

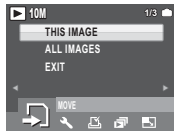


Move

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

To move an image:

1. Press the **MENU** button to select **Move** from the menu.
2. Press the **Up/Down** navigation buttons and the **OK** button to select from the three available options:
 - **THIS IMAGE**: Select to move the current image to a memory card.
 - **ALL IMAGES**: Select to move all images to a memory card.
 - **EXIT**(default): Select to exit to the main menu.





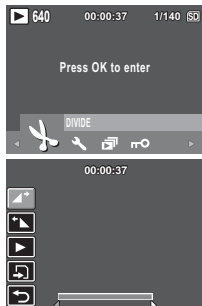
Note: The Move function is only available when you choose internal memory as the storage media and an SD card has been inserted into the camera.

Divide

The **Divide** function allows you to cut unnecessary portions of a video. This feature is useful when the memory capacity is insufficient or when users want to trim video clips.




To divide a video:

1. Press the **MENU** button to select **Divide** from the menu.
2. Press the **OK** button to enter the edit mode.
3. Use the **UP/DOWN** navigation buttons to select the portion of the video you want to delete.
 -  Beginning of the new video clip
 -  End of the new video clip
4. Press and hold the **Left/Right** navigation buttons to specify the beginning and end position of the new video clip and release at the frame you want to stop.



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5. Press the **Up/Down** navigation buttons and the **OK** button to select from the following options:

-  Select to review the trimmed video clip.
-  Select to save the trimmed video clip as a new file or overwrite the original video. Select **Exit** to discard the changes.
-  Select to return to the main menu.



Note: The Divide function is only available when a video file is selected. Video clips shorter than one second cannot be edited.

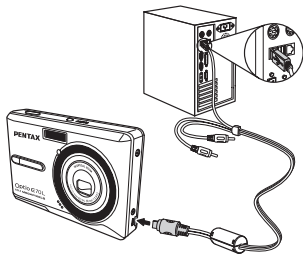
Transferring Photos/Videos to your PC

To transfer photos and videos to your PC, you need to set the USB mode as MSCD first. Follow the on-screen instructions to complete the installation:

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

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

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



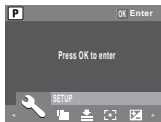
Camera Settings

The Setup Menu

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

To access the setup menu:

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



LCD Brightness

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



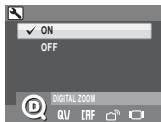
File Number

The **File No.** setting allows you to reset the file number to 0001 when the camera creates a new folder. Otherwise, the next file number will be used. Select **RESET** to reset or **CONTINUE** to set the file numbers in continuous order.




Digital Zoom

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



Quick View

The **Quick View** setting allows you to view the photo that you have just taken. Once you have taken your photo, it displays on the LCD screen. If you are not satisfied with the result, you can press the  button to delete the photo immediately. Press the **OK** button to confirm. Select **ON** (default) to enable the function or **OFF** to disable it.



Note:

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

Continuous AF

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



Camera Sound

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

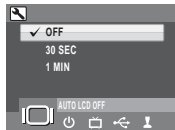
- VOLUME: OFF, LOW, NORMAL (default), HIGH
- START-UP: Sound 1 (default), Sound 2, Sound 3
- SHUTTER: Sound 1 (default), Sound 2, Sound 3
- EXIT: Select to discard the changes and return to the main menu.



Auto LCD Off

The **Auto LCD Off** setting allows you to adjust the length of time that the LCD screen will remain lit before turning off to save battery power. Three options are available:

- OFF (default)
- 30 SEC
- 1 MIN



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Auto Power Off

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

- 5 MIN (default)
- 2 MIN



Video Out

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

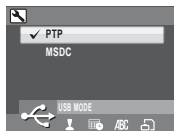
- NTSC
- PAL (default)



USB Mode

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

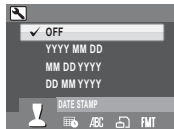
- PTP (PictBridge Print): When the camera is connected by a USB cable to a printer which supports Pictbridge, it can directly print images stored on the media. For details on PTP function, please See "PictBridge Print (PTP)" on page 45.
- MSDC (default): The camera is set up to act as a mass storage device, allowing only for transfer of files between your camera and PC.



Date Stamp

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

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



The Setup Menu

Date and Time

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

Press the **OK** button to confirm.

- Press the **Left/Right** navigation buttons to select the **Year** field.
- Press the **Up/Down** navigation buttons to adjust the **Year** value.
- In the same way, select the **Month, Day, Hour** and **Minute** fields and adjust them accordingly.



Language

The **Language** setting allows you to choose which language the OSD menu uses. Scroll down the list and select your language. Press the **OK** button to confirm. Use the **Up/Down** navigation buttons to select from the menu options.



Image Storage

The **Image Storage** setting allows you to specify where photos and video clips will be stored. The camera features Approx. 11 MB internal memory but you can also insert an SD/MMC card (See "Inserting an SD/MMC Memory Card" on page 16 for more details). Two options are available:

- **AUTO** (default): When selected, the camera chooses the storage medium automatically. If an SD/MMC card is inserted in the camera, all photos and videos are stored on the card. If an external card is not detected, all photos and videos are stored in the internal memory.
- **INTERNAL MEMORY**: All photos and videos are stored in the internal memory.



Format

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

- **MEMORY CARD**: All data on the SD/MMC will be formatted.
- **INTERNAL MEMORY**: All data in the internal memory will be formatted.



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- EXIT: Cancel format action.

Reset

The **Reset** setting allows you to reset the camera to the original factory default settings except date&time, language, and video out format. This means all modifications you have made to the camera settings will be cleared.

Once selected, the **Reset** screen displays a confirmation message. Press the **OK** button to enter the selection function, select **YES** to proceed with the **Reset** or **EXIT** (default) to cancel.



Voice Memo

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



About

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



PictBridge Print (PTP)

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

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



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



Use the **Left/Right** navigation buttons to select an option and press the **OK** button to enter.

Note:The DPOF settings have to be made to select [DPOF image].

See "DPOF Image" on page 48 for detailed information.



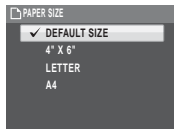
Image Storage

See "Image Storage" on page 44 for detailed information.

This Image

Print the selected image with the current setting.

1. Use the **Left/Right** navigation buttons to select **This Image** from the options and press the **OK** button to enter. Use the **Left/Right** navigation buttons to select previous/next file. Press the **Up/Down** navigation buttons to set the number of copies. After the number of copies are selected, press the **OK** button to enter the Paper Size screen.
2. Press the **Up/Down** navigation buttons again to select the paper size.
 - DEFAULT SIZE (default)
 - 4" x 6"
 - LETTER
 - A4
3. Press the **Up/Down** navigation buttons to Continue or Cancel the action.



Index Print

Use this function to print all images in index format.

1. Press the **Up/Down** navigation buttons to select the Paper size.
 - DEFAULT SIZE (default)
 - LETTER
 - A4

- Press the **Up/Down** navigation buttons again to continue or cancel the action.



DPOF Image

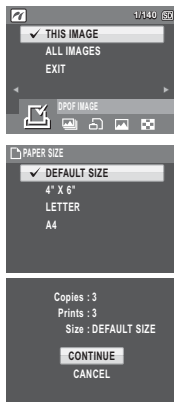
DPOF (Digital Print Order Format) allows you to specify the number of copies of a certain image that you want to print later.

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

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

To set DPOF:

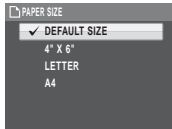
- Select **DPOF** from the menu and press **OK** to enter the submenu.
- Press the **Up/Down** navigation buttons and the **OK** button to select from available options:
 - THIS IMAGE**(default): Select to print the current image.
 - ALL IMAGES**: Select to print all images.
 - EXIT**: Select to exit to the main menu.
- Press the **Up/Down** navigation buttons again to select the paper size. Press the **OK** button to enter the Printer Confirmation screen.
 - DEFAULT SIZE** (default)
 - 4" x 6"**
 - LETTER**
 - A4**
- Press the **Up/Down** navigation buttons to continue or cancel the action.



All Images

Print all images saved in memory.

1. Use the **Left/Right** navigation buttons to select **ALL IMAGES** from the options and press the **OK** button to confirm. Press the **Up/Down** navigation buttons to set the number of copies. Then press the **OK** button to enter the Paper Size screen.
2. Press the **Up/Down** navigation buttons to set the Paper Size. Press the **OK** button to enter the Printer Confirmation Screen.
 - DEFAULT SIZE (default)
 - 4" x 6"
 - LETTER
 - A4
3. Press the **Up/Down** navigation buttons again to continue or cancel this action.



Specifications

General	Resolution / Image Type	10.1M Pixels / 1/2.3CCD
	LCD	2.4" TFT, 112K Pixels
	Dimensions	93.5(W) x 60.5(H) x 26(D)mm
	Exterior Casing	Plastic housing + Plastic top band
Optics	Aperture	Wide: F2.9, Tele: F5.2
	Optical Zoom	Up to 3x
	Digital Zoom	Up to 5x
	Focal Length	f=5.7mm (W), 17.1mm (T), (f=32mm ~ 96mm, 35 mm equivalent)
	Photo Graphic Range	Normal: 0.6 m ~ infinity Macro: 10 ~ 70 cm (Wide), 35 ~ 70 cm (Tele) Landscape: 0.1 m ~ infinity (Wide) Support seamless AF in Auto/ P-mode
	Shutter Speed	2 ~ 1/2000 Sec.
	Viewfinder	None
Camera Features	Auto Power Off / Time Out	Yes
	ISO Equivalent	Auto, ISO80/100/200/400/800/1600
	External Memory	Support SDHC/SD/MMC card from 32MB to 16GB
	Flash Modes	Auto, Off, Fill, Red-eye
	Shooting Mode	Auto, P-Mode, Sport, Landscape, Night Landscape, Portrait, Night Portrait, Museum, Snow, Sunset, Fireworks, Beach, Party, Foliage, Aquarium, Kids & Pets, Copy, Backlight, Video, Audio
	Tripod Mount	1/4" Standard
	Macro	Yes

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Image	Image File Formats	Still Image: JPEG (Exif2.2)
	Resolution	Still Image: 3648x2736, 3648x2432, 3264x2448, 2576x1932, 2048x1536, 1920x1080, 1600x1200, 640x480 Movie Mode: 640x480@30fps, 320x240@30fps
	Quality Levels	Best, Better, Good
Capture	DPOF	Version 1.1
Features	Erase Protection	Yes
	Exposure Compensation	Selectable +/-2.0 EV with 1/3 EV steps
	Sharpness	High, Normal, Low
	Color	Vivid, Color, Black&White, Sepia
	AE Metering	Matrix, Center Weighted, Spot
	Focus	Multi-Zone, Center, Selected area
	Flash Range	Wide: 0.6 ~ 3.5m@ ISO Auto, Tele: 0.6 ~ 2.1m@ ISO Auto
	Anti-Shake	Yes, High ISO
	Drive Mode	Single Mode, Burst Mode, Multi-Burst (VGA@16 shots)
	Quick Delete	Yes
	Quick View	Yes
	Self-timer	2 or 10 seconds
	Playback Magnify	Up to 6X (9 steps)
	White Balance	Auto, Sunny, Tungsten, Fluorescent, Cloudy
Video	Video Out	PAL, NTSC
	Speaker	Mono
	Movie File Format	AVI (Motion JPEG with sound)
	Movie Length	Close to 80 min. Max. file size is 2G bytes.
	Microphone	Mono
	Audio Recording	Wave format
Power	Battery	AA x 2
	Battery Life	CIPA 180 images

Connectivity	Camera Interface	USB 2.0 (high speed)
	Host Platform	Windows 2000/XP/Vista
Standards	Operating Temperature	0°C ~ 40°C
	Language	English /German /French /Italian /Spanish / Portuguese(Brazil) /Japanese /Traditional Chinese / Simplified Chinese /Russian /Arabic /Turkish/Dutch

Troubleshooting

Problem	Action
Camera does not turn on	<ul style="list-style-type: none"> • The batteries may be exhausted. Charge or replace the batteries. • The batteries are installed incorrectly. Reinsert the batteries observing the correct polarity.
Camera turns off automatically	Press the Power button again to turn on the camera.
LCD turns off automatically	Press any button to turn on the LCD when AUTO LCD Off setting(30 SEC or 1 MIN) is activated.
Empty battery icon is displayed on the LCD then camera turns off	Batteries are exhausted. Charge or replace the batteries.
LCD screen displays 'Card Requires Formatting'	Memory card format not recognized. Reformat the memory card.
LCD screen displays 'Card is Full'	Memory card is full. Replace the memory card with a new one or delete unnecessary images from the existing card.
LCD screen displays 'Card is Locked'	The card is protected by a protect switch mechanism. Move the switch to the unlock position.
Insufficient memory space to complete request	Insufficient space in memory to rotate an image or divide a video. Delete unnecessary images and videos.
No image displays on the TV screen	Incorrect TV-out type was selected. Set correct TV-out type to match your TV system.
Insufficient space on the card	Delete unnecessary images.

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



1. In the European Union

These symbols on the products, packaging and/or accompanying documents mean that used electrical and electronic equipments and batteries should not be mixed with general household waste.

Used electrical/electronic equipments and batteries must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of these products. Following the implementation by member states, private households within the EU states may return their used electrical/electronic equipments and batteries to designated collection facilities free of charge*.

In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one. *Please contact your local authority for further details.



By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other countries outside the EU

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



For Switzerland: Used electrical/electronic equipment can be returned free of charge to the dealer, even when you don't purchase a new product. Further collection facilities are listed on the home page of www.swico.ch or www.sens.ch.

Note for the batteries symbol (bottom two symbol examples): This symbol might be used in combination with a designation for the chemical element or compound in use. In this case you have to comply with the requirement set by the Directive for the chemicals involved.