Kodak

PIXPRO FZ53/X54

Digital Camera

User Manual

BC

BEFORE YOU START

Declaration of Conformity

Responsible Party: JK Imaging Ltd.

Address: JK Imaging Ltd., 17239 South Main Street, Gardena, CA 90248, USA

JK Imaging Europe, 71 Clarendon road, Watford, WD17 1DS, UK

Company website: www.kodakpixpro.com

For Customers in the USA

Tested to Comply with FCC Standards FOR HOME OR OFFICE USE

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

For Customers in Europe

CE "CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" marked cameras are intended for sales in Europe.

This symbol [crossed-out wheel bin WEEE Annex IV] indicates separate collection of electrical waste and electronic equipment in the European countries. Please do not throw the equipment into domestic refuse. Please use the return and collection systems available in your country for proper, safe disposal of this product.

Batteries: Please dispose of used batteries at designated collection centers.

Packaging: Please follow local regulations for the recycling of packaging.

About this Manual

Thank you for purchasing this KODAK PIXPRO Digital Camera. Please read this manual carefully and keep it in a safe place for future reference.

- JK Imaging Ltd. reserves all rights of this document. No part of this published manual may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form, by any means, without the prior written permission of JK Imaging Ltd..
- All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners.
- This manual provides you with instructions on how to use your new KODAK PIXPRO Digital Camera. Every effort has been made to ensure that the contents of this manual are accurate, however JK Imaging Ltd. reserves the right to make changes without notice.
- Throughout this manual, the following symbols are used to help you locate information quickly and easily:

  Indicates useful information.

- In the instructions below, the following symbols may be used throughout this manual on how to operate the camera. This is to facilitate better understanding.

  「Item properties」 : The optional properties in the camera interface are indicated by the symbol「 」.

SAFETY NOTES

Safety notes for this camera

- Do not drop the camera or allow it to hit solid objects.
- Do not attempt to disassemble or repair the camera.
- Do not use or store the camera in dusty places or on a beach to prevent dust or sand from entering the camera, causing possible damage to it.
- Do not use or store the camera in a hot environment or under direct sunlight.
- Do not use or store the camera near a powerful magnetic field, for example near a magnet or transformer.
- Avoid touching the lens of the camera.
- Do not expose the camera to direct sunlight for a long period of time.
- To prevent the camera from being damaged by moisture, do not use or store the camera in very humid environments, such as in rain or near bodies of water.
- If water accidentally comes in contact with the camera, turn the camera off, remove the battery and the memory card, and dry it within 24 hours.
- When you take the camera from a cold place to a warmer environment, condensation may occur. Please wait for a reasonable period of time before you turn it on.
- Before you remove the battery and memory card, the camera should be turned off.
- When you clean the body of the camera, do not use abrasive, alcohol-based or organic cleaner.
- Use a professional lens wiping cloth and dedicated cleaner to wipe and clean the lens.
- Download your photos and remove the memory card when you are going to store the camera for a long period of time.
- If this camera is not in use for a long time, please keep it in a dry and clean condition.
- Our company will not pay compensation for any failure of playback of pictures or videos caused by improper operation.

Safety notes for battery

- Please use a battery that is the same type as the one included.
- Please use the attached charger to charge the battery.
- If battery fluid leaks inside the camera, contact our customer service department. If battery fluid leaks onto your skin, rinse your skin with clean water and seek immediate medical attention.
- Disposal of used batteries should be carried out in accordance with the local (national or regional) regulations.
- To prevent the battery from being damaged, do not drop the battery or allow it to hit solid objects or to be scratched by the objects.
- Do not let the battery come in contact with metal objects (including coins) to avoid short circuiting, discharging, excessive heat, or possible leakage.
- Do not attempt to disassemble the battery.
- Do not expose the battery to water. Always keep the battery contacts dry.
- Do not heat the battery or throw it into a fire to avoid a possible explosion.
- Do not store the battery in a hot environment or in direct sunlight.
- If the battery overheats during charging or use, stop charging or use immediately. Turn off the product, remove the battery carefully, and wait until it cools down.
- When the camera is stored for a long period of time, remove the battery and keep it in a dry place that is not accessible to infants and children.
- In a colder environment, the performance of the battery could be noticeably reduced.
- When you install the battery, install it according to the positive and negative markings on the battery compartment. Never force it into the battery compartment.

Safety notes for memory card

- We suggest buying only well-known, name brand memory cards to ensure peak performance.
- Format the memory card using the camera before you use it or insert a new one.
- Do not drop the memory card or allow it to hit solid objects to avoid damaging it.
- Do not attempt to disassemble or repair the memory card.
- Do not expose the memory card to water. Always keep it dry.
- Do not remove the memory card when the camera is turned on. Otherwise, the memory card could be damaged.
- Do not directly edit the data on the memory card. Copy the data to your PC before you edit them.
- When the camera is stored for a long period of time, be sure to download your photos and remove the memory card. Store it in a dry environment.
- Do not modify the name of the files or folders of the memory card using your PC. Modifying the file names may cause the files to not be recognized on the camera or a possible error may occur.
- A photo taken with the camera will be stored in the folder that is automatically generated on the memory card. Do not store photos that are not taken using this camera in these folders as the pictures cannot be recognized during the playback.
- When you insert a memory card, make sure the notch of the card matches the markings on the top of the card slot.

Other Safety Notes

- Do not disconnect the power or turn the camera off during the update process. Doing so may cause incorrect data to be written and the camera may not power on later.
- Do not hang the neck strap of the camera around the neck of a child.
- When using your camera on an airplane, observe the relevant rules specified by the airline.
- Due to the limitations of manufacturing technology, the LCD may have a few dead or bright pixels. These pixels do no effect the quality or performance of the camera, photos or video.
- Do not expose the LCD to water. In a humid environment, only wipe it with a soft and dry cleaning cloth.
- If the LCD is damaged and the liquid crystal comes into contact with your skin, wipe your skin with a dry cloth immediately and rinse it with clean water. If liquid crystal comes into contact with your eyes, wash them with clean water at least for 15 minutes and seek immediate medical attention. If you accidentally swallow liquid crystal, rinse your mouth immediately and seek medical attention.

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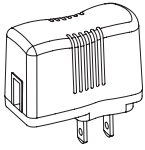
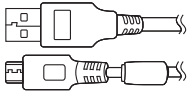
Accessories Included

Your camera box should contain the camera model you purchased along with the following accessories. If anything is missing or appears to be damaged, please contact your retailer.(The battery chargers may be a little different in shape due to the difference of countries or regions this type of cameras are sold to, so please subject to the physical product.)

Rechargeable Li-ion battery



AC adapter



Micro USB cable

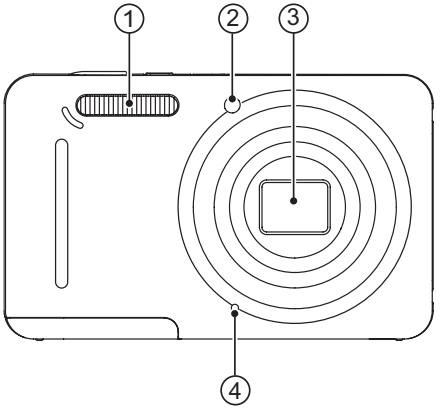
Wrist strap

Quick start guide

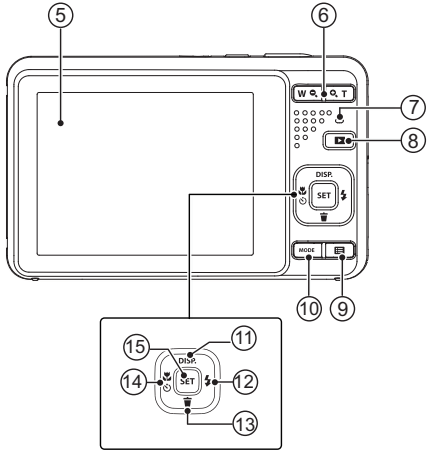
Warranty card

Service card

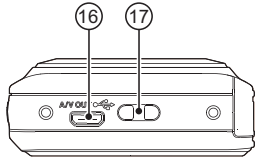
Part Names



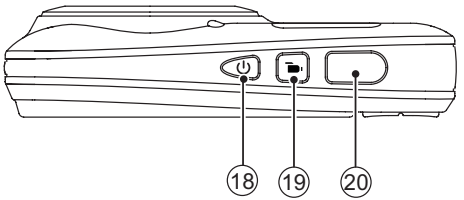
1. Flash lamp
2. AF assist beam/ Self-timer lamp
3. Lens
4. Microphone



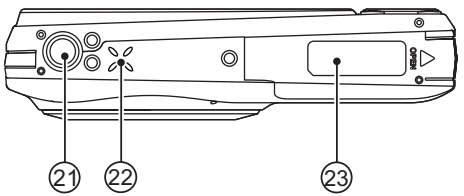
5. LCD
6. Zoom button
7. Indicator lamp
8. Playback button
9. Menu button
10. Mode button
11. Display button/Arrow button (Up)
12. Flash button/Arrow button (Right)
13. Delete button/Arrow button (Down)
14. Macro button/Self-timer button/ Arrow button (Left)
15. SET button



16. Micro USB port
17. Strap eyelet



18. Power button
19. Fast video recording button
20. Shutter button

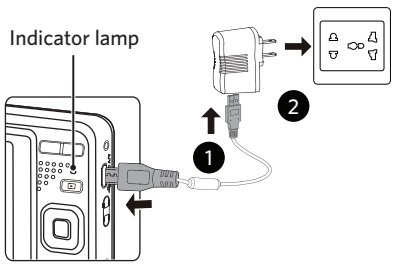


21. Tripod socket
22. Speaker
23. Battery cover

Charging Battery

Before you charge your battery, you should turn the camera off and insert the battery.

1. Connect the camera and the power charger using the supplied USB cable.
2. Insert the plug of the power charger into the wall outlet to charge the battery.

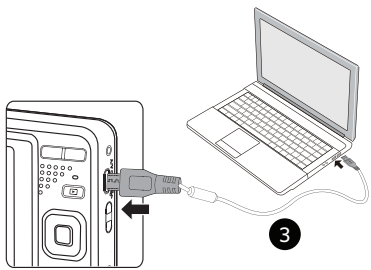


The charger is for indoor use only.

After the battery is stored for a long period of time, use the supplied power charger to charge the battery prior to use.

Charging indicator:
Steady orange : Charging
The indicator will go out once charging is finished, and the camera will be powered off automatically. To have maximum battery life, charge the battery for at least 4 hours the first time.

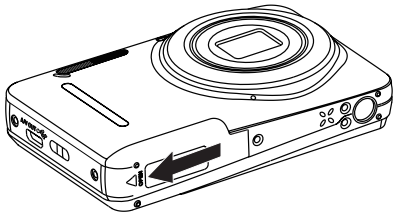
When the camera is turned off, you can also connect the camera to your PC using a USB cable to charge the battery.

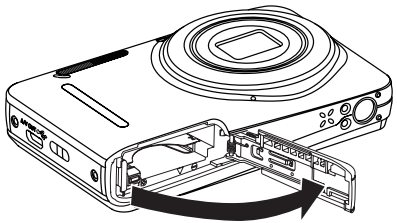


Please charge the battery indoors between 0°C and 40°C.

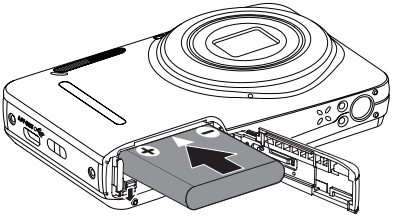
Installing Battery and Memory Card

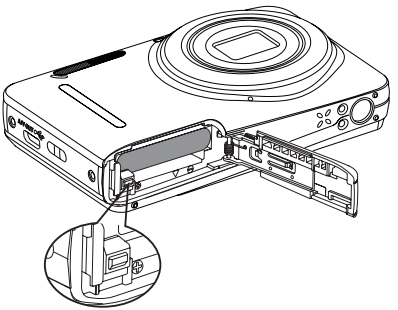
1. Open the battery cover.



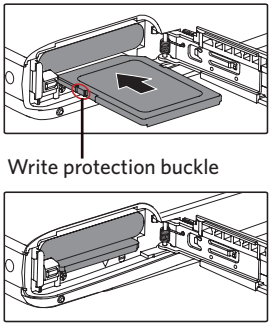


2. Insert the battery into the battery slot in the correct position as shown in the following diagram.





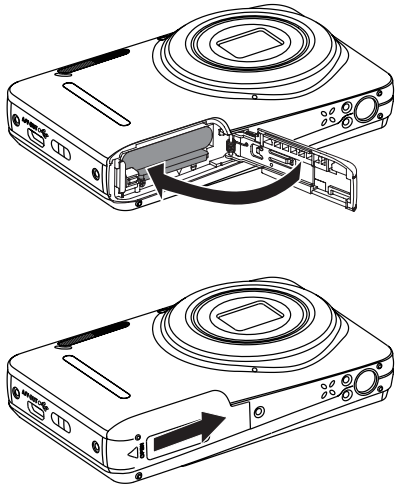
3. Insert the memory card into the memory card slot as shown in the diagram below.



The memory card (SD/SDHC) is optional and not included in all camera packaging. It needs to be purchased separately. Please use an original memory card which is Class 4 or higher and has a capacity of 4GB to 32GB.

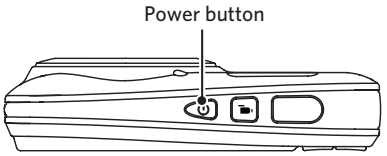
To remove your memory card, open the battery cover, gently press the memory card to eject it and remove it carefully.

4. Close the battery cover.



Turning Camera On and Off

Press the power button to turn the camera on. To turn the camera off, press the power button again.



When the power is off, press and hold the [▶] button to power on and enter playback mode.

How to take pictures

1. Hold the camera with both hands , not blocking the flash and lens by fingers.
2. Aim the camera at the object and then frame with the LCD.
3. Use the zoom button to select Tele or Wide positions to zoom in or out on your subject.
4. Press the shutter button half way to focus on the subject. When the focus frame turns green, press the shutter button completely down to take the picture.

Set your Language, Date/Time

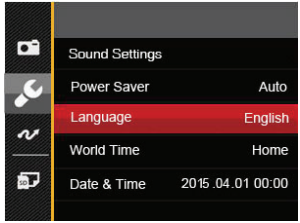
Set your Language, Date/Time after the first power-on

1. When you turn the camera on for the first time, the language selection screen appears.
2. Press the arrow buttons to select your desired language.
3. After you press the (SET) button to confirm the selection, the Date/Time settings screen appears.
4. Press the left/right arrow buttons to select the Date/Time to be adjusted: Time is displayed in YYYY.MM.DD HH:MM.
5. Press the up/down arrow buttons to adjust the value for the selected Date/Time.
6. Press the (SET) button to confirm the time settings and the snapshot screen appears.

Resetting your Language

After you set your language for the first time, follow the instructions below to reset your language.

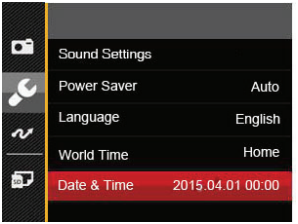
1. Press the [MENU] button, press the up/down arrow buttons to select , and press the (SET) button to enter the menu.
2. Press the up/down arrow buttons to select , and press the (SET) button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「Language」 and press the (SET) button or right arrow button to enter the menu.
4. Press the arrow buttons to select your desired language and press the (SET) button to confirm.
5. Press the [MENU] button and the snapshot screen appears.

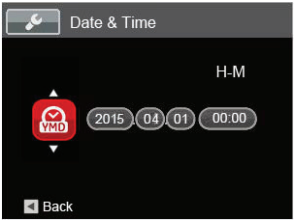


Resetting Date/Time

After you set your Date/Time for the first time, follow the instructions below to reset date and time.

1. Press the [ ] button, press the up/down arrow buttons to select [ ], and press the (SET) button to enter the menu.
2. Press the up/down arrow buttons to select [ ], and press the (SET) button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「Date & Time」 and press the (SET) button or right arrow button to enter the menu.
4. Press the left/right arrow buttons to select the Date/Time to be adjusted: Time is displayed in YYYY.MM.DD HH:MM.
5. Press the up/down arrow buttons to press the value for your selected block. After you finish your settings, press the (SET) button to confirm.
6. Press the [ ] button and the following snapshot screen appears.

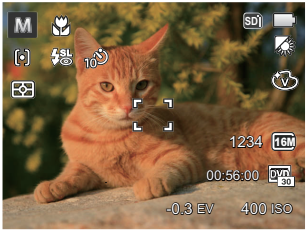




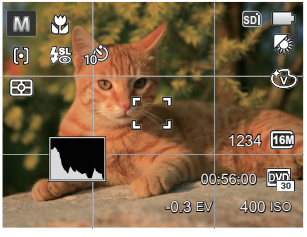
Display Setting

Press the **DISP.** button to display the settings: Classic, Full, Off.

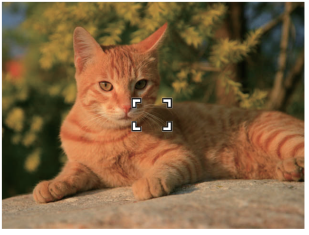
Classic: Displays the camera parameters on screen



Full: Camera parameters with Grid and Histogram

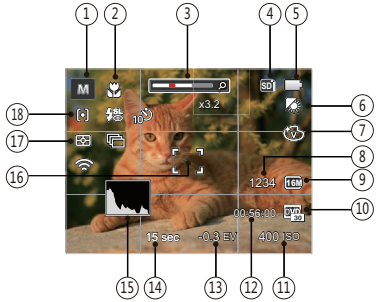


Off: Does not display any additional icons on screen



LCD Screen Display

Overview of the screen icons in photo shooting mode

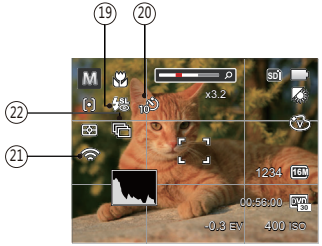


1 Shooting Mode Icons

Manual Mode	Portrait
Auto Mode	Panorama Mode
Anti-shake	Scene Mode

2 Macro Mode
3 Zoom Display
4 Memory Card/Built-in Memory
5 Battery Status
6 White Balance (Adjustable in M mode)
7 Color Effect (Adjustable in M mode)
8 Number of Remaining Shots
9 Image Size
10 Video Quality
11 ISO Value (Adjustable in M mode)
12 Remaining Recording Time
13 Exposure Compensation (EV value) (Adjustable in M mode)
14 Shutter Speed (Adjustable in M mode)
15 Histogram
16 Focus Frame
17 Expo Metering
- AiAE
- Spot
- Center

18 AF Mode
- Single-AF
- Multi-AF



19 Flash Mode

- Force Off
- Flash Auto
- Fill Flash
- Slow Sync.
- Slow Sync. + Red-Eye
- Red-Eye Reduction

20 Self-timer

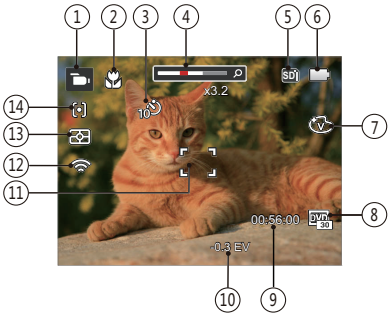
- Self-timer Off
- Self-timer 2 sec
- Self-timer 10 sec
- Self-timer Smile

21 Eye-Fi ON (with signal)

22 Continuous Shot

- Single
- Continuous Shot
- 3 Shots
- Time-Lapse (30sec/1min/5min/10min)

Overview of the screen icons in movie mode



1 Movie Mode Icons
2 Macro Mode
3 Self-timer

Self-timer Off

Self-timer 10 sec

4 Zoom Display
5 Memory Card/Built-in Memory
6 Battery Status
7 Color Effect
8 Video Quality
9 Remaining Recording Time
10 Exposure Compensation (EV value)
11 Focus Frame
12 Eye-Fi ON (with signal)
13 Expo Metering

AiAE

Spot

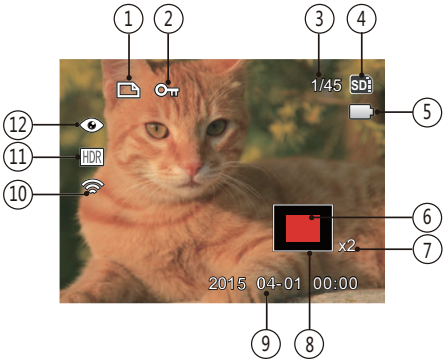
Center

14 AF Mode

For optimal video shooting, it is recommended that an SDHC memory card be used.

Optical Zoom and Digital Zoom can be adjusted(30X in total). Digital Zoom can be adjusted to 6X .

Overview of the screen icons in playback mode



1 DPOF File
2 File Protection
3 Memory space (indicating the current number of photos and total number of photos)
4 Memory Card/Built-in Memory
5 Battery Status
6 Zoom Magnification Area
7 Image Zoom Ratios
8 Image Zone
9 Shooting Date
10 Eye-Fi ON (with signal)
11 HDR
12 Red-Eye Reduction

Using the Mode Button

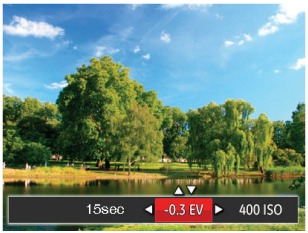
This camera provides a convenient mode button that allows you to switch easily among different modes. After pressing the mode button to enter the mode selection menu, press the left/right button to choose the selected mode. Press the (SET) button to confirm your selection. All the available modes are listed below:

Mode Name	Icon	Description
Manual Mode		Many of the camera settings can be configured manually in this mode.
Auto Mode		In this mode, the optimal conditions for taking pictures will be set based on the subject and environment. It is the most commonly used mode for taking pictures.
Anti-shake		Digital image stabilization to take clear pictures in the handheld state.
Portrait		The best setting for portrait shooting, enables AE/AF for faces.
Panorama Mode		In this mode, up to 4 frames can be stitched together to create a single panoramic photo.
Scene Mode		Choose from 21 different pre-set scene types and effects for your photos.
Movie Mode		Record videos.

Manual Mode M

When selecting manual (M) mode, you can set the EV / shutter speed manually and ISO value.

1. Press the MODE button to select manual exposure mode M , press the SET button to confirm.



2. Press the left/right arrow buttons to select an adjustment setting.
3. Press the up/down buttons to adjust the parameters.
4. Press the SET button to confirm the settings and enter the shooting screen.

Auto Mode

Auto mode is the easiest mode to take photos. While operating in this mode, the camera automatically optimizes numerous camera settings to adjust your photos and videos for the best possible results.

Follow these steps:

1. Press the MODE button to select auto mode ( ).
2. Compose your picture in the LCD and press the shutter button halfway down to focus on the subject.
3. The LCD will show a green focus frame when the subject is in focus.
4. Fully press the shutter button down to take pictures.

Anti-shake

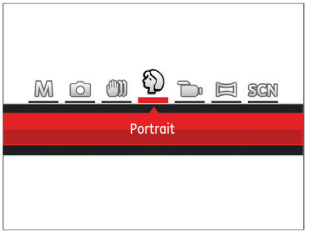
This mode can help reduce photo blur caused by hand shake, low light and slow shutter speed.

Use Anti-shake mode in dark environments or when using a slower shutter speed.

Shooting in a windy or unstable environment (such as a moving vehicle) may cause blurred images.

Portrait

In portrait mode, the camera is set to automatically adjust exposure for realistic capture of skin tones.



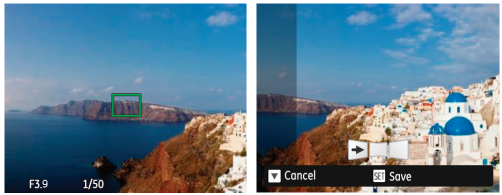
Press the mode button to select portrait mode ( ).

Panorama Mode

Panorama mode allows you to create a panoramic picture. The camera will automatically compose a panoramic picture using the individual shots that you take.

Follow these easy steps to create a panoramic picture:

1. Press the MODE button to select panorama mode ( ).
2. Press the arrow buttons to select a shooting direction. (The right direction is used as default if you do not make any choice) 2 seconds later, the camera is ready to take pictures. You can also press the SET button or half press the shutter button to be ready to take pictures.
3. Compose the first view of the panoramic picture on the LCD and press the Shutter button to capture the image.
4. After the first shot is taken, the semi-transparent image of the first shot will appear at the edge of the screen. You can use this image to compose your picture before you press the shutter button to capture and finish manual stitching.



5. If continuous pictures are less than 4 shots, press the SET button, the camera will splice the pictures automatically. Press playback button to enter playback mode to see the effect.
6. If you take 4 pictures, the camera will splice the pictures automatically. Press playback button to enter playback mode to see the effect.

During shooting, the flash, self-timer, macro modes and exposure compensation are not available. Focus adjustment is also not available at this time.

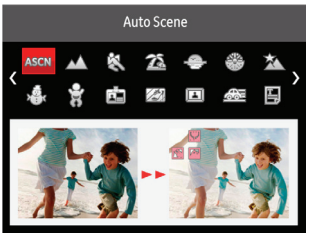
In panorama mode, up to 4 photos can be captured when the image size is set at 2M.

During panorama mode shooting, press the SET button to interrupt shooting and save the current pictures taken. Press the down button ( ) to cancel shooting and not to save the previously taken pictures.

Scene Mode (SCN)

You can select an appropriate mode from the 21 scene modes according to the type of environment you are shooting. The camera then configures the most appropriate settings automatically.

Press the MODE button to enter scene mode. The LCD will display a menu like the example below:



Press the arrow buttons to select a scene , and press the SET button to confirm.

Scene	Description
Auto Scene	Identifies the scene automatically; Person, Backlighting, Landscape, Macro, Night Scene, Night Scene Person, Auto.
Landscape	For landscapes and outdoor shots. Vivid reproduction of green and blue.
Sport	For fast-moving subjects. Capture sharp, action shots with minimal blur. This mode is not recommended for shooting indoors.
Beach	For taking pictures in areas with strong sunlight.
Sunset	For sunsets. Capture subjects in strong sunlight.
Fireworks	For fireworks at night. Suggest using tripod.
Night Landscape	For night scenes. Suggest using tripod.
Snow	For snow scenes. Reproduce natural, clear white scenes.
Children	Turns off flash automatically. Avoids disturbing subject, suitable for taking photos of children.
ID	For shooting ID size photos. (It is recommended to print using 6-inch 4R (6X4) photographic paper).
Glass	For objects behind transparent glass.
Photo Frame	For adding interesting frame effects to the photo.

Scene	Description
Panning Shot	Suitable for capturing fast moving objects to have a clear subject with a blurred background.
Text	For taking pictures of text, documents or white boards.
Fish Eye	For interesting fish eye effect.
Party	Suitable for taking indoor party pictures, even under the complicated lighting conditions.
Indoor	For indoor settings. Reduce blur and improve color accuracy.
Leaf	For plants. Capture brilliant shots of greenery and blossoms.
Museum	For museums or flash-free areas. Retain color and reduce blur.
Night Portrait	For portraits against night scenery.
Sketch	For taking photos with pencil sketch effect.

Auto Scene Mode (ASCN)

In “ASCN” scene mode, the camera can detect different environments intelligently and automatically select the best scene and photo settings for you.

“ASCN” can intelligently detect the following scenes:

Icon	Mode Name	Icon	Mode Name
	Landscape Mode		Night Landscape Mode
	Portrait Mode		Macro Mode
	Night Portrait		Auto Mode
	Backlit Portrait		

To use "ASCN":

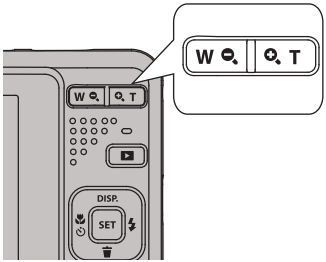
1. Press the MODE button to select “SCN” mode, then select “ASCN” function. LCD will be shown as follows:

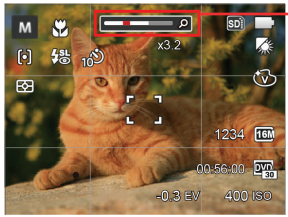
2. Hold the camera steadily and aim at the subject. The optimum scene mode will be selected automatically.
3. Press the shutter button half-way down to focus.
4. Press the shutter button all the way down to take pictures.

Mode Name	Description
Landscape Mode	For landscapes, will automatically adjust the exposure and reproduce vivid green and blue colors.
Portrait Mode	Most suitable for capturing people with focus on their faces.
Night Portrait	When you take portraits at night, or in low light conditions, will automatically adjust the exposure for people and night scenes.
Backlit Portrait	When the sun or any other light source is behind you, will automatically adjust the foreground exposure to produce the best pictures possible.
Night Landscape Mode	For night scenes, will automatically increase the ISO value to compensate for low light.
Macro Mode	The macro setting is ideal for shooting small objects or close-up photos.
Auto Mode	The camera will automatically adjusts the exposure and focus to ensure the best possible pictures.

Using the Zoom Function

Your camera is equipped with two types of zoom functions: Optical Zoom and Digital Zoom. Press the zoom button of the camera to zoom in or out on the subject while taking pictures.



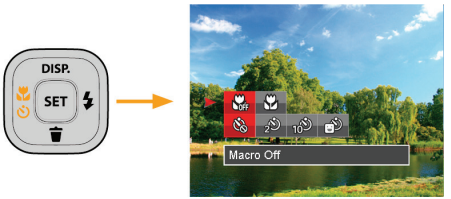


When the optical zoom reaches the threshold as digital Zoom, release and turn the zoom button to T to switch between the optical zoom and digital zoom.

Macro Mode

The macro cetting is ideal for shooting small objects or close-up photos. This mode allows you to focus on subjects very close to the camera.

1. Press the left arrow button ( ) to enter the marco menu.



2. Press the left/right arrow buttons to select the following 2 modes:

- Macro Off
  Select this option to disable Macro.
- Macro On
  Select this to focus on subjects 5cm from the lens.

3. Press the (SET) button to confirm the settings and exit the menu.

Self-timer Setting

Use this function to take pictures at pre-set intervals. The camera shutter speed can be set for 2 seconds, 10 seconds or by smile detection.

1. Press the left arrow button ( ), and then press the down button ( ) to enter the self-timer menu.

2. Press left/right arrow buttons to select the following 4 modes:

- Self-timer Off
  Disables the Self-timer.
- Self-timer 2 sec
  A single picture is shot 2 seconds after the Shutter Button is pressed.
- Self-timer 10 sec
  A single picture is shot 10 seconds after the Shutter Button is pressed.
- Self-timer Smile
  Press the shutter button and a picture will be taken immediately after a smile is detected.

3. Press the SET button to confirm the settings and exit the menu.

When enabling the self-timer, pressing the shutter or the ( ) button can disable the self-timer and return to the shooting screen while keeping the self-timer setting.

When enabling the smile detection, pressing the shutter or the SET button can disable the self-timer and return to the shooting screen without keeping the Self-timer Smile setting.

Flash Mode

The flash provides supplemental light for the scene. The flash is usually used when shooting against the light to highlight the object; it is also suitable for metering and shooting in darker scenes to improve the exposure.

1. Press the right arrow button ( ) to enter the flash settings menu.

2. Press the left/right arrow buttons to select the following 6 modes:

- Force Off
  Flash is turned off.
- Flash Auto
  Camera flash goes off automatically based on existing light conditions.
- Fill Flash
  The flash will engage with each shot even if there is enough available light to take the photo without flash.
- Slow Sync.
  This allows you to take pictures of people at night that clearly show both your subjects and the night time backdrop. The use of a tripod is recommended when shooting with this setting.
- Slow Sync.+Red-Eye
  Use this mode for slow synchrony shots with red-eye reduction.
- Red-Eye Reduction
  The camera emits a brief pre-flash before the picture is taken to reduce red-eye effects.

3. Press the SET button to confirm the settings and exit the option.

EV Setting

The EV function menu of the camera includes functions, such as EV, shutter adjustment, ISO. Using the appropriate function settings can improve your pictures.

To select the best setting for optimum photos, follow these steps:

1. Press the (SET) button to display the settings screen.
2. Press the left/right arrow buttons to select the setting options.

3. Press the up/down arrow buttons to adjust the option values.
4. Press the (SET) button to complete the setting and enter shooting mode.

Exposure Compensation

Set up to adjust the picture brightness. In the case of a very high contrast between the photographed object and the background, the brightness of the picture can be appropriately adjusted. (Adjustable in M mode)

The adjustable range of exposure value is from EV -2.0 to EV+2.0.

ISO

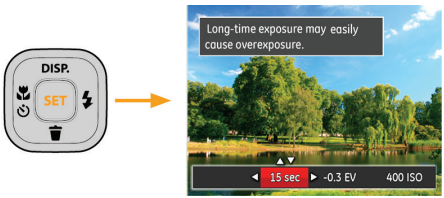
The ISO function allows you to set the sensitivity of the camera's light sensor based on the brightness of the scene. To improve the camera's sensor performance in darker environments, a higher ISO value is required. A lower ISO value is needed when shooting in brighter conditions.

Pictures taken at higher ISO settings will generally have more noise than those taken at lower ISO settings. (Adjustable in M mode)

The camera's ISO settings include: Auto, 80, 100, 200, 400, 800, 1600.

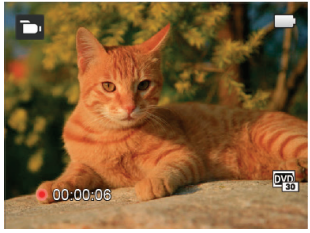
Shutter Adjustment

For shutter speed, the camera may automatically set the aperture value corresponding to the manually set shutter speed so as to obtain a most suitable exposure value. The movement of object may be shown by adjusting the shutter speed. High shutter value can make you clearly capture the movement of fast moving object while low shutter value can allow you to take a picture for fact moving object with a strong sense of movement. (Adjustable in M mode)



Using Quick Recording

In shooting mode, press the recording short cut button to begin recording video.



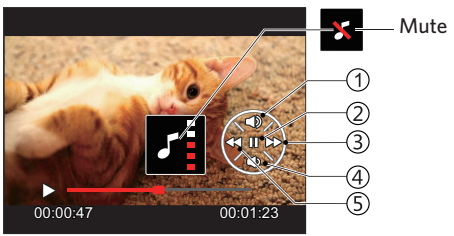
After finishing, press the recording short cut button or the Shutter Button to stop and store the video. The camera will return to shooting mode automatically.

Viewing Photos and Videos

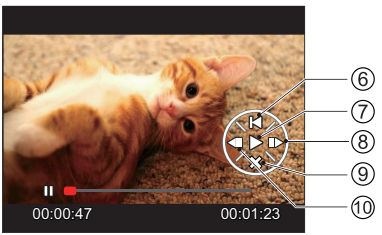
To view the captured photos and video clips on the LCD:

1. After pressing the [▶] button, the last photo or video clip taken will be displayed on the LCD.
2. Use the left/right navigation buttons to scroll through the photos or video clips stored in the built-in memory or on the memory card.
3. To play a selected video clip, press the [SET] button to enter the movie playback mode.

An operation guide appears on the screen when playing back a video. Press the appropriate buttons to enable the corresponding functions.



1	Increase volume
2	Pause
3	Fast forward
4	Decrease volume
5	Rewind

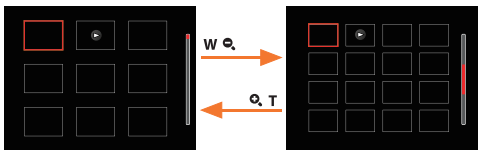


6	Back to the beginning of the video
7	Play
8	Play video forward
9	Cancel playback
10	Play video backward

Thumbnail View

When in playback mode, press the W on the zoom button to display thumbnail images of photos and videos on the screen.

1. Slide the zoom button to switch between 3x3 and 4x4 thumbnails.
2. When a 3x3 or 4x4 thumbnail is displayed, press the arrow buttons to select a picture or video clip to view.



3. Press the arrow buttons to select a picture or video clip to view and press the SET button to restore it to the original size.

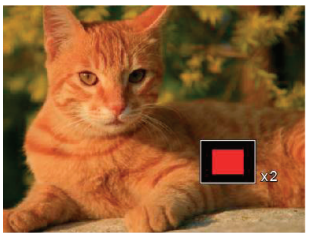
If the ▷ indicator appears on the LCD, then a movie file is currently being displayed.

Press the SET button to restore a preview icon to its original image size.

Using Zoom Playback (for still pictures only)

When playing back photos, you can also use the zoom button to zoom in on the photos 2 to 8 times.

1. Press the left/right buttons to select a picture to be zoomed in.
2. Press the T on the zoom button to zoom in.
3. The bottom right corner of the screen will display the number of times and area of the photo zooming operation.



4. Press the arrow buttons to navigate and select a part of the image to be zoomed in.
5. Press the SET button to return the image to its original scale.

Movie images cannot be magnified.

Slideshow

This setting allows you to view all the stored pictures as a slideshow.

1. Press the [▶] button to enter playback screen.
2. Press the (SET) button to enter slide option.
3. Press the left/right buttons to select slideshow playing or 「Cancel」 to return to the playback screen.

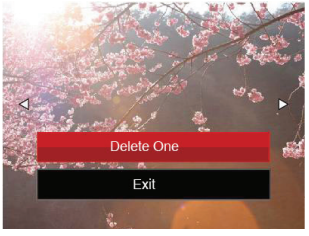
4. Press the (SET) button to confirm the setting.

Photos and Video Deletion

In playback mode, press the down arrow button ( ) to select your photos and videos.

To delete photos or videos:

1. Press the [ ] button to switch to playback mode.
2. Press the left/right arrow buttons to select the photos and videos to be deleted.
3. Press the down arrow button ( ) and the deletion screen is displayed.



4. Press the up/down arrow buttons to select 「Delete One」 or 「Exit」 and press the [SET] button to confirm.

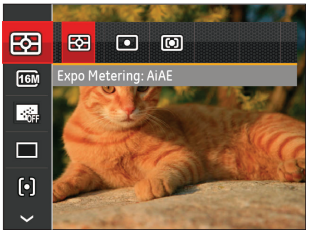
Erased photos/video clips cannot be recovered.

Please refer to page 63 for instructions on deleting more than one image at a time.

Photo Setup Menu

Mode:

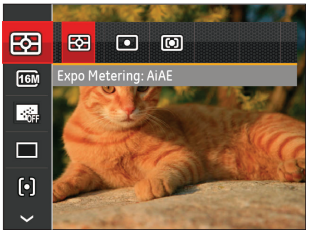
1. In photo shooting mode, press the button to enter the photo shooting menu.
2. Press the up/down arrow buttons to select the photo shooting menu to be set.
3. Press the left/right arrow buttons to select the photo shooting menu to be set and press the button to confirm.



Refer to the following pages for more details about each setting.

Expo Metering (Exposure Metering)

Use this setting to select the "target" size of the camera's field of view to be metered.

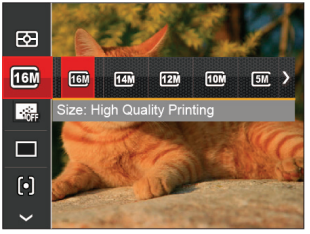


There are 3 options:

- AIAE (Artificial Intelligence AE): Automatically selects the central and peripheral metering, to calculate the reasonable value of metering by weighting.
- Spot: For metering targets a small area in the center of the camera's field of view.
- Center: For metering targets a slightly larger area in the center of the cameras field of view.

Image Size

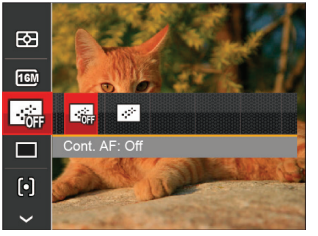
The size setting refers to the image resolution in pixels. A higher image resolution allows you to print that image in larger sizes without degrading the image quality.



The bigger the number of recorded pixels is, the better the image quality becomes. As the number of recorded pixels lessen, you will be able to record more images on a memory card.

Cont. AF

Enable the continuous AF to be able to continuously focus automatically when taking pictures.

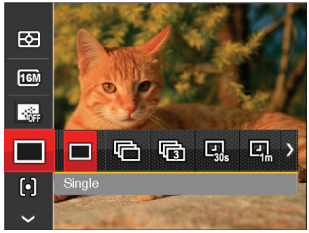


There are 2 options:

- Off
- On

Continuous Shot

Use this setting to perform continuous shooting. After entering this mode, you can shoot multiple images by continuously holding the shutter button down.



There are 7 options:

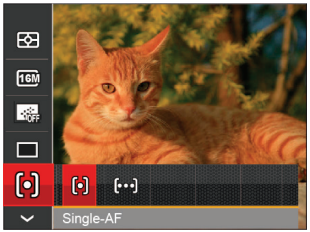
- Single
- Continuous Shot
- 3 Shots
- Time-Lapse 30sec
- Time-Lapse 1min
- Time-Lapse 5min
- Time-Lapse 10min

The flash is disabled in continuous shot mode in order to achieve quick succession of shots.

Press the shutter button to start continuous shooting.

Focus Setting

This setting allows you to select different modes for optimum focus.



There are 2 options:

- Single-AF: The focus frame appears on the center of the LCD to focus on the subject.
- Multi-AF: The camera automatically focuses the subject in a wide area to find the focus point.

White Balance Setting

The white balance setting allows you to adjust the color temperature for different lighting sources to ensure the most accurate color reproduction.

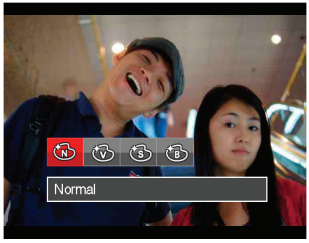
There are 7 options:

- AWB
- Daylight
- Cloudy
- Fluorescent
- Fluorescent CWF
- Incandescent
- Manual WB (Fully press the shutter button to detect the white balance value)

Color Effect

The image color setting allows you to select different color effects.

1. Press the (SET) button to select the image color setting menu.
2. Press the left/right arrow buttons to select the image color setting options.



There are 4 options:

- Normal
- Vivid
- Sepia
- Black and White

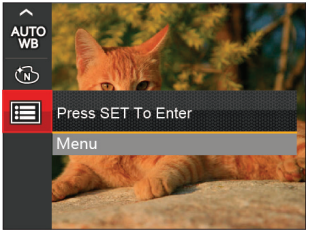
• Options in the shooting mode (O: Disponible X: Indisponible)

Options	Shooting Modes						
	M						SCN
	o	o	o	o	o	x	o
16M	o	o	x	o	x	x	o
HD	x	x	x	x	o	x	x
OFF	o	o	x	o	x	x	x
	o	o	x	o	x	x	x
	o	o	x	x	x	x	x
AUTO WB	o	x	x	x	x	x	x
	o	x	x	x	o	x	x
ASCN	x	x	x	x	x	x	o

Photo Shooting Setting Menu

Mode:

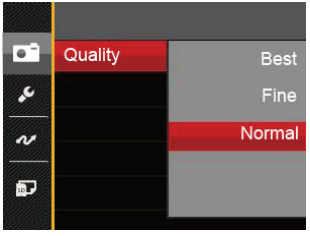
1. Press the [MENU] button in photo shooting mode and press the up/down buttons to select .



2. Press the [SET] button to enter the menu.
3. Press the up/down arrow buttons to select , and press the [SET] button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select the item to be set and press the [SET] button or right arrow button to enter the menu.
5. Press the up/down arrow buttons to select an option and press the [SET] button to confirm.

Quality

The quality setting can be used to adjust the image compression ratio.

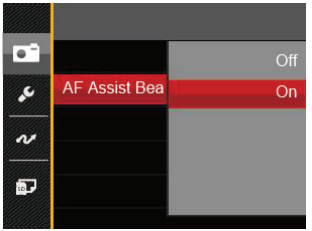


There are three options for picture quality:

- Best (16M Average File Size: 4.0MB)
- Fine (16M Average File Size: 2.5MB)
- Normal (16M Average File Size: 2.0MB)

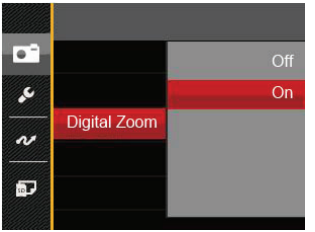
AF Assist Beam

In a darker environment, AF assist beam can be turned on for better focus.



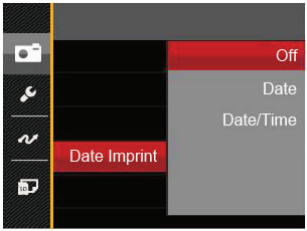
Digital Zoom

This setting is for adjusting digital zoom. If this function is disabled, only optical zoom can be used.



Date Imprint

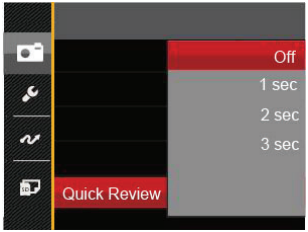
Include a Date/Time stamp on the photo image.



- Off
- Date
- Date/Time

Quick Review

This option allows quick review of the photos immediately after they are taken. Each photo is displayed on the LCD based on the selected time.



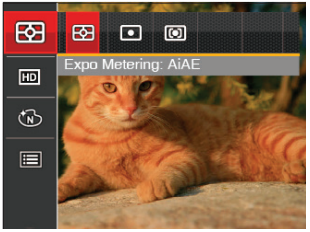
There are 4 options:

- Off
- 1 sec
- 2 sec
- 3 sec

Movie Menu

Mode:

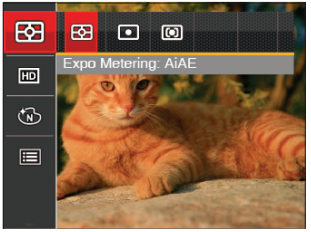
1. Press the MODE button, select the mode and press the button to enter the movie menu.



2. Press the up/down arrow buttons to select the movie menu to be set.
3. Press the left/right arrow buttons to select the movie menu to be set and press the SET button to confirm.

Expo Metering (Exposure Metering)

Use this setting to select the "target" size of the camera's field of view to be metered.

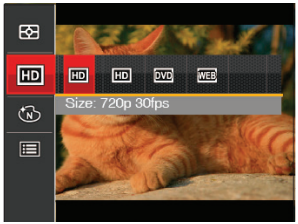


There are 3 options:

- AIAE (Artificial Intelligence AE): Automatically selects the central and peripheral metering, to calculate the reasonable value of metering by weighting.
- Spot: For metering targets a small area in the center of the camera's field of view.
- Center: For metering targets a slightly larger area in the center of the cameras field of view.

Video Quality

Set the image resolution used during video recording.



The speed requirements for reading and writing high image pixel images to SD card are as follows:

No.	Image Pixel	Frame	Recommen-dation	Recording time (4GB) About
1	1280x720 *	30	Class 4	16 minutes
2	1280x720	15	Class 4	32 minutes
3	640x480	30	Class 4	48 minutes
4	320x240	30	Class 4	201 minutes

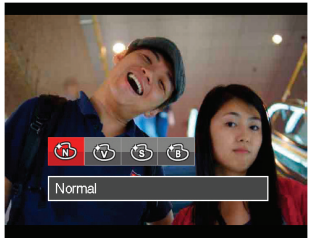
* The longest recording time is 29 minutes at one time.

When recording in higher pixel resolutions for extended periods of time, this can cause the camera to generate heat. This is not a camera malfunction.

Color Effect

The image color setting allows you to select different color effects.

1. Press the SET button to select the image color setting menu.
2. Press the left/right arrow buttons to select the image color setting options.



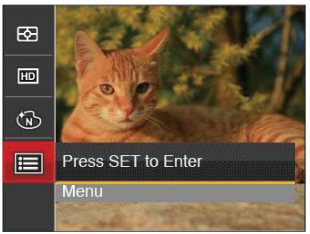
There are 4 options:

- Normal
- Vivid
- Sepia
- Black and White

Movie Setting Menu

Mode:

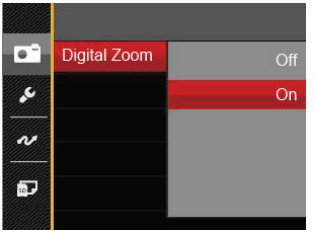
1. Press the MODE button, and select to enter the video recording screen.
2. Press the button, press the up/down arrow buttons to select , and press the SET button to enter the menu.



3. Press up/down arrow buttons to select , and press the SET button or right arrow button to enter the menu.
4. Select the items to be set and press the SET button or the right arrow button to enter the menu.
5. Press the up/down arrow buttons to select an option and press the SET button to confirm.

Digital Zoom

This setting is for adjusting digital zoom. If this function is disabled, only optical zoom can be used.



Playback Menu

Mode: ▶

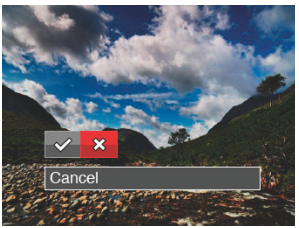
1. Press the [▶] button to display the playback screen and press the [MENU] button to enter the menu.
2. Press the up/down arrow buttons to select the playback to be set and press the [SET] button to enter.
3. Press the left/right arrow buttons to select an option and press the [SET] button to confirm.

Refer to the following pages for more details about each setting.

HDR

With the HDR function, pictures that are overexposed may be corrected to optimize the highlights and lowlights captured to more accurately represent the actual scene.

1. In playback mode, press the left /right arrow buttons to select the photos to be edited.
2. Press the [MENU] button, select the [HDR] settings, and press the [SET] button to display the settings screen.
3. Press the left/right buttons to select whether HDR is used.



✓ : HDR

✗ : Cancel

4. After using the HDR function, the image will be saved as a new file and the original file is still stored in the memory.

Red-Eye Reduction

You can use this setting to reduce the Red-Eye of the picture.

1. In playback mode, press the left /right arrow buttons to select the photos to be edited.
2. Press the [ ] button, select the settings, and press the [SET] button to display the settings screen.
3. Press the left/right arrow buttons to select the corresponding menu or 「Cancel」 to return to the playback screen.

: Red-Eye Reduction

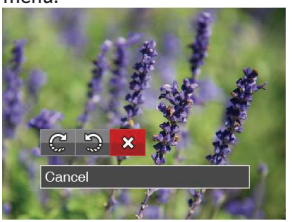
: Cancel

4. Press the [SET] button to confirm the setting.

Rotate

You can use this setting to change the orientation of the picture.

1. In playback mode, press the left /right arrow buttons to select the photos to be edited.
2. Press the [ ] button, select the settings, and press the [SET] button to display the settings screen.
3. Press the left/right arrow buttons to select the rotation direction or 「Cancel」 to return to the playback menu.



: Turn Right

: Turn Left

: Cancel

4. Press the [SET] button to confirm the setting.

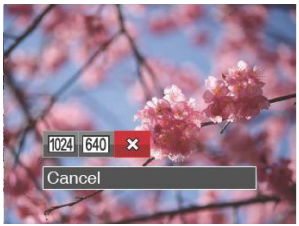
Videos and panoramic pictures cannot be rotated.

The rotated picture file will replace the original photo.

Resize

This setting allows you to resize a picture to a particular resolution and saves it as a new picture.

1. In playback mode, press the left /right arrow buttons to select the photos to be edited.
2. Press the [ ] button, select the settings and press the [SET] button to display the settings screen.
3. Press the left/right arrow buttons to select 「1024X768」 or 「640X480」 or select 「Cancel」 to return to the playback menu.

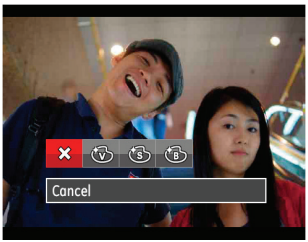


4. Press the [SET] button to confirm the setting.

Color

This setting allows you to change the picture color effect. The file is saved as a new photo and stored in memory together with the original photo.

1. In playback mode, press the left /right arrow buttons to select the photos to be edited.
2. Press the [ ] button, select the settings, and press the [SET] button to display the settings screen.
3. Press the left/right arrow buttons to select the corresponding menu or 「Cancel」 to return to the playback screen.



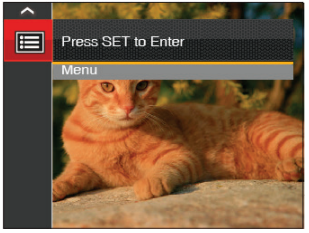
4. Press the [SET] button to confirm the setting.

: Cancel
: Sepia
: Vivid
: Black and White

Playback Setting Menu

Mode: ▶

1. Press the ▶ button to show the playback screen, press the ☰ button, and press the up/down arrow buttons to select ☰.
2. Press the SET button to enter the menu.

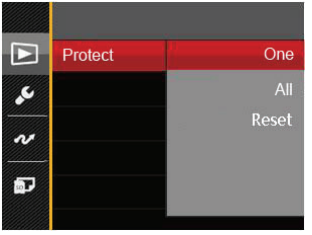


3. Press the up/down arrow buttons to select ▶, and press the SET button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select the item to be set and press the SET button or right arrow button to enter the menu.
5. Press the up/down arrow buttons to select an option and press the SET button to confirm.

Refer to the following pages for more details about each setting.

Protect

To prevent any pictures or videos from being accidentally erased, use this setting to lock one or all of the files.



To lock or unlock the photo and video files:

1. Press the up/down arrow buttons to select 「Protect」 and press the SET button or right arrow button to enter the sub-menu.

2. Press the up/down arrow buttons to select the sub-menu and press the (SET) button or right arrow button to show the settings screen.

   There are 3 sub menus available:

   • One: Lock the selected photo or video if they are unprotected; unlock the selected photo or video if they are protected.

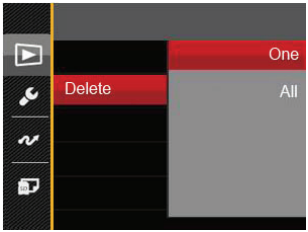
   • All: Lock all photos or videos.

   • Reset: Cancel all locked photos or videos.

3. Press the up/down arrow buttons to select an option and press the (SET) button to confirm.

Delete

You can delete one or all photo/video files.



To delete photo or video files:

1. Press the up/down arrow buttons to select 「Delete」 and press the (SET) button or right arrow button to enter the submenu.
2. Press the up/down arrow buttons to select the submenu and press the (SET) button or right arrow button to show the settings screen.

   There are 2 sub menus available:

   • One: Delete one photo or video.

   • All: Delete all photos or videos.

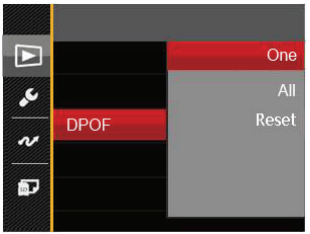
3. Press the up/down arrow buttons to select an option and press the (SET) button to confirm.

The " " indicator means a file is protected. File protection must be removed first before a file can be deleted.

Deleting files will cause DPOF settings to be reset.

DPOF (Digital Print Order Format)

The DPOF feature allows you to compile and select a group of pictures that you would like to print and will save your selection on the memory card so that you can use the memory card to print without having to individually specify the photos you want to print.

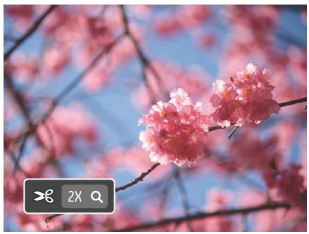


The printer that supports DPOF is needed for printing.

Trim

The Trim setting allows you to crop photos and save them as new pictures.

1. Press the up/down arrow buttons to select 「Trim」 and press the (SET) button or right arrow button to enter the menu.
2. Select 「Yes」 to confirm trim. Select a part to be trimmed using the zoom button and arrow buttons to trim a photo.



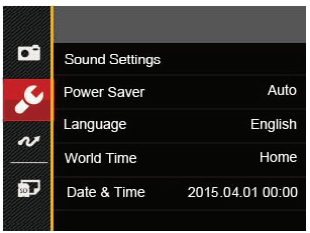
3. Press the (SET) button and the 「Save change?」 prompt appears. Select 「✓」 to change and save the picture. Select 「✗」 to cancel changes and return to the trim prompt screen.

The image cannot be clipped/trimmed again once it has been clipped to 640X480.

Setup Menu

Mode :

1. Press the [MENU] button in any mode and press the up/down buttons to select .
2. Press the [SET] button to enter the menu.
3. Press the up/down arrow buttons to select , and press the [SET] button or right arrow button to enter the menu.



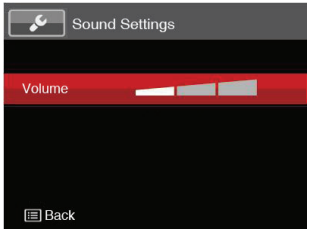
4. Press the up/down arrow buttons to select the item to be set and press the [SET] button or right arrow button to enter the menu.
5. Press the up/down arrow buttons to select an option and press the [SET] button to confirm.

Refer to the following pages for more details about each setting.

Sound Settings

To change this setting:

1. Select 「Sound Settings」 in the basic settings menu. Press the (SET) button or right arrow button to enter the menu.
2. Press the left/right arrow buttons to select an option.

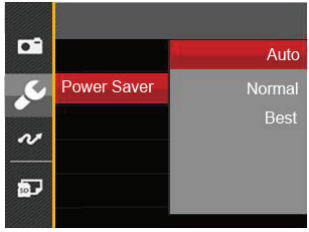


3. Press the (SET) button to confirm.

Power Saver

This setting allows you to save power and get the maximum possible running time for your camera's batteries. Follow the steps below to turn the LCD and camera off automatically after a consecutive period of inactivity.

1. Select 「Power Saver」 in the basic settings menu. Press the (SET) button or right arrow button to enter the menu.
2. Press the up/down arrow buttons to select an option.



3. Press the (SET) button to confirm.

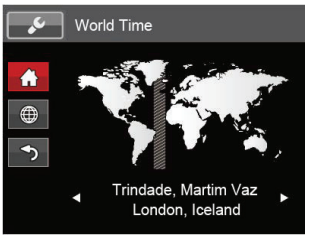
Language

Refer to the “Resetting your language” section on page 19.

World Time

The zone setting is a useful function for your overseas trips. This feature enables you to display the local time on the LCD while you are abroad.

1. Select 「World Time」 in the basic settings menu. The world time screen appears.
2. Press the up/down arrow buttons to select the departure place ( ) and destination ( ) fields.
3. Press the left/right arrow buttons to select a city located in the same time zone as that of the field. Press the (SET) button to confirm settings.



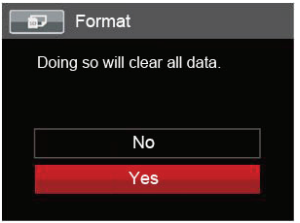
Date & Time

Refer to the “Resetting Date/Time” section on page 20.

Format

Please note: formatting enables you to delete all contents in the memory card and built-in memory, including protected photo and movie files.
To use this setting:

1. Press the [ ] button, press the up/down arrow buttons to select and press the (SET) button to enter the menu.
2. Press the up/down arrow buttons to select and press the (SET) button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「Format」 and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the (SET) button to confirm.



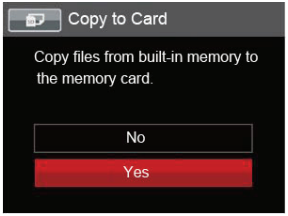
5. If you select 「Yes」 the camera formats its memory.

If there is no memory card in the camera, the built-in memory will be formatted; if there is a memory card, it will be formatted only.

Copy to Card

Use this setting to copy the files stored in the built-in memory to a memory card.

1. Press the [ ] button, press the up/down arrow buttons to select and press the (SET) button to enter the menu.
2. Press the up/down arrow buttons to select and press the (SET) button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「Copy to Card」 and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the (SET) button to confirm.

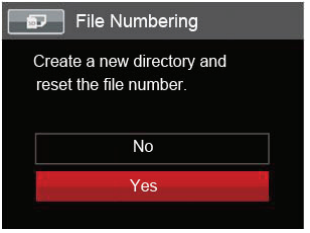


If there is no card available in the camera, this function will not be displayed.

File Numbering

After you take a picture or video clip, the camera will save it with a sequential number. You can use this to reset the file numbering to 1.

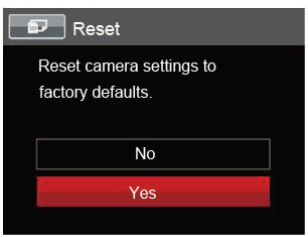
1. Press the [ ] button, press the up/down arrow buttons to select and press the (SET) button to enter the menu.
2. Press the up/down arrow buttons to select and press the (SET) button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「File Numbering」 and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the (SET) button to confirm.



Reset

Use this setting to restore the camera to its original factory default settings.

1. Press the [MENU] button, press the up/down arrow buttons to select [MENU] and press the [SET] button to enter the menu.
2. Press the up/down arrow buttons to select [SD] and press the [SET] button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「Reset」 and press the [SET] button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the [SET] button to confirm.



FW Version

Use this setting to view the current camera firmware version.

1. Press the [MENU] button, press the up/down arrow buttons to select [MENU] and press the [SET] button to enter the menu.
2. Press the up/down arrow buttons to select [SD] and press the [SET] button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「FW Version」 and press the [SET] button or right arrow button to enter the menu.

4. When there is a new firmware version in the memory card, select 「Yes」 to update.

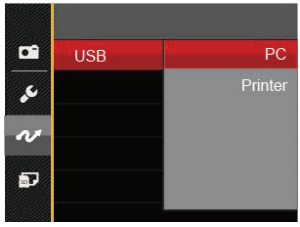
Connecting to a Computer

You can use a USB cable to connect the camera and copy (transmit) photos to a computer, printer or other device.

Setting the USB Mode

The camera's USB port can be set to connect with either a computer or a printer. The following steps will allow you to ensure that the camera is correctly configured to connect with a PC.

1. Press the [MENU] button, press the up/down arrow buttons to select [MENU] and press the [SET] button to enter the menu.
2. Press the up/down arrow buttons to select [USB] and press the [SET] button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「USB」 and press the [SET] button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「PC」 and press the [SET] button to confirm.



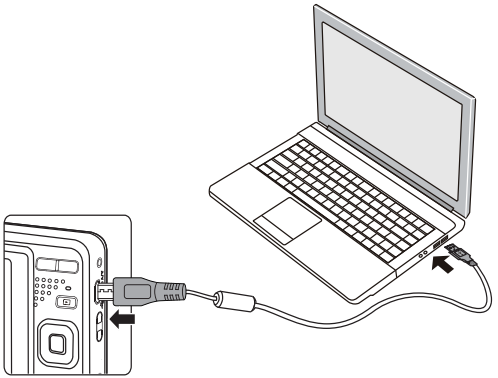
Transferring files to your computer

The computer will automatically detect the camera as a removable drive. Double-click the My computer icon on the desktop to locate the removable drive and to copy folders and files in the drive to a directory on your PC as you would copy any typical folder or file.

Follow the steps below to connect the camera to a computer.

1. Make sure both the camera and computer are turned on.
2. Connect one end of the supplied USB cable to the USB/AV port on your camera.

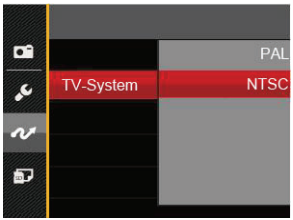
3. Connect the other end of the cable to an available USB port on your computer.
4. After the transmission is complete, disconnect the USB cable according to the instructions specifying how to safely remove USB devices.



Video System

You can use the AV cable (which should be purchased separately) to connect the camera and the television for realizing the video output. Connect one end of the AV cable to AV port of the camera, connect the other end to AV-OUT port of the television. Adjust the format of the video output system according to your requirements, and the steps are as follows:

1. Press the [MENU] button, press the up/down arrow buttons to select [MENU] and press the [SET] button to enter the menu.
2. Press the up/down arrow buttons to select [SETUP] and press the [SET] button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select「TV-System」and press the [SET] button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「NTSC」or「PAL」and press the [SET] button to confirm.



NTSC: English, Chinese (Traditional), Japanese, French, Korean, Russian, Vietnamese, Greek, Hungarian

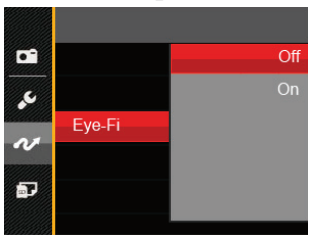
PAL: German, Spanish, Italian, Chinese (Simplified), Portuguese, Swedish, Danish, Finnish, Indonesia, Norwegian, Dutch, Turkish, Polish, Thai, Croatian, Czech, Arabic, Hindi

The video output system would change accordingly based upon the changes of the selected language.

Set Eye-Fi SD Card Connection Mode

This camera supports wireless connection of an Eye-Fi SD Card. Enable Eye-Fi connection by following below steps.

1. Press the [MENU] button, press the up/down arrow buttons to select [MENU] and press the [SET] button to enter the menu.
2. Press the up/down arrow buttons to select [Wi-Fi] and press the [SET] button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「Eye-Fi」 and press the [SET] button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「On」 or 「Off」 and press the [SET] button to confirm.



If the Eye-Fi card is not available in the camera, this feature is not displayed.

Connecting to a PictBridge Compatible Printer

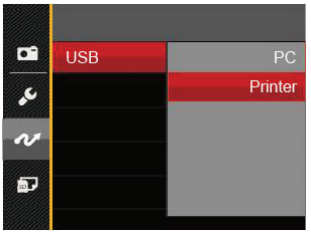
PictBridge technology allows printing of the photos saved in the memory card by the printer.

To find out if a printer is PictBridge compatible, simply look for the PictBridge logo on the packaging or check the owner's manual for specifications. With the PictBridge function on your camera, you can print the captured photos directly to a PictBridge compatible printer using the supplied USB cable, without the need for a PC.

Setting the USB Mode

The camera's USB port can be set to connect with either a PC or a Printer, the following steps will ensure that the camera is correctly configured to connect with a Printer.

1. Press the [ ] button, press the up/down arrow buttons to select and press the (SET) button to enter the menu.
2. Press the up/down arrow buttons to select and press the (SET) button or right arrow button to enter the menu.
3. Press the up/down arrow buttons to select 「USB」 and press the (SET) button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Printer」 and press the (SET) button to confirm.

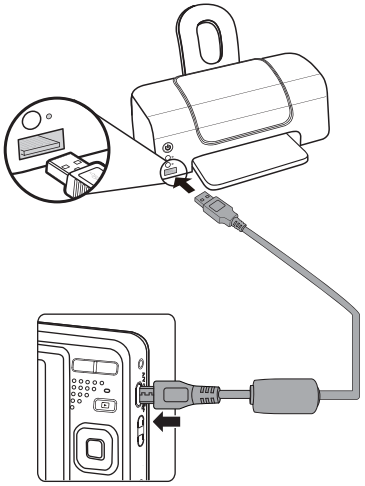


After the camera is reset, it will switch to PC mode automatically from USB mode.

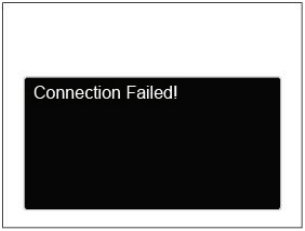
See "Using the PictBridge Menu" section on page 76.

Connecting to your Printer

1. Make sure both the camera and printer are turned on.
2. Connect one end of the supplied USB cable to the USB port on your camera.
3. Connect the other end of the cable to the USB port on the printer.



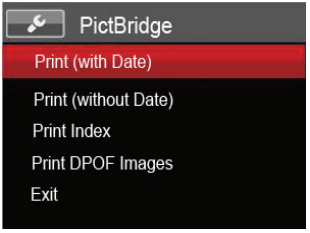
If the camera is not connected to a PictBridge compatible printer, the following error message will appear on the LCD.



The error message above will also appear if the USB mode is set incorrectly, in which case you should disconnect the USB cable, check the USB mode settings, ensure that the Printer is turned on, and then try connecting the USB cable again.

Using the PictBridge Menu

After setting the USB mode to Printer, the **PictBridge** menu will appear.



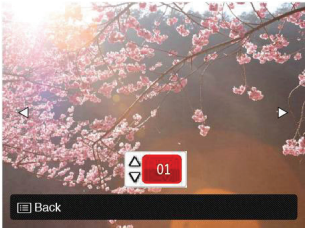
Press the up/down arrow buttons to select a menu item and press the (SET) button or right arrow button to enter the item.

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

Print (with Date)

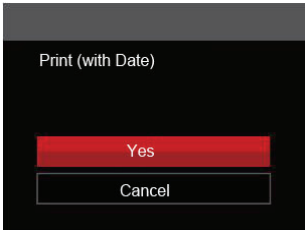
If you have set the date and time on your camera, the date and time will be recorded and saved with each photo you take.

1. In the PictBridge menu, select 「Print (with Date)」 and the screen as shown below appears.



2. Press the left/right arrow buttons to select a photo to be printed.

3. Press the up/down arrow buttons to select the number of copies for the currently displayed photo.
4. Press the (SET) button and the following screen will appear.

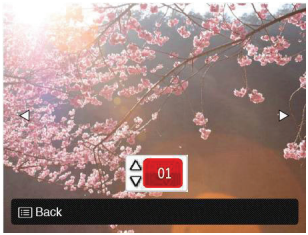


5. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

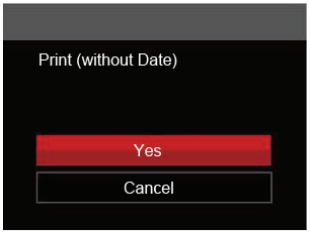
Print (without Date)

Use this setting to print the photos without dates on them.

1. In the PictBridge menu, select 「Print (without Date)」 and the screen as shown below appears.



2. Press the left/right arrow button to select a photo to be printed.
3. Press the up/down arrow buttons to select the number of copies for the currently displayed photo.
4. Press the (SET) button and the following screen will appear.

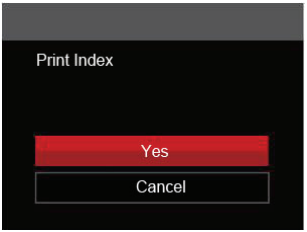


5. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

Print Index

You can print all photos in the camera via this function.

1. In the PictBridge menu, select 「Print Index」 and the screen as shown below appears.

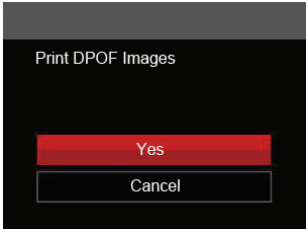


2. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

Print DPOF Images

To use DPOF printing, you must select your photos for printing using the DPOF settings beforehand. See "**DPOF**" section on page 64.

1. In the PictBridge menu, select 「Print DPOF Images」 and the screen as shown below appears.



2. Select 「Yes」 and press the (SET) button to confirm; select 「Cancel」 to cancel printing.

Exit

Select 「Exit」 to exit the PictBridge menu. At this time, the message 「Remove USB Cable!」 appears on the screen.

Disconnect the USB cable from the camera and printer.

Specifications

Design and specifications are subject to change without notice.

Image Sensor	Type	1/2.3"CCD
	Effective Pixels	16.15 Megapixels
	Total Pixels	16.44 Megapixels
Lens	Focal Length	5.1mm (Wide) — 25.5mm (Tele)
	35mm film equivalent	28mm (Wide) — 140mm (Tele)
	F number	F3.9 (Wide) — F6.3 (Tele)
	Lens Construction	8 groups 8 elements
	Optical Zoom	5x
	Focusing Range	Normal: (Wide) 60cm ~ ∞ (Tele) 100cm ~ ∞ Macro: 5cm ~ ∞ (Wide Only)
Autofocus System		TTL Autofocus
Anti-Handshake		Digital Image Stabilization
Digital Zoom		6x Digital Zoom (Combined Zoom: 30x)

Number of Recording Pixels	Still Image	(4:3) 16MP: 4608×3456 10MP: 3648×2736 5MP: 2592×1944 3MP: 2048×1536 0.3MP: 640×480	(3:2) 14MP: 4608×3072	(16:9) 12MP: 4608×2592 2MP: 1920×1080
	Movie	1280×720 (30fps), 1280×720 (15fps), 640x480 30fps, 320x240 30fps		
Image Compression		Best, Fine, Normal		
DCF, DPOF (Ver1.1) Support		Yes		
File Format	Still Image	Exif 2.3 (JPEG)		
	Movie	Movie Format: MOV (Motion JPEG), Audio: G.711 [Monaural]		
Shooting Modes		Manual Mode, Auto Mode, Anti-shake, Portrait, Movie Mode, Panorama Mode, Scene Mode		
Scene Mode		Auto Scene, Landscape, Sport, Beach, Sunset, Fireworks, Night Landscape, Snow, Children, ID, Glass, Photo Frame, Panning Shot, Text, Fish eye, Party, Indoor, Leaf, Museum, Night Portrait, Sketch		
Detection Features		Face, Smile, Blink		
Red-Eye Removal		Yes		
HDR		Yes(Post-Processing)		

Panorama	Up to 180°(Horizontal)
LCD Display	2.7inch (230k Pixels)
ISO Sensitivity	Auto, ISO80/100/200/400/800/1600
AF Method	Single AF, Multi-AF (TTL 9-point), Face-Detection
Exposure Metering Method	Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE
Exposure Control Method	Program AE (AE-Lock Available)
Exposure Compensation	±2EV in 1/3 Step Increments
Shutter Speed	1/2000 ~ 4 Seconds (Manual: 30 Seconds)
Continuous Shooting	Yes
Playback Modes	Single Photo, Index (9/16 Thumbnails), Slide Show
	Zoom (Approx. x2~x8)
White Balance Control	Auto (AWB), Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual WB

Flash	Flash Method	Internal
	Flash Modes	Force Off, Flash Auto, Fill Flash, Slow Sync., Slow Sync.+Red-Eye , Red-Eye Reduction
Recording Media		Internal Memory: Approx. 8MB
		SD/SDHC Card (Up to 32GB Support) [MMC Card not supported]
PictBridge, ExifPrint Support		Yes
Multi-Language Support		27 Languages
Jacks		AV-OUT/USB 2.0 (Micro 5 pin USB)
Eye-Fi Support		Yes
Power		Rechargeable Li-ion Battery LB-012, 3.7V 700mAh, In-Camera Charging
Shooting Capability (Battery Performance)		Approx. 200 Shots (Based on CIPA Standards)
Operation Environment		Temperature: 0 ~ 40°C, Humidity: 0 ~ 90%
Dimensions (W×H×D)		Approx. 91.5×56.5×22.6mm (Based on CIPA Standards)
Weight		Approx. 106g (Body Only)

Prompts and Warning Messages

Message	Description	Action
Warning! Battery exhausted.	The camera battery is used up. It is a warning indicating that the camera is going to shut down.	Replace with new batteries. The camera will shut down in 2 seconds.
Lens obstruction, Re-start Camera.	The lens is jammed or some foreign object is preventing the lens from functioning properly.	Turn off the camera and restart it to reset the lens.
Suggest using tripod.	When continuous exposure mode (Sunset, Fireworks, Night Portrait , Night Landscape) is enabled , this prompt message is displayed when the photo shooting screen is displayed for the first time.	The message will disappear after 2 seconds
Battery temperature is too high.	The battery temperature reaches 53.5°C.	Let the battery cool before attempting to use the camera again. The message will disappear after 2 seconds
Built-in memory error!	An error occurs in internal memory.	Try shutting down the camera and turning it on again. The message will disappear after 2 seconds

Message	Description	Action
Warning! Do not turn off your camera during update!	The message appears during the firmware update process.	The message disappears after the camera update and restart.
Connection Failed!	Failure to connect to your PC, printer, TV .	Remove USB cable and retry connection
Please update firmware after the battery is fully charged!	The firmware cannot be updated when power is insufficient.	A message appears to prompt updating after full charging and returning to the update screen.
Write Protect !	The memory card is locked.	Remove memory card and switch the lever on the side of card to UNLOCK. The message will disappear after 2 seconds.
Card Full !	Indicates that the memory card is full.	Replace memory card with another that has available memory. The message will disappear after 2 seconds.

Message	Description	Action
Memory Full !	Indicates that the camera memory is full.	It disappears after 2 seconds.
Card Error !	During power-on, the memory card cannot be recognized or a read/write error occurs.	Format the memory card. WARNING: Formatting the memory card will erase all data on the card. Copy the data from the memory card to another storage, such as a computer. Otherwise, all data will be erased after the format. The message will disappear after 2 seconds.
Card is not formatted.	When an error occurs in the memory card, the message "Not Formatted" appears.	Format the memory card. WARNING: Formatting the memory card will erase all data on the card. Copy the data from the memory card to another storage, such as a computer. Otherwise, all data will be erased after the format.
Slow access	When a memory card lower than Class 4 is used to record a HD movie, the writing speed will be slower and recording will not continue.	Replace the memory card with a higher Class over 4. The message will disappear after 2 seconds.
Cannot write to SD card.	The photo shooting or video recording has been interrupted so recording cannot continue.	Turn off the camera. Then unload and reload the memory card and turn on the camera to retry. Also check if memory card is full or in a locked position.
No Red-Eye Detected!	Red eyes have not been detected in the image.	The message will disappear after 2 seconds.

Message	Description	Action
This image cannot be edited.	The file format does not support editing or the edited file cannot be edited again.	The message will disappear after 2 seconds.
Exceeded maximum folder number.	This indicates that the memory card exceeded the maximum number of folders (999). This could cause a long read time during the camera's power up.	Copy the data to your PC, format the memory card using the camera.
Too many pictures for fast processing.	During the playback by date, the images exceed specifications so that it is not possible to play by date.	The message disappears after 2 seconds and the camera returns to the normal playback mode.
Unable to recognize files.	The format of the file to be viewed is not supported or the file is corrupted so it cannot be properly read.	This image message disappears only after the file is deleted.
No Picture!	When you press the play button, no image files exist in the camera or memory card.	The message disappears 2 seconds later to return to the photo shooting screen.
Protected! Undeletable!	The file is protected. The message appears when you delete it.	Remove memory card and switch the lever on the side of card to UNLOCK. Place back into the camera and try again. The message will disappear after 2 seconds.

Troubleshooting

Problem	Possible causes	Solution
Camera does not turn on	■ The battery has been depleted. ■ The battery is not inserted correctly.	■ Recharge the battery. ■ Correctly reinstall the battery.
Camera turns off suddenly during operation	■ The batteries have been depleted.	■ Recharge the battery.
The picture is blurred	■ Camera shakes while taking a picture.	■ Turn on OIS feature.
Images and video files cannot be saved	■ The memory card is full. ■ The memory card is locked.	■ Use another memory card or delete unnecessary files. ■ Unlock the memory card.
Images will not print from the connected printer	■ The camera is not connected to the printer correctly. ■ The printer is not PictBridge compatible. ■ The printer is out of paper or ink. ■ The printer paper is jammed.	■ Check the connection between the camera and printer. ■ Use a PictBridge compatible printer. ■ Load paper into the printer or replace the ink cartridge in the printer. ■ Remove the jammed paper.

Problem	Possible Causes	Solution
Saving data to memory card is slow	■ Using a memory card below Class 4 may result in slower recording times.	■ Use a memory card with write Class 4 or higher than 4 to improve performance.
Cannot write to the memory card	■ The memory card has been locked.	■ Release the write lock of the memory card or replace with another card.
Too many movies to process	■ The number of pictures or folders in the memory card exceed the specifications, so the playback can not be displayed.	■ Delete unwanted files.
The flash flashes on the LCD screen.	■ Current shooting environment requires flash.	■ Turn on flash.

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