

Kodak

PIXPRO AZ522

Digital Camera

User Manual



BEFORE YOU START

Declaration of Conformity

Responsible Party: JK Imaging Ltd.

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For Customers in the U.S.A.

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" 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.

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.



Indicates precautions are to be taken while operating the camera.

SAFETY NOTES

Safety notes for this camera

- Do not drop the camera or allow it to hit solid objects.
- Do not attempt to disassemble the camera.
- 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.
- 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 time.
- Turn the camera off, remove the battery and the memory card, and dry it within 24 hours if water accidentally comes in contact with the camera.
- 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.
- When you use the camera, remove the battery if it overheats. Wait until the unit cools down.
- Download your photos and remove the memory card when you are going to store the camera for a long period of time.
- Store the camera in a dry environment and place it on a flat surface when you are going to store the camera for a long period of time.
- 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 the professional lens wiping cloth and dedicated cleaner to wipe and clean the lens.

Safety notes for battery

- Please use the battery with the same type as the attached.
- 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.
- Only use the supplied battery.
- If the rechargeable Li-ion battery in this camera overheats during charging, stop charging immediately and wait until it cools down to resume charging.
- 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 the 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

- 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.
- Format the memory card using the camera before you use it or insert a new one.
- We suggest buying only well-known, name brand memory cards to ensure peak performance.
- 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 screen may have a few dead or bright pixels. These pixels do not affect the quality or performance of the camera, photos or video.
- Do not expose the LCD screen to water. In a humid environment, only wipe it with a soft and dry cleaning cloth.
- If the LCD screen 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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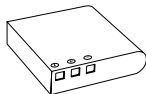
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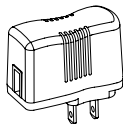
GETTING READY

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.



Rechargeable
Li-ion battery



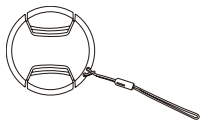
AC adapter



USB cable



Neck strap



Lens cap with cord



Quick start guide

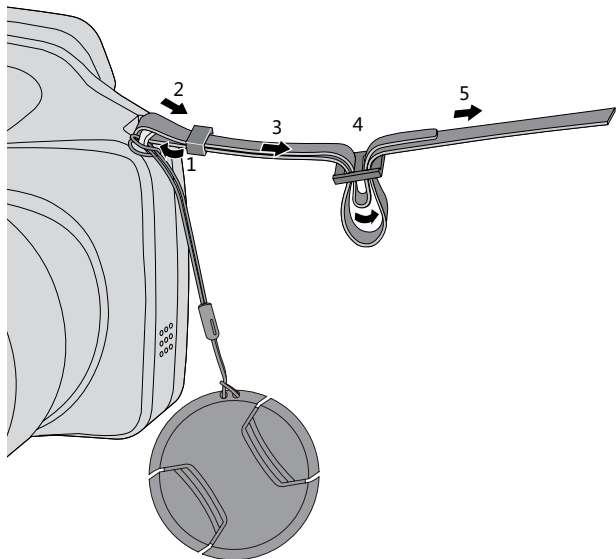


Warranty card

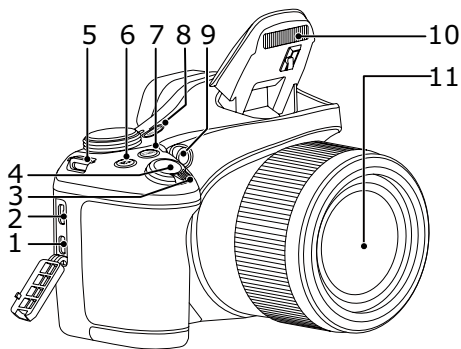


Service card

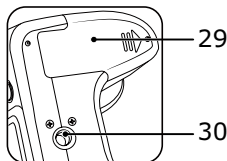
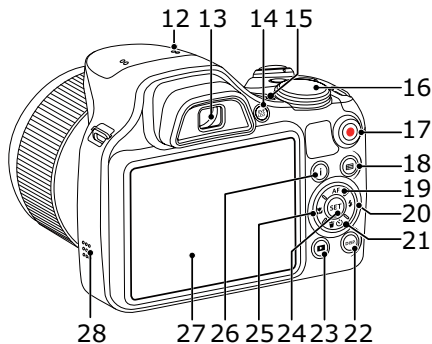
Install lens cap and neck strap



Part Names



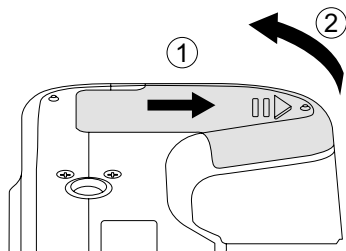
- 1 HDMI port
- 2 USB port
- 3 Zoom lever
- 4 Shutter button
- 5 Strap eyelet
- 6 Exposure compensation button
- 7 Continuous shot button
- 8 Power button
- 9 AF assist beam/Self-timer lamp
- 10 Flash lamp
- 11 Lens



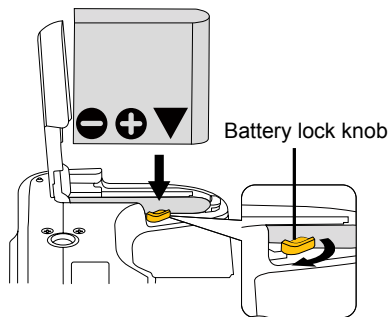
- 12 Microphone
- 13 Electronic view finder (EVF)
- 14 Electronic view finding window/ LCD screen button
- 15 Indicator lamp
- 16 Mode dial
- 17 Fast video recording button
- 18 Menu button
- 19 AF button/Arrow button (Up)
- 20 Flash button/Arrow button (Right)
- 21 Delete button/Self-timer button/Arrow button (Down)
- 22 Display button
- 23 Playback button
- 24 SET button
- 25 Macro button/Arrow button (Left)
- 26 i button
- 27 LCD
- 28 Speaker
- 29 Battery cover
- 30 Tripod socket

Installing Battery and Memory Card

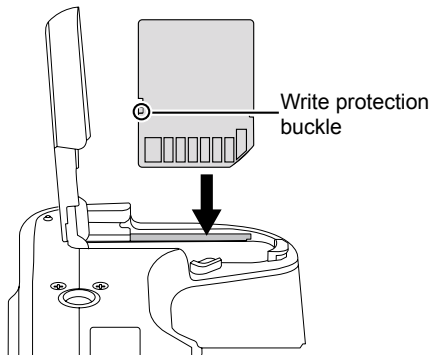
1. Open the battery cover.



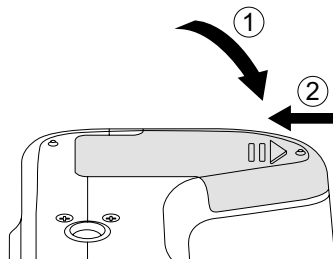
2. Insert the battery into the battery slot in the correct position as shown in the following diagram:





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



4. Close the battery cover.



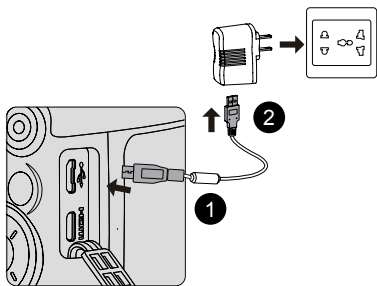
-  The memory card (SD/SDHC) is optional and not included in all camera packaging. If you have to purchase a memory card, select one with storage capacity between 4GB and 32GB to ensure correct data storage.

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

Charging Battery

Before charging the battery, ensure that the battery is inserted properly and the camera is off.

1. Connect the camera and the power charger using the supplied USB cable. (The plug shape of the power charger may vary depending on the country or region. The actual item may vary from the drawing below).
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.



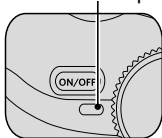
Charging indicator:

Flashing red: Charging

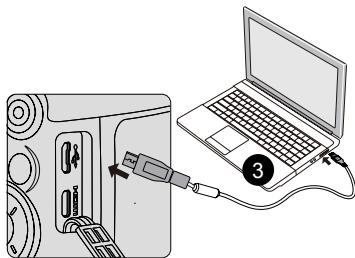
The indicator will go out once charging is finished, and the camera will be powered off automatically.

To have maximum battery life, charge the battery for at least 4 hours the first time.

Indicator lamp



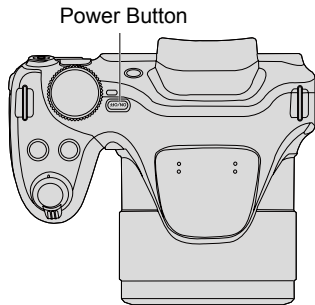
3. When the camera is turned off, you can also connect the camera to your PC using a USB cable to charge the battery.



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

Turning Camera On and Off

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



Press and hold the playback button to power on and enter playback mode.











Symbol Description

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 「」 .

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  button to confirm the selection, the Date/Time settings screen appears.
 4. Press the left/right arrow button to select the Date/Time to be adjusted: Time is displayed in yyyy:MM:dd HH:mm.
 5. Press the up/down arrow button to adjust the value for the selected Date/Time.
 6. Press the  button to confirm the time settings and the shooting screen appears.
2. Press the  button, press the up/down arrow button to select , and press the  button to enter the menu.
 3. Press the up/down arrow button to select , and press the  button or right arrow button to enter the menu.
 4. Press the up/down arrow button to select 「Language」 and press the  button or right arrow button to enter the menu.
 5. Press the arrow buttons to select your desired language and press the  button to confirm.
 6. Press the  button and the shooting 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 power button to turn the camera on.







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 power button to turn the camera on.
2. Press the  button, press the up/down arrow button to select , and press the  button to enter the menu.
3. Press the up/down arrow button to select , and press the  button or right arrow button to enter the menu.
4. Press the up/down arrow button to select 「Date & Time」 and press the  button or right arrow button to enter the menu.

5. Press the left/right arrow button to select the Date/Time to be adjusted: Time is displayed in yyyy:MM:dd HH:mm.
6. Press the up/down arrow button to press the value for your selected block. After you finish your settings, press the  button to confirm.
7. Press the  button and the following shooting screen appears.

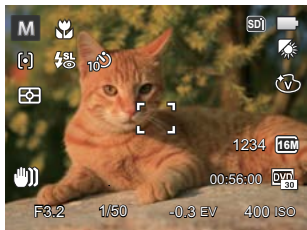


MODE OVERVIEW

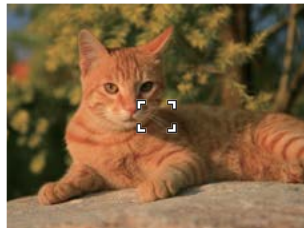
Display Setting

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

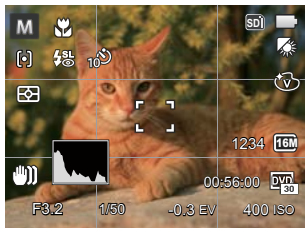
Classic: Displays the camera parameters on screen



Off: Does not display any additional icons on screen

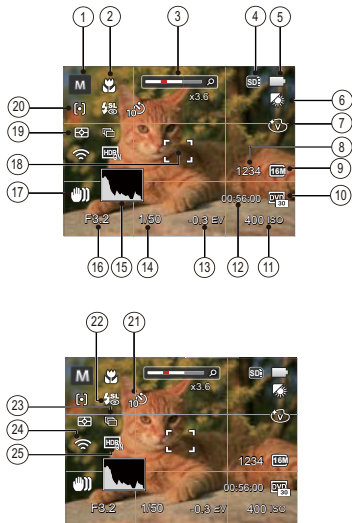


Full: Camera parameters with Grid and Histogram






LCD Screen Display



Overview of the screen icons in photo shooting mode



1 Shooting Mode Icons

- | | |
|---|---|
|  Auto Mode |  Face Beautifier |
| P Program AE |  Panorama Mode |
| S Shutter priority | SCN Scene Mode |
| A Aperture priority | CS Custom Settings |
| M Manual Mode | |

- 2 Macro Mode
- 3 Zoom Display (By turning the Zoom Lever)
- 4 Memory Card/Built-In Memory
- 5 Battery Status
- 6 White Balance (Adjustable in **P S A M** Mode)
- 7 Color Effect (Adjustable in **P S A M** Mode)
- 8 Number of remaining shots
- 9 Image Size

- 10 Video Quality
11 ISO Value (Adjustable in **PSAM** + Mode)
12 Remaining Recording time
13 Exposure Compensation (EV value)
(Adjustable in **PSA** + Mode)
14 Shutter Speed (Adjustable in **SM** Mode)

- 15 Histogram
16 Aperture Value (Adjustable in **AM** Mode)
17 Image stabilization
18 Focus Frame
19 Expo Metering



AiAE



Spot



Center

- 20 AF Mode



Single-AF



Multi-AF



Object Tracking

- 21 Self-Timer



Self-timer Off



Self-timer 2sec



Self-timer 10sec



Self-timer Smile

- 22 Flash Mode



Force Off



Flash Auto



Force Flash



Slow Sync.



Slow Sync. + Red-Eye



Red-Eye Reduction

- 23 Continuous Shot



Single



Continuous Shot



Cont. Shot- High Speed (VGA)



Cont. Shot-Fast (4M)

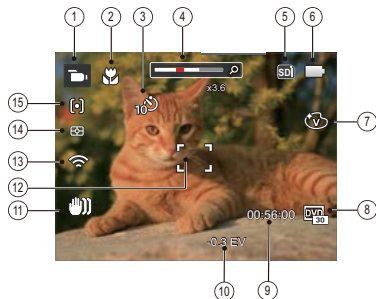




Time-Lapse (30sec/ 1min/ 5min/ 10min)

- 24 Eye-Fi ON (with signal)

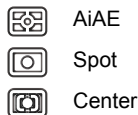
- 25 HDR (Adjustable in **PSAM** Mode)

Overview of the Screen Icons in Movie Mode





- 1 Movie Mode
- 2 Macro Mode
- 3 Self-Timer
 -  Self-timer Off
 -  Self-timer 10sec
- 4 Zoom Display (by turning the Zoom Lever)
- 5 Memory Card/Built-In Memory
- 6 Battery Status

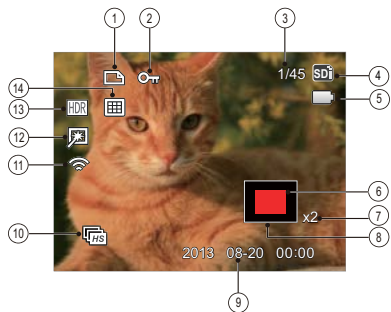
- 7 Color Effect
- 8 Video Quality
- 9 Remaining Recording time
- 10 Exposure Compensation (EV value)
- 11 Image stabilization
- 12 Focus Frame
- 13 Eye-Fi ON (with signal)
- 14 Expo Metering



15 AF Mode

-  For optimal video shooting, it is recommended that an SDHC memory card be used.
-  Optical Zoom and Digital Zoom can be adjusted (208X in total). Digital Zoom can be adjusted to 4X.





Overview of the Screen Icons in Playback Mode



1	DPOF File	8	Image Zone
2	File Protection	9	Shooting Date
3	Memory space (indicating the current number of photos and total number of photos)	10	Continuous Capture Group Playback
4	Memory Card/Built-in Memory	11	Eye-Fi ON (with signal)
5	Battery Status	12	Red-Eye Reduction
6	Zoom Magnification Area	13	HDR
7	Image Zoom Ratios	14	Date Folder

Using the Mode Dial


This camera provides a convenient mode dial that allows you to manually switch between different modes with ease. The available modes are listed below:

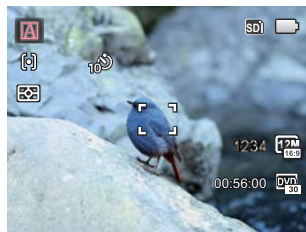
Mode Name	Icon	Description
Auto Mode		In this mode, the optimal conditions for taking pictures will be set based on the subject and environment. It is the most commonly used mode for taking pictures.
Program AE	P	Under different scenes, the user can switch the ISO and EV value according to personal preference, the camera can automatically set the shutter speed and aperture value.
Shutter priority	S	Setting allows you to choose a specific shutter speed so the camera will adjust the aperture automatically to ensure correct exposure.
Aperture priority	A	Allows you to choose a specific aperture and the camera will automatically adjust the shutter speed to match it.
Manual Mode	M	Many of the camera settings can be configured manually in this mode.
Face Beautifier		This mode automatically enhances facial features with skin softening touches and eye brightening capabilities.
Panorama Mode		You can take a panoramic photo in this mode.
Scene Mode	SCN	Choose from 12 different pre-set scene types and effects for your photos.
Movie Mode		Record videos.
Custom Settings	CS	The user can store the frequently used shooting modes and parameters and switch to this mode for quick adjustment.







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. Turn the mode dial to  .
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. The LCD screen will show a green focus frame when the subject is in focus.
4. Press the shutter button all the way down to take pictures.

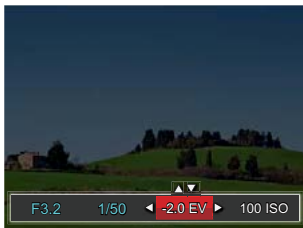



Mode Name	Description
 Landscape Mode	For landscapes, will automatically adjust the exposure and reproduce vivid green and blue colors.
 Portrait Mode	Most suitable for capturing people with focus on their faces.
 Night Portrait	When you take portraits at night, or in low light conditions, will automatically 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.
 Macro Mode	To produce more detailed close-ups, will automatically engage the camera's Macro Mode and automatically focus the lens.
 Auto Mode	The camera will automatically adjust the exposure and focus to ensure the best possible pictures.

Program AE **P**

When **P** (Program AE) mode is selected, you can adjust the EV value and ISO value.


1. Turn the mode dial to **P** and press the  button to configure settings.




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

Shutter Priority **S**

When **S** (Shutter Priority) is selected, you can adjust the shutter speed / EV value and ISO value. The camera automatically sets the aperture value based on the shutter speed and ISO value to get the most appropriate exposure value.


1. Turn the mode dial to **S** and press the  button to configure settings.

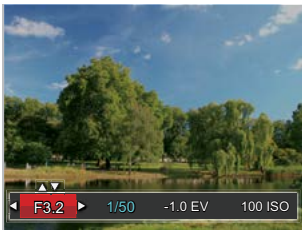



2. Press the left/right arrow button to select an adjustment item.
3. Press the up/down button to adjust the parameters.
4. Press the  button to confirm the settings and enter the shooting screen.

Aperture Priority **A**

When selecting **A** (Aperture Priority) mode, you can adjust the aperture value / EV value and ISO value. Selecting a large aperture opening will emphasize the point of focus and show a blurry background and foreground. A small aperture opening will keep both the background and main object in clear focus.


1. Turn the mode dial to **A** and press the  button to configure settings.

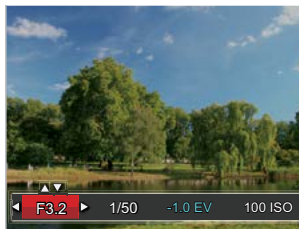



2. Press the left/right arrow button to select an adjustment item.
3. Press the up/down button to adjust the parameters.
4. Press the  button to confirm the settings and enter the shooting screen.

Manual Mode **M**

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





1. Turn the mode dial to **M** and press the  button to configure settings.



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




Face Beautifier

In face beautifier, the camera is set to automatically adjust camera exposure for realistic portrayal of skin tones.

1. Turn the mode dial to select face beautifier mode ().
2. Press the  button and press the up/down button to select  .
3. Press the left/right arrow button to select Face Beautifier and press the  button to confirm and return to photo shooting mode.





Face Beautifier Mode has 3 effects:

-  Effect 1: Skin Soften
-  Effect 2: Skin Soften + Eye Brightening
-  Effect 3: Skin Soften + Eye Brightening + Eye Enlargement

Panorama Mode


This feature allows you to capture a panoramic view that will have significantly more content than a single photograph. Follow the instruction arrow with a smooth and steady movement of the camera to seamlessly shoot an ultra-wide scene of up to 360 degrees.


Follow the steps below:




1. Turn the mode dial to 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  button or half press the shutter button to be ready to take pictures.
3. Compose your shot on the LCD screen and half press the shutter button to focus on the subject. After focusing, fully press the shutter button down to take the first picture. At this time, the process dialog of panorama mode stitching appears on the screen.




4. Move or rotate the camera according to the set direction. When the range of movement or rotation meets the internal settings of the camera, the progress dialog along the indication arrow partially turns red. When it completely turns red, panorama mode shooting is finished.

 Panoramic image can be played back by the method of flash playing. Please see the animation panoramic playback on page 55.

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

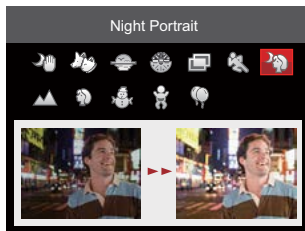
 During panorama mode shooting, press the  button to interrupt shooting and save the current pictures taken. Press the down arrow button () to cancel shooting and not to save the previously taken pictures.


 During panorama mode shooting, when the moving direction of the camera is wrong or the angle deviates from the internal settings, the LCD shows a warning message 「Improper alignment. Please try again.」 and the current pictures taken are saved.













Scene Mode SCN

You can select an appropriate mode from the 12 scene modes according to the type of environment you are shooting. The camera then configures the most appropriate settings automatically.

Turn the mode dial to the scene mode to enter the Scene Mode menu. What the LCD screen displays is shown in the following example:



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

Scene	Description
 Handheld Night	Clear night scene pictures can be easily captured without using a tripod.
 Pet Mode	Rapidly identify pet (dog/cat), capture the dynamic moment of pet.
 Sunset	For sunsets. Capture subjects in strong sunlight.
 Fireworks	For fireworks at night. The use of a tripod is recommended.
 Multi Exposure	Suitable for shooting moving objects (as many as 6) in the same background.
 Sport	For fast-moving subjects. Capture sharp, action shots with minimal blur. This mode is not recommended for shooting indoors.
 Night Portrait	For portraits against night scenery.
 Landscape	For landscapes and outdoor shots. Vivid reproduction of green and blue.
 Portrait	Most suitable for capturing people with focus on their face.
 Snow	For snow scenes. Reproduce natural, clear white scenes.
 Children	Turns off flash automatically. Avoids disturbing subject, suitable for taking photos of children.
 Party	Suitable for taking indoor party pictures, even under the complicated lighting conditions.

*** Multi Exposure:**

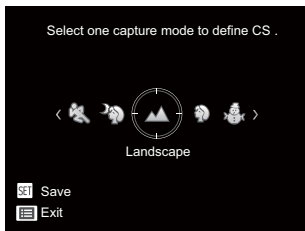
- Keep camera steady before shooting. Press and hold the shutter button to take 6 photos continuously when it will stop automatically. To stop shooting, release the shutter button in the midway.
- Objects shall be moved only from left to the right in order to be recorded. Objects moving from other directions would not be recorded.
- Shooting effect will be influenced if object is moving too fast or too close.

Custom Settings CS

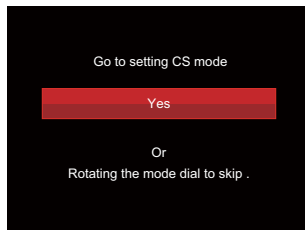
The user can store the frequently used shooting modes and parameters and switch to this mode for quick adjustment.

Settings under **CS** mode (unset state or state after reset):

1. Turn the mode dial to select the **CS** mode, and enter the setup screen, as shown in the figure below:




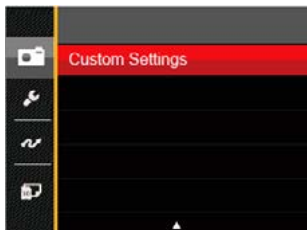
2. As shown in the above example, press the left / right arrow buttons to select a scene, and press the **SET** button to enter the shooting screen.
3. As shown in the above example, press the **SET** button, and choose whether to continue the **CS** mode setting.



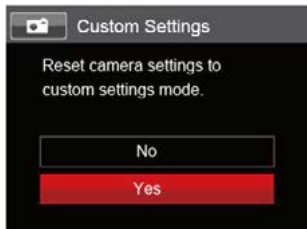
For setting under other modes (use this method to select a different custom setting):

1. Select any mode or scene mode to be stored.
2. Set your desired parameters in the current mode.
3. Press the **SET** button, press the up/down arrow button to select **SET**, and press the **SET** button to enter the menu.
4. Press up/down arrow button to select **CS**, and press the **SET** button or right arrow button to enter the menu.


5. Press the down arrow button select 「Custom Settings」 and press the  button or the right arrow button to enter the menu.






6. Select 「Yes」 to save or 「No」 to cancel.



7. Turn the mode dial to switch to the custom settings (**CS**).
8. The photo settings you stored the last time are invoked.

 When the **CS** mode is used for the first time, there is no preset parameter stored in the **CS** mode.

 Under the **CS** mode, if you need to retain or modify the set parameters (except the parameters in ) in restart or all modes. Please enter the 「Custom Settings」 menu and select 「Yes」 after setup. Otherwise, the parameter settings are not retained in the case of switching on/off or mode switching.

 If you want to remove the parameter setting of 「Custom Settings」, please see the reset function on page 83 to operate.

BASIC OPERATION



Using EVF (Electronic View Finder)

EVF functions as the LCD, which can be used to observe the scene and objects and for playback, preview and menu operations.

EVF has the following advantages:

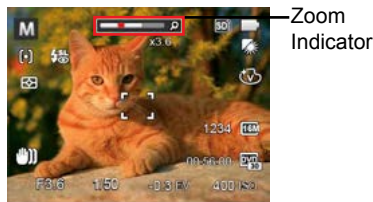
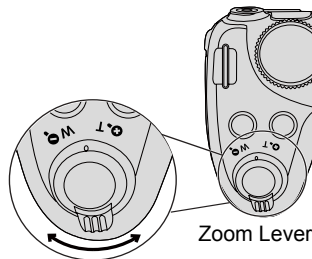
- It will not be affected by ambient light and may avoid poor composition due to light reflection on the LCD screen.

Follow the steps below:

1. Turn the camera on and press the  button to switch to the EVF display. At this time, the LCD screen will become black.
2. View the scenes and objects through the EVF.
3. Press the  button again or restart the camera to switch back to the LCD display.

Using the Zoom Function

Your camera is equipped with two types of zoom functions: Optical zoom and digital zoom. Toggle the zoom lever of the camera to zoom in or out of the subject while taking pictures.



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




Focus Setting

In different photo shooting modes, you can select different focus methods.

1. Press the up arrow button (**AF**) to display the settings screen.



2. Press the left/right to select the following 3 modes:

-  Single-AF: The focus frame appears on the center of the LCD screen to focus on the subject.
-  Multi-AF: The camera automatically focuses the subject in a wide area to find the focus point.
-  Object Tracking: Smart tracking of the object in motion under the focusing shooting.


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

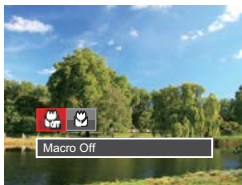
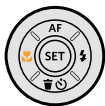


Once enabled, Object Tracking will only work when lens is focused on the object.



Macro Mode

The Macro Setting 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 to select the following 2 modes:

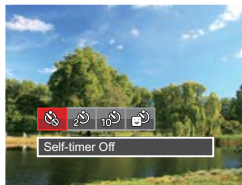
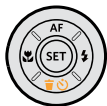
-  Macro Off
Select this option to disable Macro.
-  Macro On
Select this option to make focusing on the object closer to the lens (At the W side, the shooting distance should be more than 1 cm).

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



Self-Timer Setting



Using this function can take photos at regular time. The camera can be set to shoot after 2 seconds, 10 seconds since pressing the shutter or shoot after smile.

1. Press the down arrow button ( ) to enter the self-timer menu.






2. Press left/right 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  button to confirm the settings and exit the menu.

 When enabling the self-timer, pressing the shutter or Down Arrow Button can disable the self-timer and return to the shooting screen, and keep the self-timer setting.

 When enabling the smile detection, pressing the Shutter Button or  button can disable the self-timer without keeping the self-timer - smile setting.



Flash Mode





The flash is mainly for supplementing light for the scene. The flash is usually used in shooting against the light to highlight the object shot through lightening the object while darkening the background; it is also suitable for metering and shooting in darker scenes through exposure.



1. Press the right arrow button () to enter the Flash Settings Menu.



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

-  Force Off
Flash is turned off.
-  Flash Auto
Camera flash goes off automatically based on existing light conditions.


-  Force 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 synchro 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  button to confirm the settings and exit the option.
 -  After pressing the shutter to make focusing, if the photometric value is less, the flashlight on the top will bounce automatically.

White Balance Setting









The white balance function allows adjustment of the color temperature for different light sources. (Adjustable in **PSAM** Mode)

Follow the steps below to set white balance of the camera:

1. Press  button to enter White Balance Menu.




2. Press the left/right to select the following 8 modes:

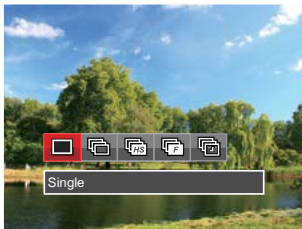
-  AWB
-  Daylight
-  Cloudy
-  Fluorescent
-  Fluorescent CWF
-  Incandescent
-  Manual WB (Fully press the shutter button to detect the white balance value)
-  Color Temp. (1900K~10000K)
Press direction buttons Up / Down to "Adjust the K value";
Press the direction button Left to exit the K value.

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



Continuous Shot




Follow the steps below to configure the Continuous Shot Settings:


1. Press the  to enter the Continuous Shot Menu.




2. Press the left/right to select the following 5 modes:

-  Single
Capture a single shot only.
-  Continuous Shot
Shoot at the rate of 9 pictures per second with the maximum pixel setting.

-  Cont. Shot-High Speed (VGA)
60 photos/sec can be achieved at the burst shooting in VGA pixel.
-  Cont. Shot-Fast (4M)
30 photos/sec can be achieved at the burst shooting in 4M pixel.
-  Time-Lapse
Take pictures based on the preset interval (30sec/ 1min/ 5min/ 10min).


3. Press the  button to confirm the settings and exit the menu.
4. Press the shutter button to start continuous shooting.

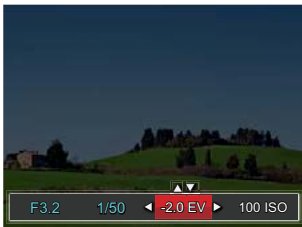
-  The flash is disabled in this mode in order to achieve quick succession of shots.


EV Setting

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



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

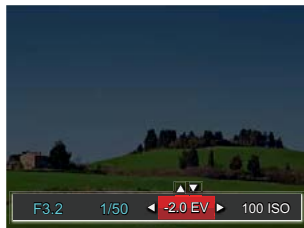
1. Press the  button to display the settings screen.
2. Press the left/right arrow button to select the setting options.



3. Press the up/down button to adjust the option values.
4. Press  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 **PSA**   Mode)



The adjustable range of exposure value is from EV -3.0 to EV+3.0.

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.

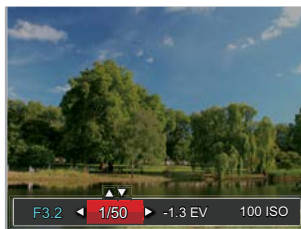
Pictures taken at higher ISO settings will generally have more noise than those taken at lower ISO settings. (Adjustable in **PSA M** + Mode)



The camera's ISO settings include: automatic, 100, 200, 400, 800, 1600 and 3200.

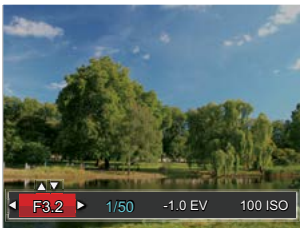
Shutter Adjustment

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 **SM** Mode)




Aperture Adjustment

You can adjust the aperture size value. Selecting a large aperture opening will emphasize the point of focus and show a blurry background and foreground. A small aperture opening will keep both the background and main object in clear focus. (Adjustable in **AM** Mode)



Using Quick Recording

In shooting mode, press the Recording shortcut button  to begin recording video.




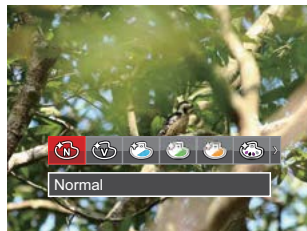
After finishing, press the Recording shortcut button or the Shutter Button to stop and store the video. The camera will return to shooting mode automatically.



i Button Function Menu

Mode: **PSAM** 





























The Image Color Setting allows you to select different color effects.

1. Press the  button to select the Image Color Setting Menu.
2. Press the left/right arrow button to select the Image Color Setting options.



 () represents optional in the recording mode.



There are 20 Image Color options in photo shooting mode **PSAM** :


Options	Options	Options
 Normal ()	 Sepia ()	 Vignetting
 Vivid ()	 Partial Color-Red ()	 Salon
 Japan Style	 Partial Color-Blue ()	 Fish Eye
 Italian Style	 Partial Color-Yellow ()	 Reflection
 French Style	 Partial Color-Green ()	 4 Grids - Stylish(2M)
 Punk	 Negative	 Sketch
 Black and White ()	 Dreamy	

PLAYBACK

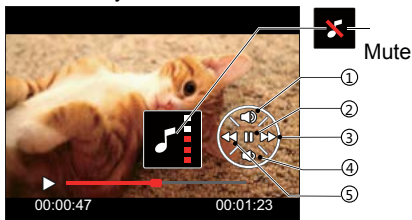
Viewing Photos and Videos

To view photos and videos on LCD screen:

1. After pressing the  button, the last photo or video clip taken will be displayed on the LCD screen.
2. Use the Left/Right arrow button to scroll through the photos or video clips stored in the internal memory or on the memory card.
3. To play a selected video, press the  button to enter the Movie Playback Mode.

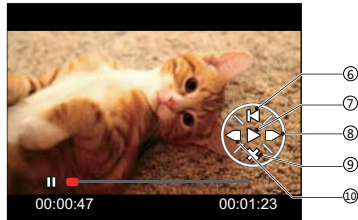
During video playback, the operating instructions will appear on the screen. Press the Left/Right button, and press the  button to engage the following actions:

Play mode




1	Increase Volume
2	Pause
3	Fast Forward
4	Decrease Volume
5	Rewind

Pause mode

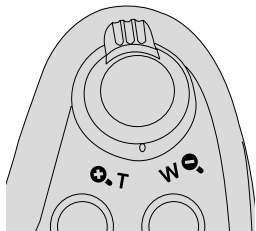


6	Back to the beginning of the video
7	Play
8	Play video forward
9	Cancel playback
10	Play video backward

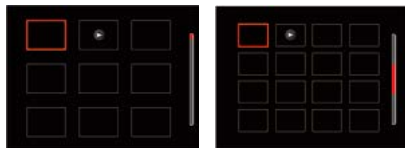
Thumbnail View


When in Playback Mode, rotate the Zoom Lever counter clockwise to the **W**  position to display thumbnail images of the photos and videos on the screen. (the picture is displayed in horizontal position)



W Zoom Out  T Zoom In



1. Slide the Zoom Lever 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.





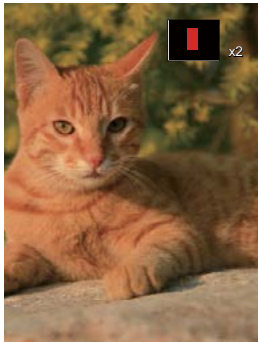
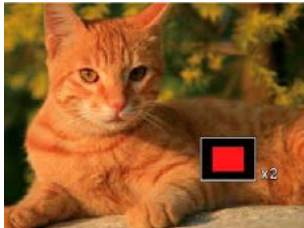
3. Press the arrow buttons to select a picture or video clip to view and press the  button to restore it to the original size.


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

Using Zoom Playback (for still pictures only)

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

1. Press the  button to switch to Playback Mode.
2. Press the left/right button to select a picture to be zoomed in.
3. Rotate the Zoom Lever clockwise to  to zoom in.
4. The screen will display the number of times and area of the photo zooming operation.





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






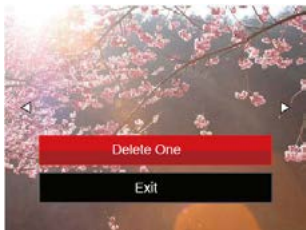
Movie images cannot be magnified.


Photos and Video Deletion

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

To delete photos or videos:

1. Press the  button to switch to playback mode.
2. Press the left/right arrow button 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 button to select 「Delete One」 or 「Exit」 and press the  button to confirm.





Erased photos/video clips cannot be recovered.



Please refer to page 76 for instructions on deleting more than one image at a time.




Slideshow

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

1. Press  button to enter playback screen.
2. Press  button to enter slide option.
3. Press the left/right button to select slideshow playing or 「Cancel」 to return to the playback screen.





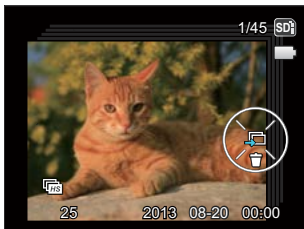
4. Press the  button to confirm the setting.

-  The continuous capture group playback may be displayed by slideshow.
-  Pictures rotate automatically during a slide show.
-  Slide playing function supports movie playing.

Continuous Capture Group Playback



Ultra-high speed (VGA) and high speed (4M) can make continuous capture for group image playback.

1. Press  button to enter playback screen.
2. Press the left/right arrow button to select Cont. Group.
3. Press  to start playback.




Animation panorama play

Panoramic animation playing is to play full size image in accordance with the shooting direction. After playing, it will automatically return to the static screen of panoramic image.

1. Press  button to enter playback screen.
2. Press Left/Right arrow keys to select animated panoramic photos.
3. Press  key to play in selected shooting direction.





In the process of panoramic animation playback, press the  key to stop playing and return to the playback screen.

USING THE MENUS

Photo Setup Menu

Mode:  **PSAM** +  **SCN**

1. In Photo Shooting Mode, press the  button to enter the Photo Shooting Menu.
2. Press the up/down arrow button to select the Photo Shooting Menu to be set.
3. Press the left/right arrow button 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) targets the camera's entire field of view.
- Spot metering targets a small area in the center of the camera's field of view.
- Center metering targets a slightly larger area in the center of the camera's field of view.



AI AE (Artificial Intelligence AE): Automatically selects the central and peripheral metering, to calculate the reasonable value of metering by weighting.

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.

OIS

This mode can help reduce photo blur caused by unintentional hand shake, or low light.



- Use this image stabilization mode in dark environments.
- Shooting in a windy or unstable environment (such as a moving vehicle) may cause blurred images.

Cont. AF

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



There are 2 options:

- Off
- On

HDR

Use this setting to control wide dynamic image range when taking static pictures. Photos with extreme contrast of bright and dark areas will still maintain distinguishable detail and depth.

(Use of tripod is recommended)



There are 2 options:

- Off
- On






In the scenario with high light contrast (too dark or too light), this function can be used to shoot satisfactory photos.

Beauty

Set the effect of the beauty mode.



Beautifier Mode has 3 effects:

-  Effect 1: Skin Soften
-  Effect 2: Skin Soften + Eye Brightening
-  Effect 3: Skin Soften + Eye Brightening + Eye Enlargement

Scene

Select the scene mode under the SCN mode.



- Shooting menu in the shooting mode (O: Optional X: Not optional)









Options	Shooting Modes					
		P	S	A	M	
	O	O	O	O	O	O
	O	O	O	O	O	O
	X	O	O	O	O	O
	X	O	O	O	O	O
	X	O	O	O	O	X
	X	X	X	X	X	O

Photo Shooting Setting Menu

Mode: **PSAM** + **SCN**

1. Press the button in Photo Shooting Mode and press the up/down button to select .

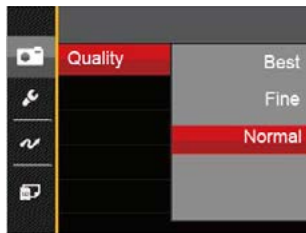


2. Press the button to enter the menu.
3. Press up/down arrow button to select , and press the button or right arrow button to enter the menu.
4. Press the up/down arrow button to select the item to be set and press the button or right arrow button to enter the menu.

5. Press the up/down arrow buttons to select an option and press the 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: 4.5MB)
- Fine (16M Average File Size: 2.5MB)
- Normal (16M Average File Size: 2.3MB)

AF-Assist Beam

In a darker environment, AF Assist Beam can be turned on for better focus.



Date Imprint

Include a Date/Time stamp on the photo image.



Digital Zoom

Turn on or off the digital zoom.



- 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 screen based on the selected time.

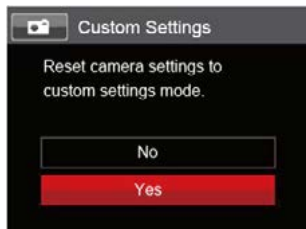


There are 4 options:

- Off
- 1 sec
- 2 sec
- 3 sec

Custom Settings


Custom Settings stores the current photo shooting mode and its parameters. The stored mode and parameters are directly invoked in Custom Settings mode.





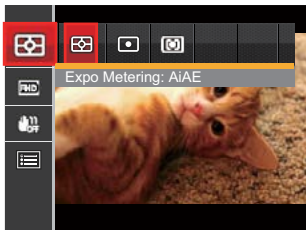
There are 2 options:


- No
- Yes

Movie Menu

Mode: 

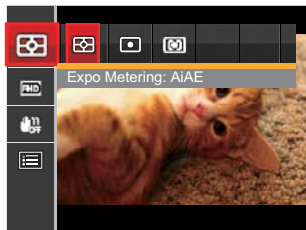
1. Turn the mode dial, select the  mode and press the  button to enter the Movie Menu.



2. Press the up/down arrow button to select the Movie Menu to be set.
3. Press the left/right arrow button to select the Movie Menu to be set and press the  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:

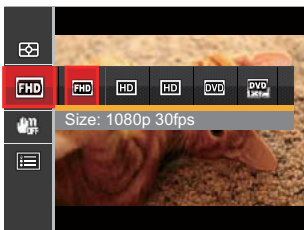
- AiAE (Artificial Intelligence AE) targets the camera's entire field of view.
- Spot metering targets a small area in the center of the camera's field of view.
- Center metering targets a slightly larger area in the center of the camera's field of view.



AIAE (Artificial Intelligence AE): Automatically selects the central and peripheral metering, to calculate the reasonable value of metering by weighting.

Video Quality

Set the image resolution used during video recording.



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

No.	Image Pixel	Frame	Recommendation	Recording time (4GB) About
1	1920x1080 *	30	Class 6	20 minutes
2	1280x720 *	60	Class 6	25 minutes
3	1280x720 *	30	Class 4	45 minutes
4	640x480	30	Class 4	105 minutes
5	640x480	120	Class 6	40 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.

When the video format is set as 640x480 (120fps), shooting time is 30 seconds, playback time is 2 minutes.

Sound recording is disabled when 640x480 120fps is chosen.

OIS


This mode can help reduce photo blur caused by unintentional hand shake, or low light.







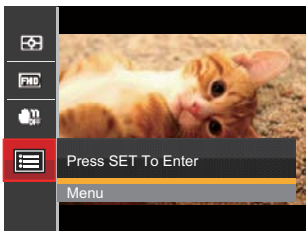
Use this image stabilization mode in dark environments.




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


Movie Setting Menu

Mode: 

1. Turn the Mode Dial and select  to enter the video recording screen.
2. Press the  button, press the up/down arrow button to select , and press the  button to enter the menu.



3. Press up/down arrow button to select , and press the  button or right arrow button to enter the menu.
4. Select the items to be set and press the  button or the right arrow button to enter the menu.


5. Press the up/down arrow buttons to select an option and press the  button to confirm.





Digital Zoom

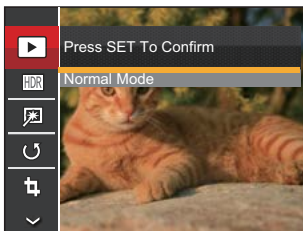
Turn on or off the digital zoom.



Playback Menu







Mode: 

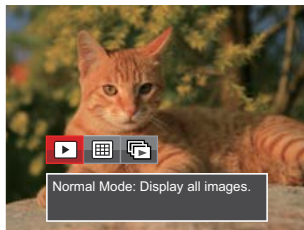
1. Press the  button to display the playback screen and press  button to enter the menu.
2. Press the up/down arrow button to select the playback to be set and press  button to enter.
3. Press the left/right arrow buttons to select an option and press the  button to confirm.




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


Playback

1. Press the  button, select the  settings, and press the  button to display the settings screen.
2. Press the left/right button to select from the following 3 functions:
 -  Normal Mode: Display all images.
 -  Date Mode: Arranged by date.
 -  Cont. Photo Mode: Arranged by Cont. Photo Group.






3. Press the  button to confirm the setting.

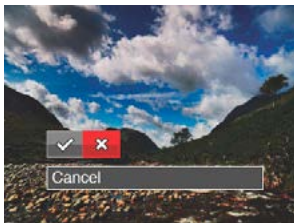
 The Date Folder is displayed in date order based on photo shooting date/time.


 If there is no any continuous capture image file in the memory, continuous capture playback mode cannot be enabled!

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 button to select the photos to be edited.
2. Press the  button, select the  settings, and press the  button to display the settings screen.
3. Press the left/right button 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.

Touch-up


1. In Playback Mode, press the left /right arrow button to select the photos to be edited.
2. Press the  button, select the  settings, and press the  button to display the settings screen.
3. Press the left/right button to select Touch-up options or 「Cancel」 to return to the playback Screen.




 : Red-Eye Reduction


 : Skin Soften

 : Eye Brightening

 : Eye Enlargement




 : Cancel

4. Press the  button to confirm the setting.

 The Touch-up mentioned here is the individual beautification for three effects, beauty mode allows you to select from single, two, or all three effects combined.


Rotate


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


1. In Playback Mode, press the left /right arrow button to select the photos to be edited.
2. Press the  button, select the  settings, and press the  button to display the settings screen.
3. Press the left/right button to select the rotation direction or 「Cancel」 to return to the playback Screen.





 : Turn Right

 : Turn Left

 : Cancel




4. Press the  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 button to select the photos to be edited.
2. Press the  button, select the  settings and press the  button to display the settings screen.
3. Press the left/right arrow button to select 「1024X768」 or 「640X480」 or select 「Cancel」 to return to the playback Screen.

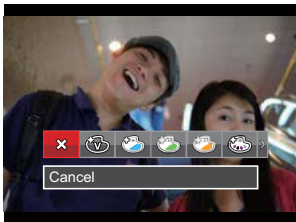


4. Press the  button to confirm the setting.

i button playback function


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 button to select the photos to be edited.
2. Press the  button to select the Image Color Setting Menu.
3. Press the left/right button to select the corresponding menu or 「Cancel」 to return to the playback Screen.




4. Press the  button to confirm the setting.





There are 19 options:

-  Cancel




-  Vivid
-  Japan Style (8M)
-  Italian Style (8M)
-  French Style (8M)
-  Punk (4M)
-  Black and White
-  Sepia
-  Partial Color-Red
-  Partial Color-Blue
-  Partial Color-Yellow
-  Partial Color-Green
-  Negative (8M)
-  Dreamy
-  Vignetting
-  Salon
-  Fish Eye
-  Reflection
-  4 Grids - Stylish (2M)


Playback Setting Menu

Mode: 

1. Press the  button to show the playback screen, press the  button, and press the up/down button to select  .
2. Press the  button to enter the menu.



3. Press up/down arrow button to select  , and press the  button or right arrow button to enter the menu.
4. Press the up/down arrow button to select the item to be set and press the  button or right arrow button to enter the menu.

5. Press the up/down arrow buttons to select an option and press the  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:

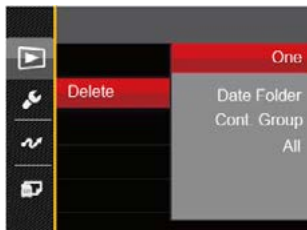
1. Press the up/down arrow button to select 「Protect」 and press the  button or right arrow button to enter the sub-menu.
2. Press the up/down arrow button to select the sub-menu and press the  button or right arrow button to show the settings screen.

There are 5 sub menus available:



- One: Lock the selected photo or video if they are unprotected; unlock the selected photo or video if they are protected.
 - Date Folder: Protect all photos in the Date Folder.
 - Cont. Group: Protect all photos in the Cont. Group.
 - 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  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 button to select 「Delete」 and press the  button or right arrow button to enter the submenu.
2. Press the up/down arrow button to select the submenu and press the  button or right arrow button to show the settings screen.

There are 4 sub menus available:

- One: Delete one photo or video.
 - Date Folder: Delete all photos in the Date Folder.
 - Cont. Group: Delete all photos in the Cont. Group.
 - All: Delete all photos or videos.
3. Press the up/down arrow buttons to select an option and press the  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.




When one photo in the Cont. Photo and Date Folders is protected, it will be kept but any other photos will be deleted.

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 SD memory card to print without having to individually specify the photos you want to print.

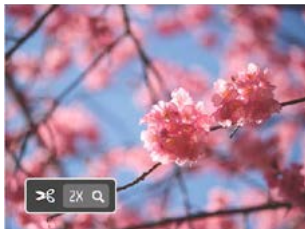



 The printer that supports DPOF is needed for printing.


Trim

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

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



3. Press the  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 : PS SCN

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




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

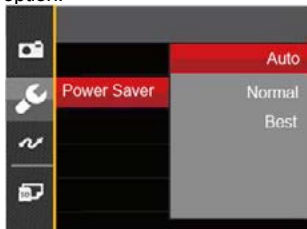



3. Press the  button to confirm.

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 screen and camera off automatically after a consecutive period of inactivity.

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



3. Press the  button to confirm.




Power Saver	LCD power off time	Turn off time
Auto	3 min	5 min
Normal	1 min	3 min
Best	30 s	1 min

Language

Refer to the “Reset your language” section on page 20.

Zone

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

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




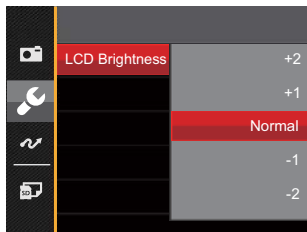
Date/Time

Refer to the “Reset Date/Time” section on page 21.

LCD Brightness

Use this setting to adjust the brightness of your LCD screen.

1. Select 「LCD Brightness」 in the basic settings menu. Press the  button or right arrow button to enter the menu.
2. Press the up/down arrow button to select an option.










3. Press the  button to confirm.


Format Memory

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 button to select  and press the  button to enter the menu.
2. Press up/down arrow button to select  and press the  button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「Format」 and press the  button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Yes」 or 「No」 and press the  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 internal memory to a memory card.








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



Reset







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

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



FW Version

Use this setting to view the current camera firmware version.

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










CONNECTIONS

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

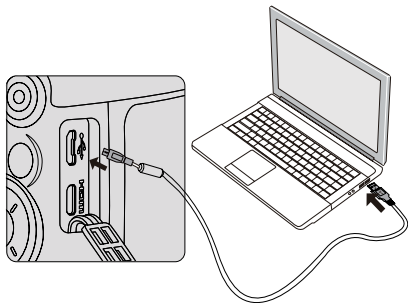


Transferring files to your computer

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 the computer is 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 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  button, press the up/down arrow button to select  and press the  button to enter the menu.
2. Press up/down arrow button to select  and press the  button or right arrow button to enter the menu.
3. Press the up/down arrow button to select 「TV-System」 and press the  button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「NTSC」 or 「PAL」 and press the  button to confirm.










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

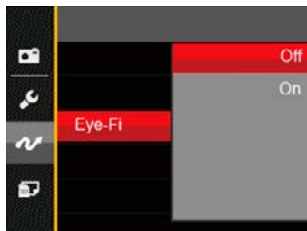
NTSC: English, Chinese (Traditional), Japanese, French, Korean, Russian, Vietnamese, Greek, Hungarian


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

Set Eye-Fi SD Card Connection Mode

This camera supports the wireless connection for Eye-Fi memory card. Enable Eye-Fi connection by following below steps.

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

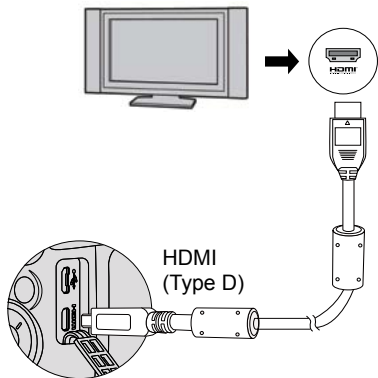


 If the Eye-Fi card is not available in the camera, this feature is not displayed.

Supported HDMI Connections

HDMI (High Definition Multimedia Interface), is a fully digital audio/video transmission interface, through which uncompressed audio and video signals are transmitted.

Direct transmission of digital video signals to your TV reduces conversion loss and improves image quality.



Connecting HDMI-Ready TV

1. Use the cable with high resolution output terminal (which should be purchased separately) to connect the camera to the television which meets HDMI standard.
2. The camera will be automatically detected by the TV.
3. After connecting via HDMI, the camera enters Playback Mode.



Make sure the camera and the TV are both turned on before connecting.



Refer to your TV instruction manual for information on what resolution sizes it will support. The resolution and output formats that are not supported will be grayed out on the camera's LCD screen.

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 button to select  and press the  button to enter the menu.
2. Press up/down arrow button to select  and press the  button or right arrow button to enter the menu.

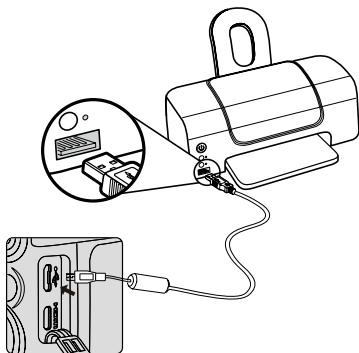
3. Press the up/down arrow button to select 「USB」 and press the  button or right arrow button to enter the menu.
4. Press the up/down arrow buttons to select 「Printer」 and press the  button to confirm.



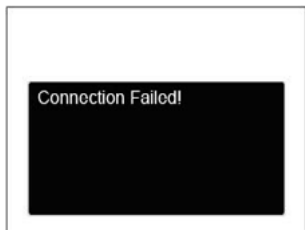
-  After the camera is reset, it will switch to PC mode automatically from USB mode.
-  See "PictBridge" section on page 91.


Connecting to your Printer

1. Make sure the printer is 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 screen.




-  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 button to select a menu item and press the  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 button to select a photo to be printed.

- Press the up/down arrow button to select the number of copies for the currently displayed photo.
- Press the  button and the following screen will appear.




- Select 「Yes」 and press the  button to confirm; select 「Cancel」 to cancel printing.

Print (without Date)


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

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



- Press the left/right arrow button to select a photo to be printed.
- Press the up/down arrow button to select the number of copies for the currently displayed photo.
- Press the  button and the following screen will appear.




5. Select 「Yes」 and press the  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  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 77.

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



2. Select 「Yes」 and press the  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.

APPENDICES

Specifications



Design and specifications are subject to change without notice.

Effective Image Sensor Pixels		16.38 Megapixels
Total Image Sensor Pixels		16.79 Megapixels [1/2.3"CMOS]
Lens	Focal Length	4.3mm (Wide) — 223.6mm (Tele)
	35mm film equivalent	24mm (Wide) — 1248mm (Tele)
	F number	F2.8 (Wide) — F5.6 (Tele)
	Lens Construction	13 groups 15 elements
	Optical Zoom	52x
	Focusing Range	Normal: (Wide) 60cm ~ ∞, (Tele) 300cm ~ ∞; Macro: 1cm ~ ∞ (Wide Only)
Electronic Viewfinder		Yes
Anti-Handshake		Optical Image Stabilization
Digital Zoom		4x Digital Zoom (Combined Zoom: 208x)

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	1920×1080 (30fps), 1280×720 (60fps), 1280×720 (30fps), 640×480 (30fps), High-Speed Movie: 640×480 (120fps)		
Image Compression		Best, Fine, Normal		
DCF, DPOF (Ver1.1) Support		Yes		
File Format	Still Image	Exif 2.3 (JPEG)		
	Movie	MOV [Image: H.264; Audio: Linear PCM (Stereo)]		
Shooting Modes		Auto Mode, Program AE, Shutter Priority, Aperture priority, Manual Mode, Face Beautifier, Panorama Mode, Scene Mode [Handheld Night, Pet Mode, Sunset, Fireworks, Multi Exposure, Sport, Night Portrait, Landscape, Portrait, Snow, Children, Party], Movie Mode, Custom Settings		
Detection Features		Face, Smile, Blink, Cat, Dog		
Photo Touch-up		Red-Eye Reduction, Skin Soften, Eye Brightening, Eye Enlargement		

HDR	Yes
Scan Panorama	0° ~ 360°
LCD Display	3.0 inch (460k Pixels)
Image Auto Rotation	Yes
ISO Sensitivity	Auto, ISO100/200/400/800/1600/3200
AF Method	Single AF, Multi-AF (TTL 25-point), Object Tracking, 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), Shutter Prior AE, Aperture Prior AE
Exposure Compensation	±3EV in 1/3 Step Increments
Shutter Speed	1/2000 ~ 30 Seconds
Continuous Shooting	Yes
Playback Modes	Single, Index (9/16 Thumbnails), Slide Show, Date, Burst Shooting, Zoom (Approx. ×2 ~ ×8)
White Balance Control	AWB, Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual WB, Color Temp. (1900K ~ 10000K)

Flash	Flash Method	Pop-up (Auto)
	Flash Modes	Force Off, Flash Auto, Force Flash, Slow Sync., Slow Sync. + Red-Eye, Red-Eye Reduction
	Shooting Range	(Wide) Approx. 0.5m ~ 7.5m (ISO 800) (Tele) Approx. 1.2m ~ 3.7m (ISO 800)
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)		English, Chinese (Simplified and Traditional), Japanese, Korean, French, Spanish, Portuguese, Thai, Indonesia, Vietnamese, Italian, German, Dutch, Russian, Polish, Swedish, Danish, Finnish, Norwegian, Greek, Turkish, Hungarian, Croatian, Czech, Arabic, Hindi
Jacks		AV-OUT/USB 2.0 (Micro 5 pin USB), HDMI (Type D)
Eye-Fi Support		Yes
Power		Rechargeable Li-ion Battery LB-060, 3.7V 1100mAh, In-Camera Charging
Shooting Capability (Battery Performance)		Approx. 240 Shots (Based on CIPA Standards)
Operation Environment		Temperature: 0 ~ 40 ^o C, Humidity: 0 ~ 90%
Dimensions (W×H×D)		Approx. 118.9×88.9×97.5mm (Based on CIPA Standards)
Mass		Approx. 530g (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.	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.
Built-in memory error!	An error occurs in internal memory.	The message will disappear after 2 seconds.
Improper alignment. Please try again.	The offset is too big for panorama shooting.	Retry taking the panoramic picture. The message will disappear after 2 seconds.
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.

Message	Description	Action
Remove USB Cable!	Indicates that you can disconnect the USB cable.	The message disappears after you disconnect the USB cable.
Connection Failed!	Failure to connect to your PC, printer, TV (with HDMI).	Remove USB cable and retry connection
Write Protect !	The memory card is locked.	The message will disappear after 2 seconds.
Card Full !	Indicates that the memory card is full.	The message will disappear after 2 seconds.
Memory Full !	Indicates that the camera memory is full.	It disappears after 2 seconds.
Card Error !	The memory card can't be identified after being formatted.	Normal display.

Message	Description	Action
Card is not formatted.	When an error occurs in the memory card, the message "Not Formatted" appears.	The message will disappear after 2 seconds.
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.	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.	The message will disappear after 2 seconds.
No Red-Eye Detected!	Red eyes have not been detected in the image.	The message will disappear after 2 seconds.
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.	Prompt message when the archives or file folders in memory card have reached the maximum (9999 for archives, 999 for file folder).	The message will end after the camera processing is complete.

Message	Description	Action
Too many pictures for quick 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.
No continuous group file.	When you switch from the playback mode to continuous photo mode, there is no continuous group file.	The message disappears after 2 seconds and the camera returns to the normal playback mode.
Protected! Undeletable!	The file is protected. The message appears when you delete it.	The message will disappear after 2 seconds.

Troubleshooting

Problem	Possible causes	Solution
Camera does not turn on	<ul style="list-style-type: none"> ■ The battery has been depleted. ■ The battery is not inserted correctly. 	<ul style="list-style-type: none"> ■ Recharge the battery. ■ Correctly reinstall the battery.
Camera turns off suddenly during operation	<ul style="list-style-type: none"> ■ The batteries have been depleted. 	<ul style="list-style-type: none"> ■ Recharge the battery.
The picture is blurred	<ul style="list-style-type: none"> ■ Camera shakes while taking a picture. 	<ul style="list-style-type: none"> ■ Turn on OIS feature. ■ Please use tripod for high magnification (above 15X) optical zoom.
Images and video files cannot be saved	<ul style="list-style-type: none"> ■ The memory card is full. ■ The memory card is locked. 	<ul style="list-style-type: none"> ■ Use another memory card or delete unnecessary files. ■ Unlock the memory card.
Images will not print from the connected printer	<ul style="list-style-type: none"> ■ 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. 	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Using a memory card below Class 4 may result in slower recording times. 	<ul style="list-style-type: none"> ■ Use a memory card with write Class higher than 4 to improve performance.
Cannot write to the memory card	<ul style="list-style-type: none"> ■ The memory card has been locked. 	<ul style="list-style-type: none"> ■ Release the write lock of the memory card or replace with another card.
Too many movies to process	<ul style="list-style-type: none"> ■ The number of pictures or folders in the memory card exceeds the specifications, so the playback of data folder can not be displayed. 	<ul style="list-style-type: none"> ■ Delete unwanted files.



When shooting with stacked filters attached, the corners of the photo may turn dark (vignetting effect) because the filter holder blocks light from reaching the camera image sensor; especially, at wide angle zoom control settings. Please take test shots and review the results when using stacked filters.

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