KODAK PIXPRO FZ102
DIGITAL CAMERA

User Manual
Before You Start

Declaration of Conformity
Responsible Party: JK Imaging Ltd.
Address: JK Imaging Ltd. 17239 So. Main Street, Gardena, CA 90248 USA
Company website: kodakpixpro.com

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 camera 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.

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.

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All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners.

This manual will instruct you on how to operate the KODAK PIXPRO Digital Camera. JK Imaging has made every effort to ensure the correctness of the user manual contents, but reserves the right to modify as necessary. All of these contents are subject to change without prior notice.

Throughout this manual, the following symbols are used to help you locate information quickly and easily:

- Indicates useful information.

The following symbols may be used throughout this manual. This is to facilitate your understanding of how to operate the camera:

[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 help prevent dust or sand from entering the camera, causing possible damage.
- Do not use or store the camera in a hot environment or in direct sunlight.
- Do not use or store the camera near powerful magnetic fields, 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 immediately, remove the battery and the memory card and dry it completely within 24 hours.
- When you take the camera from a cold environment to a warmer environment, condensation may occur. Please wait for a reasonable period of time before you turn the camera 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 cleansers or solvents.
- Use a professional lens cleaning cloth and appropriate cleaner to wipe and clean the lens.
- Download your photos and remove the memory card when you are going to store the camera for long periods of time.
- If this camera is not in use for a long period of time, please keep it in a dry and clean storage location.
- Our company will not pay compensation for any failure of playback including: pictures or videos damaged or rendered unrecoverable 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 immediately. 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 your 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 foreign 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 safe, dry place that is not accessible to infants and children.
- In colder environments, the performance of the battery could be noticeably reduced.
- When you install the battery, align the battery markings according to the positive and negative markings on the battery compartment. Never force the battery into the battery compartment.
Safety Notes for Memory Cards

- We highly suggest buying only well-known, name brand memory cards to ensure peak performance and reliability.
- 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 and photo/video files could be permanently damaged.
- Do not directly edit the data on the memory card. Copy the data to your computer before you edit the files.
- When the camera is stored for long periods of time, be sure to download your photos and remove the memory card. Store the memory card 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 permanent 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 playback.
- When you insert the memory card, make sure the notch of the card matches the markings on the top of the camera 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.

- When using your camera on an airplane, observe the relevant rules specified by the airline and FAA regulations.

- Due to the limitations of manufacturing technology, the LCD 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 camera’s LCD to water. In a humid environment, only wipe it with a soft, dry cleaning cloth.

- If the LCD screen is damaged, pay particular attention to the liquid crystal in the screen. If any of the following situations arise, take the recommended immediate action indicated below:
  
  1. If liquid crystal comes in contact with your skin, please wipe with a clean, dry cloth. Wash thoroughly with soap and rinse with plenty of clean water.

  2. If liquid crystal gets into your eye, flush the eye immediately with plenty of clean water for at least 15 minutes and then seek medical assistance.

  3. If liquid crystal is swallowed, immediately rinse your mouth thoroughly with clean water and induce vomiting. Seek medical assistance.
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<td>65</td>
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</tbody>
</table>
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 first or our customer service center. (Based on sales in different countries or regions, the shape of the AC adapter will vary. Please subject to the actual product will prevail.)

- Rechargeable Li-ion Battery
- AC Adapter
- Micro USB Cable
- Wrist Strap
- Quick Start Guide
- Warranty Card
- Service Card
Part Names

1. Micro USB Port
2. Zoom Lever
3. Shutter Button
4. Power Button
5. AF Assist Beam/Self-Timer Lamp
6. Flash Lamp
7. Lens
8. Microphone
9. Indicator Lamp
10. Fast Video Recording Button
11. Mode Button
12. [DISP.] Display Button/Arrow Button (Up)
13. [Flash] Flash Button/Arrow Button (Right)
14. Set Button
15. Playback Button
16. Battery Cover Door
17. [Trash] Delete Button/Arrow Button (Down)
18. Menu Button
20. Tripod Socket
21. Speaker
22. LCD
1. Open the battery cover door.

2. Insert the battery into the battery compartment according to the negative and positive directions as illustrated in the picture. Push the battery down until it locks in place.
3. Insert the memory card into the memory card slot as shown in the diagram below:

4. Close the battery cover.

A 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 door, gently press the memory card to eject it and remove it carefully.
Charging the Battery

Please insert the battery and charge it under shutdown mode.

1. Connect the camera and the power charger using the supplied Micro USB cable.
2. Insert the plug of the power charger into the power outlet to charge the battery.
3. When the camera is turned off, you can also connect the camera to your PC using a Micro USB cable to charge the battery.

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

Charging indicator:
- Steady orange: Charging. The indicator lamp will go out once charging is finished.

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

Please charge the battery indoors between 0°C and 40°C (32°F and 104°F).

The camera will only charge while it is powered off. If the camera is turned on while connected to power, normal camera functions will be available for use, but the camera will not charge until it is turned off.
Turning Camera On and Off

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

How to Take Pictures

1. Hold the camera with both hands being careful not to block the flash and lens with fingers.
2. Point the lens toward the object you want to take a picture of, 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 halfway to focus on the subject. When the focus frame turns green, press the shutter button down completely 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 direction buttons to select your desired language.
3. After you press the SET button to confirm your language selection, the Date/Time settings screen will appear.
4. Press the left/right button to select the Date/Time to be adjusted: Time is displayed in YYYY.MM.DD/HH:MM.
5. Press the up/down button to adjust the value for the desired Date/Time.
6. Press the SET button to confirm the time settings and the snapshot screen will appear.
Resetting your Language

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

1. Press the button, press the up/down button to select . Press the button to enter the menu.

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

3. Press the up/down button to select [Language] and press the button or right button to enter the menu.

4. Press the direction buttons to select your desired language and press the button to confirm.

5. Press the button and the snapshot screen will appear.
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 and press the up/down button to select . Press the button to enter the menu.

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

3. Press the up/down button to select [Date & Time] and press the button or right button to enter the menu.

4. Press the left/right button to select the Date/Time to be adjusted: Time is displayed in YYYY.MM.DD/HH:MM.

5. Press the up/down button to press the value for your selected entry. After you finish your settings, press the button to confirm.

6. Press the button and the following snapshot screen will appear.
Mode Overview

LCD Screen Display

Overview of the Screen Icons in Photo Shooting Mode

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Number</th>
<th>Icon Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shooting Mode</td>
<td>8</td>
<td>Number of Remaining Shots</td>
</tr>
<tr>
<td>2</td>
<td>Macro Mode</td>
<td>9</td>
<td>Image Size</td>
</tr>
<tr>
<td>3</td>
<td>Zoom Display (By Turning the Zoom Lever)</td>
<td>10</td>
<td>Video Quality</td>
</tr>
<tr>
<td>4</td>
<td>Memory Card/Built-in Memory</td>
<td>11</td>
<td>ISO Value</td>
</tr>
<tr>
<td>5</td>
<td>Battery Status</td>
<td>12</td>
<td>Remaining Recording Time</td>
</tr>
<tr>
<td>6</td>
<td>White Balance</td>
<td>13</td>
<td>Exposure Compensation</td>
</tr>
<tr>
<td>7</td>
<td>Color Effect</td>
<td>14</td>
<td>Focus Frame</td>
</tr>
<tr>
<td>8</td>
<td>Number of Remaining Shots</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Image Size</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Video Quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>ISO Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Remaining Recording Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Exposure Compensation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Focus Frame</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Shutter Speed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Histogram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Continuous Shot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Expo Metering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Self-Timer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>AF Mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Flash Mode</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Overview of the Screen Icons in Movie Mode

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Movie Mode</td>
<td>6</td>
<td>Battery Status</td>
<td>11</td>
<td>Focus Frame</td>
</tr>
<tr>
<td>2</td>
<td>Macro Mode</td>
<td>7</td>
<td>Color Effect</td>
<td>12</td>
<td>Expo Metering</td>
</tr>
<tr>
<td>3</td>
<td>Self-Timer</td>
<td>8</td>
<td>Video Quality</td>
<td>13</td>
<td>AF Mode</td>
</tr>
<tr>
<td>4</td>
<td>Zoom Display (By Turning the Zoom Lever)</td>
<td>9</td>
<td>Remaining Recording Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Memory Card/Built-in Memory</td>
<td>10</td>
<td>Exposure Compensation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Using the Mode Button

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

<table>
<thead>
<tr>
<th>Mode Name</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Mode</td>
<td>📷</td>
<td>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.</td>
</tr>
<tr>
<td>Manual Mode</td>
<td>📷</td>
<td>This mode is for manually setting EV, shutter speed and ISO value.</td>
</tr>
<tr>
<td>Portrait Mode</td>
<td>🖼️</td>
<td>The best setting for portrait shooting, enables AE/AF for faces. The camera is set to automatically adjust exposure for realistic capture of skin tones.</td>
</tr>
<tr>
<td>Movie Mode</td>
<td>🎞️</td>
<td>Record videos.</td>
</tr>
<tr>
<td>Panorama Mode</td>
<td>🏛️</td>
<td>In this mode, up to 4 frames can be stitched together to create a single panoramic photo.</td>
</tr>
<tr>
<td>Scene Mode</td>
<td>SCN</td>
<td>Choose from 21 different pre-set scene types and effects for your photos.</td>
</tr>
</tbody>
</table>
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 button to select panorama mode ( ).
2. Press the direction buttons to select a desired shooting direction. Should you not select a direction, the default shooting direction is “right”. 2 seconds later, the camera is ready to take pictures. You can also press the button or press the shutter button halfway down 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 and align 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 button, the camera will automatically stitch the pictures together. Press the playback button to enter playback mode to see the effect.
6. If you take 4 pictures, the camera will automatically stitch the pictures together. Press the Playback button to enter Playback mode to see the finished effect.
In Panorama Mode, 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. Press the down button ( homelessness) to cancel shooting and delete the previously taken pictures.

**Scene Mode SCN**

You can select your desired scene from the 21 preset modes according to the type of environment you are shooting in. The camera then automatically configures the most appropriate settings for the best possible photos.

1. Press the MOD button to select Scene Mode (SCN). The LCD will display a menu like the example below:

![Scene Mode Menu](image)

2. Press the direction buttons to select a scene and press the SET button to confirm.

3. If any need of changing the scene, please press the MOD button and then the SET button and finally the direction buttons to reselect the scene.
<table>
<thead>
<tr>
<th>Scene</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Scene</td>
<td>Identifies the scene automatically; Person, Backlighting, Landscape, Macro, Night Scene, Night Scene Person and Auto.</td>
</tr>
<tr>
<td>Landscape</td>
<td>For landscapes and outdoor shots. Vivid reproduction of greens and blues.</td>
</tr>
<tr>
<td>Sport</td>
<td>For fast-moving subjects. Captures sharp, action shots with minimal blur. This mode is not recommended for shooting indoors.</td>
</tr>
<tr>
<td>Beach</td>
<td>For taking pictures in areas with strong sunlight.</td>
</tr>
<tr>
<td>Sunset</td>
<td>For sunsets. Captures subjects in strong sunlight.</td>
</tr>
<tr>
<td>Fireworks</td>
<td>For fireworks at night. Slower shutter speed is adjusted for brilliant images. The use of a tripod is recommended with this setting.</td>
</tr>
<tr>
<td>Night Landscape</td>
<td>For night scenes. The use of tripod is recommended with this setting.</td>
</tr>
<tr>
<td>Snow</td>
<td>For snowy conditions. Reproduces natural clear, white scenes.</td>
</tr>
<tr>
<td>Children</td>
<td>Turns flash off automatically. Avoids disturbing subject, and is suitable for taking photos of children.</td>
</tr>
<tr>
<td>ID</td>
<td>For shooting ID size photos. (It is recommended to print using 6-inch 4R (6x4) photographic paper).</td>
</tr>
<tr>
<td>Glass</td>
<td>For objects behind transparent glass.</td>
</tr>
<tr>
<td>Photo Frame</td>
<td>For adding interesting frame effects to the photo.</td>
</tr>
<tr>
<td>Scene</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Panning Shot</td>
<td>Suitable for capturing fast moving objects to have a clear subject with a blurred background.</td>
</tr>
<tr>
<td>Fish Eye</td>
<td>For an interesting fish eye effect.</td>
</tr>
<tr>
<td>Party</td>
<td>Suitable for taking indoor party pictures, even under complicated lighting conditions.</td>
</tr>
<tr>
<td>Indoor</td>
<td>For indoor settings. Reduces blur and improves color accuracy.</td>
</tr>
<tr>
<td>Leaf</td>
<td>For plants. Captures brilliant shots of greenery and blossoms.</td>
</tr>
<tr>
<td>Museum</td>
<td>For museums or flash-free areas. Retains color and reduces blur.</td>
</tr>
<tr>
<td>Night Portrait</td>
<td>For portraits against night scenery.</td>
</tr>
<tr>
<td>Sketch</td>
<td>For taking photos with pencil sketch effect.</td>
</tr>
<tr>
<td>Anti-shake</td>
<td>Digital Image Stabilization takes clear pictures in the handheld state.</td>
</tr>
</tbody>
</table>
Auto Scene Mode (ASCN)

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

“ASCN” can intelligently detect the following scenes:

<table>
<thead>
<tr>
<th>Mode Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landscape Mode</td>
<td>For landscapes, automatically adjusts the exposure and reproduces vivid green and blue colors.</td>
</tr>
<tr>
<td>Portrait Mode</td>
<td>Most suitable for capturing people with focus on their faces.</td>
</tr>
<tr>
<td>Night Portrait</td>
<td>When you take portraits at night, or in low light conditions, automatically adjusts the exposure for people and night scenes.</td>
</tr>
<tr>
<td>Backlit Portrait</td>
<td>When the sun or any other light source is behind you, automatically adjusts the foreground exposure to produce the best pictures possible.</td>
</tr>
<tr>
<td>Night Landscape Mode</td>
<td>For night scenes, automatically increases the ISO value to compensate for low light.</td>
</tr>
<tr>
<td>Macro Mode</td>
<td>The Macro setting is ideal for shooting small objects or close-up photos.</td>
</tr>
<tr>
<td>Auto Mode</td>
<td>The camera automatically adjusts the exposure and focus to ensure the best possible pictures.</td>
</tr>
</tbody>
</table>
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 on 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.
Display Setting

Press the **DISP.** 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
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 button ((currentUser) to enter the macro menu.

2. Press the left/right button 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 3 cm).

3. Press the SET button to confirm the settings and enter the shooting screen.
Self-Timer Setting

Use this function to take pictures at preset intervals. The camera shutter speed can be set to 2 seconds, 10 seconds or Smile Detection.

1. Press the left button ( 꼬 꼵 ) and then press the down button ( 꼴 ) to enter the self-timer menu.
2. Press the left/right button 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 enter the shooting screen.

- When enabling the self-timer, pressing the shutter or the ( 꼴 ) button can disable the self-timer and return to the shooting screen without 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. Pop up the flash manually as shown below (as shown in the figure).

2. Press the right button (⑧) to enter the flash settings menu.

3. Press the left/right button to select one of 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.

4. Press the set button to confirm the settings and enter the shooting screen.
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 button to select the Setting options.
3. Press the up/down button to adjust the option values.
4. Press the SET button to confirm the settings and enter the shooting screen.

Exposure Compensation

Set up exposure compensation to adjust the picture brightness. If there is very high contrast between the photographed object and the background, the brightness of the picture can be adjusted as necessary. (This can be adjusted 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)

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 help you more clearly capture fast moving objects, while low shutter value can better show the movement of objects. (Adjustable in M Mode)

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

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

Once you are finished, press the button or the shutter button to stop recording. The camera will store the video and return to the shooting screen.
Overview of the Screen Icons in Playback Mode

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DPOF File</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>File Protection</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>Memory Space (Indicating the Current Number of Photos and Total Number of Photos)</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>Memory Card/Built-in Memory</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>Battery Status</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>6</td>
<td>Zoom Magnification Area</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 internal memory or on the Memory Card.
3. To play a selected video clip, press the 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.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Increase Volume</td>
</tr>
<tr>
<td>2</td>
<td>Pause</td>
</tr>
<tr>
<td>3</td>
<td>Fast Forward</td>
</tr>
<tr>
<td>4</td>
<td>Decrease Volume</td>
</tr>
<tr>
<td>5</td>
<td>Rewind</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Back to the Beginning of the Video</td>
</tr>
<tr>
<td>7</td>
<td>Play</td>
</tr>
<tr>
<td>8</td>
<td>Play Video Forward</td>
</tr>
<tr>
<td>9</td>
<td>Cancel Playback</td>
</tr>
<tr>
<td>10</td>
<td>Play Video Backward</td>
</tr>
</tbody>
</table>
Thumbnail View

When in Playback Mode, rotate the Zoom lever counter to the W position to display thumbnail images of the photos and videos on the screen.

1. Slide the zoom lever to switch between 3x3 and 4x4 thumbnails.

2. Press the direction buttons to select a picture or video clip to view and press the set button to restore it to the original size.

When the icon ❯ appears, it means this is a video file.
Using Zoom Playback (for still pictures only)

When playing back photos, you can also use the zoom lever to zoom in on the photos at 2 to 8 times their original magnification.

1. Press the button to switch to playback mode.
2. Press the left/right button to select a picture on which to use the zoom feature.
3. Rotate the zoom lever to to zoom in.
4. The screen will display the number of times the image is magnified and area of the photo zooming operation.
5. Press the direction buttons to navigate and select a portion of the image to be zoomed in on.
6. Press the button to return the image to its original scale.

Movie images cannot be magnified.
This setting allows you to view all the stored images as a slideshow.

1. Press the button to enter playback screen.
2. Press the 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.

Slide playing function supports movie playing.

Images don’t rotate in the slideshow playback.
Photos and Video Deletion

In Playback Mode, press the down 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 button to select the photos and videos to be deleted.
3. Press the down button (⬇️) and the deletion screen is displayed.
4. Press the up/down button to select [Delete One] or [Exit] and press the SET button to confirm.

Erased photos/video clips cannot be recovered.

Please refer to page 61 for instructions on deleting more than one image at a time.
Using the Menus

Shooting Menu

Functions that can be enabled are different under each mode.

Mode:  

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

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

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

- 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 camera's 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 photo image quality.

White Balance Setting
The white balance setting allows you to adjust the color temperature for different lighting scenes to ensure the most accurate color reproduction.

The larger the number of recorded pixels, the larger the file size and the fewer files that can be saved on your memory card.
Continuous AF

Use the Continuous AF setting to be able to continuously focus automatically when taking pictures.

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

• Cont. AF: Off
• Cont. AF: On
Focus Setting
In different photo shooting modes, you can select different focus methods.

- **Single-AF**
  The focus frame appears on the center of the LCD to help you focus on the subject.

- **Multi-AF**
  The camera automatically focuses the subject in a wider area to find the focus point.

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.

- **Single**
- **Continuous Shot**
- **3 Shots**
- **Time-Lapse 30sec**
- **Time-Lapse 1min**
- **Time-Lapse 5min**
- **Time-Lapse 10min**
The flash is disabled in the continuous shooting in order to achieve quick succession of shots.

Color Effect

The image color setting allows you to select different effects.

1. In photo shooting mode, press the button to enter the shooting menu.

2. Press the up/down button to select the image color setting menu, press the SET button to enter the menu.

3. Press the left/right button to select the image color setting options.

- Normal
- Vivid
- Sepia
- Black and White
- Options in the shooting mode (○: Available  ×: Unavailable)

<table>
<thead>
<tr>
<th>Options</th>
<th>Shooting Modes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>📸</td>
</tr>
<tr>
<td>📸</td>
<td>○</td>
</tr>
<tr>
<td>📸 16M</td>
<td>○</td>
</tr>
<tr>
<td>📸 +</td>
<td>○</td>
</tr>
<tr>
<td>📸 -</td>
<td>○</td>
</tr>
<tr>
<td>📸 (</td>
<td>○</td>
</tr>
<tr>
<td>📸 AUTO</td>
<td>×</td>
</tr>
<tr>
<td>📸 ASCN</td>
<td>×</td>
</tr>
</tbody>
</table>
Shooting Setting Menu

Mode: 

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 the up/down button to select , and press the button or right button to enter the menu.

4. Press the up/down button to pick the item to be selected and press the button or right button to enter the menu.

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

Quality

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

- 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, the AF assist beam setting can be turned on for better focus.

- Off
- On

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

- Off
- On
**Date Imprint**
Include a Date/Time stamp on the photo image.

**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.

- Off
- Date
- Date / Time
- 1 sec
- 2 sec
- 3 sec
Face Detection
For detecting and focusing on faces to make all faces as clear as possible in Photo Mode.

1. Hold the camera steadily and then focus on your subject to detect their face. A focus frame will appear around the face when a face is detected.

2. Press the shutter button half-way down to focus. The LCD will show a green focus frame when the subject is in focus.

3. Press the shutter button all the way down to take pictures.

The Closed Eyes Detection is usually on. If the camera detects in the course of quick review there is a face with eyes closed, a prompt of closed eyes will appear.

1/50 F2.9

F2.9 1/50
Movie Menu

Mode: 

1. Press the Mode button, select the movie mode and press the button to enter the movie menu.
2. Press the up/down button to select the movie menu to be set.
3. Press the left/right button to select the movie menu to be set and press the SET button to confirm.

Expo Metering

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

- 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 camera's field of view.
**Video Quality**

Set the image resolution used during video recording.

![Video Quality Setting](image)

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Image Pixel</th>
<th>Frame</th>
<th>Recommendation</th>
<th>Recording time (4GB) About</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1280x720 *</td>
<td>30</td>
<td>Class 4</td>
<td>20 Minutes</td>
</tr>
<tr>
<td>2</td>
<td>1280x720</td>
<td>15</td>
<td>Class 4</td>
<td>33 Minutes</td>
</tr>
<tr>
<td>3</td>
<td>640x480</td>
<td>30</td>
<td>Class 4</td>
<td>30 Minutes</td>
</tr>
</tbody>
</table>

* 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.

Please go to the official APP website to download Quick Time 7.X as the Preferred player for .MOV files.
Color Effect
The image color setting allows you to select different effects.

1. Press the SET button to select the Image color setting menu.

2. Press the left/right button to select the image color setting options.

- Normal
- Vivid
- Sepia
- Black and White
Movie Setting Menu

Mode:

1. Press the button, and select to enter the video recording screen.

2. Press the button, press the up/down button to select , and press the button to enter the menu.

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

4. Select the items to be set and press the button or the right button to enter the menu.

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

Digital Zoom

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

- Off
- On
Playback Menu

Mode:

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

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

☑️: HDR
☒: Cancel
Red-Eye Reduction 🕶
You can use this setting to reduce the red-eye of the picture.

✔️: Red-Eye Reduction
❌: Cancel

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

🔄: Turn Right
↺: Turn Left
❌: Cancel

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.

![Resize to 1024x768](image)

- **1024**: Resize to 1024x768
- **640**: Resize to 640x480
- **X**: Cancel

Only for adjusting pictures with high resolution to those with low resolution.

---

**Color Effect**

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.

![Color Effect](image)

- **X**: Cancel
- **V**: Vivid
- **S**: Sepia
- **B**: Black and White
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 the up/down button to select and press the button or right button to enter the menu.

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

5. Press the up/down 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.

- 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.

Delete
You can delete one or all photo/video files.

- One: Delete one photo or video.
- All: Delete all photos or videos.

The “ protección” indicator means a file is protected. File protection must be removed before a file can be deleted.

Deleting files will cause DPOF settings to be reset.

Deleted files will be permanently deleted and will not be able to be recovered or restored.
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.

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

1. Select [Yes] to confirm trim. Select a section of the photo to be trimmed using the zoom lever and direction buttons to trim a photo.

2. 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 printer that supports DPOF is needed for photo printing.

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

Mode: 

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

Refer to the following pages for more details about each setting.
Sound Settings
With this setting you may adjust the sound volume.
Press the left/right button to adjust the volume and 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. Turn the LCD and camera off automatically after a consecutive period of inactivity.

- Auto
- Normal
- Best

<table>
<thead>
<tr>
<th>Power Saver</th>
<th>LCD Power Off Time</th>
<th>Turn Off Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>3 Min</td>
<td>5 Min</td>
</tr>
<tr>
<td>Normal</td>
<td>1 Min</td>
<td>3 Min</td>
</tr>
<tr>
<td>Best</td>
<td>30 s</td>
<td>1 Min</td>
</tr>
</tbody>
</table>
Language
Refer to the “Reset your language” section on page 19.

World Time
The world time 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. Press the up/down to select the departure place ( home ) and destination ( globe ) fields.
2. Press the left/right button 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 “Reset Date/Time” section on page 20.

LCD Brightness
Use this setting to adjust the brightness of your LCD.
File Setting

Mode:

1. Press the \[ \] button, press the up/down button to select \[ \] and press the \[ \] button to enter the menu.

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

4. Press the up/down button to select the item to be set and press the \[ \] button or right button to enter the menu.

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

Format

Please note: formatting enables you to delete all contents on the memory card and camera’s built-in memory, including protected photo and movie files.

- 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, only the memory card will be formatted.
Copy to Card
Use this setting to copy the files stored in the built-in memory to a memory card.

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 0001.

If there is no card available in the camera, this function will not be displayed.
**Reset**
Use this setting to restore the camera to its original default settings.

**Firmware (FW) Version**
Use this setting to view the current camera firmware version.

When there is a new firmware version in the memory card, select [Yes] to update.
Connection Settings

Connecting to a Computer

You can use a Micro 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 used to connect to 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 button to select and press the ** button to enter the menu.
2. Press the up/down button to select and press the ** button or right button to enter the menu.
3. Press the up/down button to select [USB] and press the ** button or right button to enter the menu.
4. Press the up/down 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 Micro USB cable to the USB port on your camera
3. Connect the other end of the Micro USB cable to an available USB port on your computer
4. After the transmission is complete, disconnect the Micro USB cable according to your computer manufacturer's instructions specifying how to safely remove USB devices
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 Micro 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 compatible printer.

1. Press the button, press the up/down button to select and press the button to enter the menu.
2. Press up/down button to select and press the button or right button to enter the menu.
3. Press the up/down button to select [USB] and press the button or right button to enter the menu.
4. Press the up/down button 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 “Using the PICTBRIDGE™ Menu” section on page 73.
Connecting to your Printer

1. Make sure the printer is turned on.
2. Connect one end of the supplied Micro USB cable to the USB port on your camera.
3. Connect the other end of the Micro USB 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 Micro USB cable, check the USB mode settings, ensure that the printer is turned on, and then try connecting the Micro USB cable again.
Using the PICTBRIDGE™ Menu

After setting the USB mode to Printer, the PICTBRIDGE™ menu will appear.

Press the up/down button to select a menu item and press the SET button or right 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 button to select a photo to be printed.
3. Press the up/down button 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 printing; select [Cancel] and press the SET button 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 button to select the photo to be printed.

3. Press the up/down button to select the number of copies for the currently displayed photo.

4. Press the SET button and the following screen will appear.
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.

5. Select [Yes] and press the SET button to confirm printing; select [Cancel] and press the SET button to cancel printing.

2. Select [Yes] and press the SET button to confirm printing; select [Cancel] and press the SET button to cancel printing.
Print DPOF Images
To use DPOF printing, you must select your photos for printing using the DPOF settings before hand. See “DPOF” section on page 62.

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 printing; select [Cancel] and press the SET button 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 Micro USB cable from the camera and printer.
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 button to select and press the button to enter the menu.
2. Press the up/down button to select and press the button or right button to enter the menu.
3. Press the up/down button to select [TV-System] and press the button or right button to enter the menu.
4. Press the up/down button to select [NTSC] or [PAL] and press the 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 will change accordingly based upon the selected language.
## Product Specifications

Design and specifications are subject to change without notice.

<table>
<thead>
<tr>
<th>Image Sensor</th>
<th>Type</th>
<th>1/2.3&quot;CCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Pixels</td>
<td>16.15 Megapixels</td>
<td></td>
</tr>
<tr>
<td>Total Pixels</td>
<td>16.44 Megapixels</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lens</th>
<th>Focal Length</th>
<th>4.5mm (Wide) — 45mm (Tele)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35mm Film Equivalent</td>
<td>25mm (Wide) — 250mm (Tele)</td>
<td></td>
</tr>
<tr>
<td>F number</td>
<td>F3.6 (Wide) — F6.7 (Tele)</td>
<td></td>
</tr>
<tr>
<td>Lens Construction</td>
<td>8 Groups 8 Elements</td>
<td></td>
</tr>
<tr>
<td>Optical Zoom</td>
<td>10x</td>
<td></td>
</tr>
<tr>
<td>Focusing Range</td>
<td>Normal: (Wide) 60cm ~ ∞ (Tele) 200cm ~ ∞ Macro: 3cm ~ ∞ (Wide Only)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Autofocus System</th>
<th>TTL Autofocus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Handshake</td>
<td>Digital Image Stabilization</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>6x Digital Zoom (Combined Zoom: 60x)</td>
</tr>
<tr>
<td>Number of Recording Pixels</td>
<td>Still Image</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| **(4:3)**                  | 16MP: 4608×3456  
10MP: 3648×2736  
5MP: 2592×1944  
3MP: 2048×1536  
0.3MP: 640×480 | 1280×720 (15/30fps), 640×480 (30fps) |
| **(3:2)**                  | 14MP: 4608×3072 |       |
| **(16:9)**                 | 12MP: 4608×2592  
2MP: 1920×1080 |       |

**Image Compression**  
Best, Fine, Normal

**DCF, DPOF (Ver1.1) Support**  
Yes

**File Format**  
Still Image: Exif 2.3 (JPEG)  
Movie: MOV [Image: Motion JPEG; Audio: G.711 (Monaural)]

**Shooting Modes**  
Auto Mode, Manual Mode, Portrait Mode, 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, Fish Eye, Party, Indoor, Leaf, Museum, Night Portrait, Sketch, Anti-shake

**Detection Features**  
Face, Smile, Blink

**Red-Eye Removal**  
Yes

**HDR**  
Yes (Post-Processing)
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panorama</td>
<td>Up to 180° (Horizontal)</td>
</tr>
<tr>
<td>LCD Display</td>
<td>2.7inch (230k Pixels)</td>
</tr>
<tr>
<td>Image Auto Rotation</td>
<td>Yes</td>
</tr>
<tr>
<td>ISO Sensitivity</td>
<td>Auto, ISO80/100/200/400/800/1600</td>
</tr>
<tr>
<td>AF Method</td>
<td>Single AF, Multi-AF (TTL 9-point), Face-Detection</td>
</tr>
<tr>
<td>Exposure Metering Method</td>
<td>Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE</td>
</tr>
<tr>
<td>Exposure Control Method</td>
<td>Program AE (AE-Lock Available)</td>
</tr>
<tr>
<td>Exposure Compensation</td>
<td>±2EV in 1/3 Step Increments</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>1/2000 ~ 4 Seconds (Manual: 30 Seconds)</td>
</tr>
<tr>
<td>Continuous Shooting</td>
<td>Yes</td>
</tr>
<tr>
<td>Playback Modes</td>
<td>Single Photo, Index (9/16 Thumbnails), Slide Show</td>
</tr>
<tr>
<td></td>
<td>Zoom (Approx. x2~x8)</td>
</tr>
<tr>
<td>White Balance Control</td>
<td>AWB, Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual WB</td>
</tr>
<tr>
<td>Feature</td>
<td>Details</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Flash</td>
<td>Pop-up (Manual)</td>
</tr>
<tr>
<td>Recording Media</td>
<td>Internal Memory: Approx. 8MB</td>
</tr>
<tr>
<td></td>
<td>SD/SDHC Card (Up to 32GB Support) (MMC Card Not support)</td>
</tr>
<tr>
<td>Multi-Language Support</td>
<td>27 Languages</td>
</tr>
<tr>
<td>Jacks</td>
<td>AV-OUT/USB 2.0 (Micro 5 pin USB)</td>
</tr>
<tr>
<td>Power</td>
<td>Rechargeable Li-ion Battery LB-052, 3.7V 890mAh, In-Camera Charging</td>
</tr>
<tr>
<td>Shooting Capability (Battery Performance)</td>
<td>Approx. 210 Shots (Based on CIPA Standards)</td>
</tr>
<tr>
<td>Operation Environment</td>
<td>Temperature: 0 ~ 40°C, Humidity: 0 ~ 90%</td>
</tr>
<tr>
<td>Dimensions (W×H×D)</td>
<td>Approx. 113.3×74.0×44.8mm (Based on CIPA Standards)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 208g (Body Only)</td>
</tr>
</tbody>
</table>
## Prompts and Warning Messages

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning! Battery exhausted.</td>
<td>The camera battery is depleted. It is a warning indicating that the camera is going to shut off.</td>
<td>Charge the battery.</td>
</tr>
<tr>
<td>Lens obstruction, Re-start Camera.</td>
<td>The lens is jammed or some foreign object is preventing the lens from functioning properly.</td>
<td>Turn the camera off and restart it to reset the lens.</td>
</tr>
<tr>
<td>Suggest using tripod.</td>
<td>The message will appear when shooting in low light/illuminated scenes.</td>
<td>Use of a tripod or other support is suggested.</td>
</tr>
<tr>
<td>Battery temperature is too high.</td>
<td>The battery temperature reaches 58°C.</td>
<td>Let the battery cool before attempting to use the camera again. The message will disappear after 2 seconds.</td>
</tr>
<tr>
<td>Built-in memory error!</td>
<td>An error has occurred in the internal memory.</td>
<td>Format the internal memory.</td>
</tr>
<tr>
<td>Slow shutter is on: may easily cause overexposure.</td>
<td>When the B shutter is on, the prompt appears on the screen after you go back to the photo shooting screen.</td>
<td>This message will disappear after 2 seconds.</td>
</tr>
<tr>
<td>Message</td>
<td>Description</td>
<td>Action</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Improper alignment. Please try again.</td>
<td>The offset is too big for panorama shooting.</td>
<td>This message will disappear after 2 seconds.</td>
</tr>
<tr>
<td>Connection Failed!</td>
<td>In the case of failing to connect to a PC or a printer.</td>
<td>Remove transmission line to stop connection, and the message is removed.</td>
</tr>
<tr>
<td>Warning! Do not turn off your camera during update!</td>
<td>This message appears during the firmware update process.</td>
<td>This message disappears after the camera update and restart.</td>
</tr>
<tr>
<td>Remove USB Cable!</td>
<td>Indicates that you can disconnect the Micro USB cable.</td>
<td>This message disappears after you disconnect the Micro USB cable.</td>
</tr>
<tr>
<td>Write Protect !</td>
<td>The memory card is locked.</td>
<td>Unlock the write-protect switch of the memory card.</td>
</tr>
<tr>
<td>Card Full !</td>
<td>Indicates that the memory card is full.</td>
<td>Insert a new memory card or delete unwanted images.</td>
</tr>
<tr>
<td>Message</td>
<td>Description</td>
<td>Action</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Memory Full !</td>
<td>Indicates that the internal memory is full.</td>
<td>Insert a new memory card or delete unwanted images.</td>
</tr>
<tr>
<td>Card Error !</td>
<td>The memory card cannot be recognized after being formatted.</td>
<td>Insert a new memory card or format the card with this camera.</td>
</tr>
<tr>
<td>Card is not</td>
<td>The inserted memory card is unformatted or has been formatted on a computer</td>
<td>This message will disappear after 2 seconds and enter the formatting</td>
</tr>
<tr>
<td>formatted.</td>
<td>or other device and is not compatible with this camera.</td>
<td>process.</td>
</tr>
<tr>
<td>Slow Access</td>
<td>When a memory card lower than Class 4 is used to record a HD movie, the</td>
<td>Use an memory card with Class 4 or higher.</td>
</tr>
<tr>
<td></td>
<td>writing speed will be slower and recording will not continue.</td>
<td></td>
</tr>
<tr>
<td>No Red-Eye Detected!</td>
<td>Red eyes have not been detected in the image.</td>
<td>This message will disappear after 2 seconds.</td>
</tr>
<tr>
<td>Message</td>
<td>Description</td>
<td>Action</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>This image cannot be edited.</td>
<td>The file format does not support editing or the edited file cannot be edited again.</td>
<td>This message will disappear after 2 seconds.</td>
</tr>
<tr>
<td>Exceeded maximum folder number.</td>
<td>The archives or file folders in the memory card have reached the maximum (9999 for archives, 999 for file folder).</td>
<td>Copy the images to your PC and format the memory card with this camera.</td>
</tr>
<tr>
<td>Too many pictures for quick processing.</td>
<td>During the playback by date, the images exceed specifications so that it is not possible to play by date.</td>
<td>This may be solved by deleting unnecessary images.</td>
</tr>
<tr>
<td>Unable to recognize files.</td>
<td>The format of the file to be viewed is not supported or the file is corrupted so it cannot be properly read.</td>
<td>You may be able to play it back on another brand of camera or on your computer.</td>
</tr>
<tr>
<td>No Picture!</td>
<td>When you press the Play button, no image files exist in the camera or memory card.</td>
<td>This message disappears 2 seconds later to return to the photo shooting screen.</td>
</tr>
<tr>
<td>Protected! Undeletable!</td>
<td>The file is protected. This message appears when you attempt to delete it.</td>
<td>Unprotect the file before deleting.</td>
</tr>
</tbody>
</table>
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible causes</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera does not turn on</td>
<td>■ The battery has been depleted.</td>
<td>■ Recharge the battery.</td>
</tr>
<tr>
<td></td>
<td>■ The battery is not inserted correctly.</td>
<td>■ Correctly reinstall the battery.</td>
</tr>
<tr>
<td>Camera turns off suddenly during operation</td>
<td>■ The batteries have been depleted.</td>
<td>■ Recharge the battery.</td>
</tr>
<tr>
<td>The picture is blurred</td>
<td>■ Camera shakes while taking a picture.</td>
<td>■ Turn on OIS feature.</td>
</tr>
<tr>
<td>Images and video files cannot be saved</td>
<td>■ The memory card is full.</td>
<td>■ Use another memory card or delete unnecessary files.</td>
</tr>
<tr>
<td></td>
<td>■ The memory card is locked.</td>
<td>■ Unlock the memory card.</td>
</tr>
<tr>
<td>Images will not print from the connected printer</td>
<td>■ The camera is not connected to the printer correctly.</td>
<td>■ Check the connection between the camera and printer.</td>
</tr>
<tr>
<td></td>
<td>■ The printer is not PICTBRIDGE™ compatible.</td>
<td>■ Use a PICTBRIDGE™ compatible printer.</td>
</tr>
<tr>
<td></td>
<td>■ The printer is out of paper or ink.</td>
<td>■ Load paper into the printer or replace the ink cartridge in the printer.</td>
</tr>
<tr>
<td></td>
<td>■ The printer paper is jammed.</td>
<td>■ Remove the jammed paper.</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Causes</td>
<td>Solution</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Saving data to memory card is slow</td>
<td>Using a memory card below Class 4 may result in slower recording times.</td>
<td>Use a memory card with write Class 4 or higher than 4 to improve performance.</td>
</tr>
<tr>
<td>Cannot write to the memory card</td>
<td>The memory card has been locked.</td>
<td>Release the write lock of the memory card or replace with another card.</td>
</tr>
<tr>
<td>Too many movies to process</td>
<td>The number of pictures or folders in the memory card exceed the specifications, so the playback of data folder cannot be displayed.</td>
<td>Delete unwanted files.</td>
</tr>
<tr>
<td>The flash 🌟 flashes on the LCD screen.</td>
<td>Current shooting environment requires flash.</td>
<td>Turn on flash.</td>
</tr>
</tbody>
</table>