

# Kodak

# PIXPRO SPZ1

Digital Camcorder

## User Manual



# PRECAUTIONS

## Preface

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

### Copyright

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### About this manual

This manual provides you with instructions on how to use your KODAK PIXPRO Digital Camcorder. 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.

### Symbols used in this manual

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



Indicates important information.



Indicates precautions to be taken while operating the digital camcorder.

## WARNING

### For Customers in the U.S.A.


#### Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

#### FCC Statement

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 digital camcorders are intended for sales in Europe.



This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the European countries. Please do not throw the equipment into the trash. Please recycle this and other electronics responsibly.

## **Declaration of Conformity**

Responsible Party: JK Imaging Ltd.

Address: JK Imaging Ltd., 17239 South Main Street,  
Gardena, CA 90248, USA  
JK Imaging Europe, 71 Clarendon road, Watford,  
WD17 1DS, UK

Company Website: [www.kodakpixpro.com](http://www.kodakpixpro.com)

# SAFETY PRECAUTIONS

## Digital Camcorder Notes

- Do not store or use the digital camcorder in the following types of locations:
  1. In direct sunlight for a long period of time or high temperature (beyond 40°C);
  2. In environments with high magnetic fields;
- If the digital camcorder will not be used for a long period of time, we suggest you download photos and remove the memory card to prevent losing photos and videos.
- If the digital camcorder is taken from a relatively cool environment (lower than 40°C), and placed in a warmer or more humid atmosphere, condensation may occur within the device. We suggest you wait for the unit to warm to room temperature before turning on the digital camcorder.
- JK Imaging is not responsible for any loss of data.

## Memory Card Notes

- When using a new memory card, or a memory card has been initialized by a computer, you might have to format the card if the camera does not recognize it. Please back up any data on the card as the formatting will erase all data on the card.
- Do not directly edit the data on the memory card. Copy the data to your computer before you edit them.
- Do not change or delete the folder names or file names on the memory card from your computer, to avoid causing unrecognizable files in the original folder or file in your digital camcorder.
- Only remove and insert a memory card when the camera is off, as data loss and/or corruption may occur.
- When inserting a memory card, make sure the notch of the card matches the markings on the top of the card slot.

## LCD Screen Notes

- Due to current LCD manufacturing technology, you may see a few light or dark pixels on your LCD. This is normal.
- These light or dark pixels will not affect the quality of the photo or video images you capture.
- If the LCD screen is damaged, take particular care with 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, wash thoroughly with soap and running water.
  2. If liquid crystal gets into your eye, flush the eye with clean water for at least 15 minutes and then seek immediate medical assistance.
  3. If liquid crystal is swallowed, flush your mouth thoroughly with water and induce vomiting. Seek medical assistance immediately.

## **Please read the following important information carefully before using the product**

- Do not disassemble or attempt to service the digital camcorder yourself.
- Improper handling may damage the product and will void the warranty.
- Turn the digital camcorder off before inserting or removing the a memory card.
- Avoid touching the digital camcorder lens.
- Do not expose the digital camcorder lens to direct sunlight for extended periods of time.
- Do not use abrasive cleansers, alcohol-based, or solvent based cleaners to clean the digital camcorder body. To clean, wipe the digital camcorder lens with a professional lens cleaning cloth and special cleaning agent made for cameras and electronics.

## Functions and Notes

### **Waterproof/Dustproof/Shockproof/Freezeproof**

- The digital camcorder meets JIS/IEC waterproof grade 8 (IPX8) and JIS/IEC dustproof grade 6 (IP6X).  
Height for shockproof rating is 1.5m.  
Suitable temperature range for freezeproof capability is -10°C~40°C
- The accessories included with the this digital camcorder are not for use in wet conditions.

### **Precautions Before Using**

- Please make sure that the Micro SD cover and HDMI/USB interface cover (hereinafter referred to as “interface cover”) are locked securely.
- The rubber mating surfaces on the covers and doors should be clean and free of foreign matter to insure a tight seal.
- Units with damaged rubber waterproofing should not be used in wet conditions.
- Do not use this digital camcorder in a geothermal spring.
- When using this digital camcorder in water, a wrist strap is highly recommended.

### **Precautions When Using**

- Do not use the digital camcorder below 5 meters underwater.
- Do not use the digital camcorder under water for more than 2 hours.
- Avoid dropping the digital camcorder suddenly into water. The Micro SD card cover or interface cover may be open or not closed securely. Always check your digital camcorder carefully before taking it near water.
- Do not open the Micro SD cover or interface cover underwater.
- If the digital camcorder cannot be turned on due to extenuating circumstances, please contact our customer service center for help.

## Maintenance Precautions After Using

- Wipe the digital camcorder with a clean, dry, lint free cloth.
- When the Micro SD cover or interface cover is opened, after underwater use, there may be water drops on the inside of the Micro SD cover or interface cover.
- After using the digital camcorder in the water or near sand, mud or other foreign materials, please rinse it with clean water (don't open the Micro SD card cover or interface cover when cleaning). After cleaning, wipe out the digital camcorder with a clean, dry, lint free cloth.
- To help ensure the camera's waterproof ability, wipe off any dust, sand or other foreign material from the rubber gaskets and corresponding interface areas.
- Don't use any chemical solvents or agents to clean the camera. Do not use silicone conditioners on the rubber.



Damaged rubber, waterproof gaskets with cracks or scratches will allow water or other elements to penetrate the camera. Contact customer service for assistance with replacement of parts or the digital camcorder itself.



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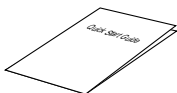
# GETTING STARTED

## Accessories

Your package should contain the digital camcorder model you purchased along with the items below. If anything is missing or appears to be damaged, please contact our customer service department immediately.



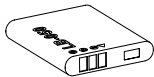
Warranty Card



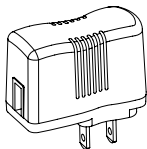
Quick Start Guide



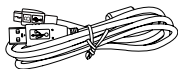
Service Card



Rechargeable  
Lithium-Ion Battery



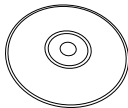
AC Adapter



USB Cable

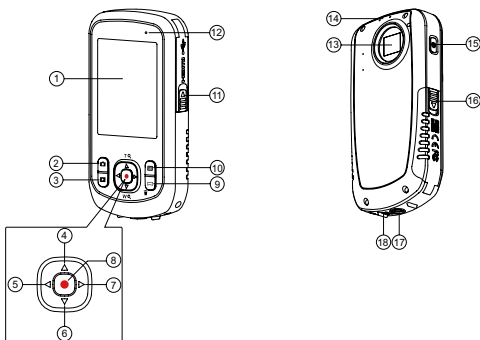


Wrist Strap



CD-ROM

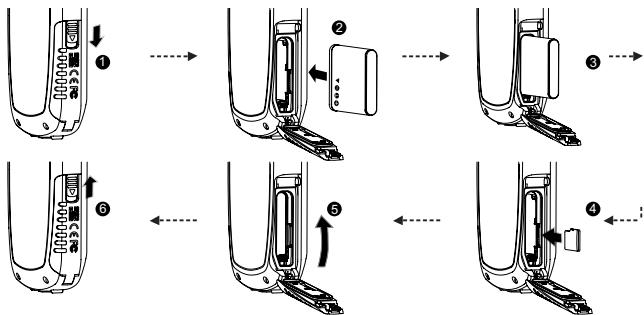
## Part Names



1	LCD Screen	10	Menu Button
2	Shooting Button	11	USB/HDMI Card Slot Switch
3	Playback Button	12	Status Indicator
4	Arrow Button (Up) / Zoom In Button	13	Lens
5	Arrow Button (Left) / Image Color	14	Microphone
6	Arrow Button (Down) / Zoom Out Button	15	Power Switch
7	Arrow Button (Right) / Image Pixel	16	SD Card Slot Switch
8	OK Button / Record Button	17	Tripod Socket
9	Panorama Button / Delete Button	18	Speaker

## Installing Battery and Memory Card

1. Open SD Card Cover according to ① ;
2. Install battery according to ② and ③.
3. Install Micro SD card according to ④.
4. Close SD Card Cover according to ⑤ and ⑥.



After opening the buckle on the Micro SD Card Cover according to the arrow direction shown in the figure ① , Micro SD Card Cover will pop open. To remove Micro SD card, gently press it down to pop it out.



Optional Micro SD/Micro SDHC cards are not included in the accessories and must be purchased separately.



When selecting Full HD size (1920X1080, 1440X1080) to record video, please use a High Speed Card (above Class 6).

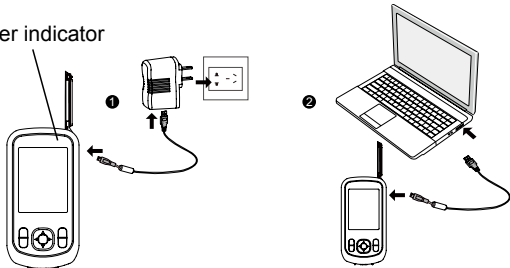


When taking video, if “Memory card accessing is slow” on the LCD screen, please select High Speed Card or format this card, then take video.

## Charging Battery

This digital camcorder can be charged by the following two methods:

Power indicator



1. Use the USB cable to connect the digital camcorder with the adapter see figure ①;

Charging Indicator:

Red: Charging

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

2. Use the USB cable to connect the digital camcorder to your computer see figure ②.

Charging Indicator: (Red: Charging; Green: Charging complete)



To ensure maximum battery life, charge the battery for at a minimum of 4 hours the first time.



Charge battery only when the digital camcorder is turned off.



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

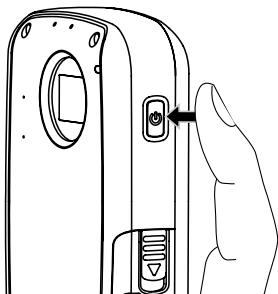


If the battery is stored for a long period of time, use the supplied power charger to recharge the battery prior to use.



## Turning On/Off



Press the Power button to turn the digital camcorder on/off.



## Setting Language and Date/Time
















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

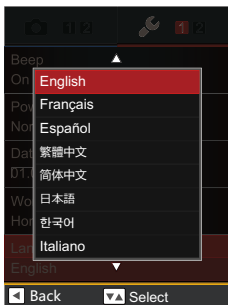
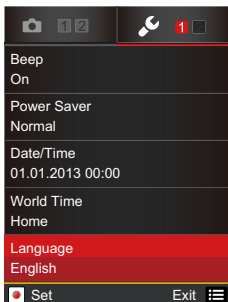
---

1. When the digital camcorder is turned on by pressing the power button for the first time, the digital camcorder will enter language setting screen.
2. Press ▲▼ to select language.
3. After pressing  button to select desired language, the digital camcorder will enter date/time setting screen.
4. Press ▲▼ to select and choose field: month, day, year, hour and minute.
5. Press ◀▶ to adjust value in the selected field.
6. Press  button to determine time setting, the digital camcorder will enter shooting screen.

## Resetting your Language



















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

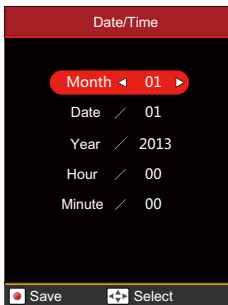
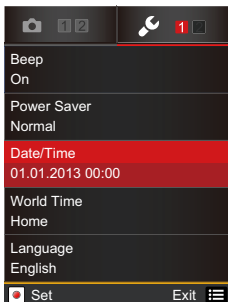
1. Press  button to enter Func menu.
2. Press   to select  menu.
3. Press  button to enter Setting interface.
4. Press   to select  menu;  
Press   to select [Language]
5. Press  button to enter Setting interface.
6. Press   to select language.
7. Press  button to confirm, press  button to return to shooting screen.



## Resetting Date/Time

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

1. Press  button to enter Func menu.
2. Press   to select  menu.
3. Press  button to enter Setting interface.
4. Press   to select  menu; Press   to select [Date/Time]
5. Press  button to enter Setting interface.
6. Press   button to select function option, Press   button to select setting value; or press  button to return to shooting screen.
7. Press  button to save the setting, press  button to return to shooting screen.





Date format is: M-D-Y;  
Time format is: 24 hour format

# BASIC OPERATION



## Movie Recording



This function can take movies.

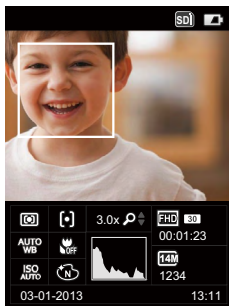
1. Press Power button to turn the digital camcorder on.
2. Press  button to begin taking video.
3. Press  button to end the video shooting.

## Zoom Function

---

Press   button to zoom in or zoom out:

-  : Zoom in
-  : Zoom out



## Image Pixel

---

Set the image resolution desired during video recording.

Press **▶** to enter Image Pixel Menu, the following options are available:

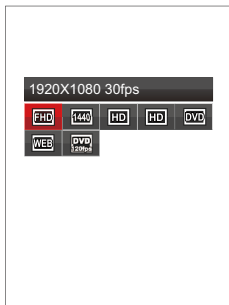
- 1920×1080 30fps \*
- 1440×1080 30fps \*
- 1280×720 60fps \* • 1280×720 30fps \*
- 640×480 30fps • 320×240 30fps
- 640×480 120fps



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



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



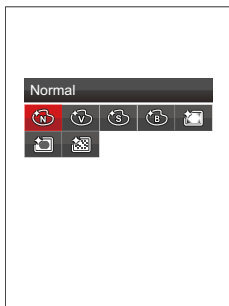
## Image Color

---

Image color setting for video recording.

Press **◀** to enter Image Color Menu, the following options are available:

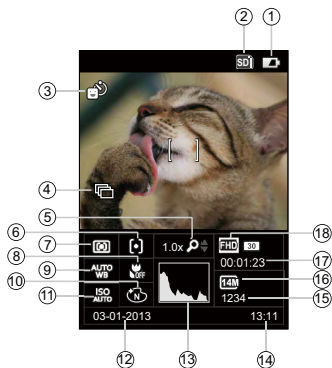
- Normal
- Vivid
- Sepia
- Black and White
- Vignetting
- Salon
- Dreamy



# LCD Screen Display


## Shooting Screen

1. Battery Status Indicator
2. Memory Card
3. Self-Timer
4. Continuous Shot
5. Zoom Display
6. Focusing
7. Metering
8. Macro Mode
9. White Balance
10. Color
11. ISO
12. Shooting Date
13. Histogram
14. Shooting Time
15. Remaining Number of Pictures
16. Image Resolution
17. Remaining Video Time
18. Video Resolution



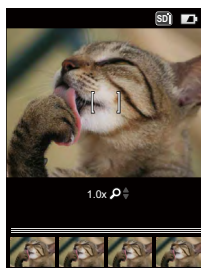
## DISPLAY

---

In the shooting mode, use DISP in the  to temporarily remove some screen icons. The two options below will appear to select one.



DISP On




DISP Off



## Video Recording

1. Zoom Level
2. Duration of recording/video shooting time.
3. Display for shooting still pictures while recording
4. The number of photos that have been taken
5. The number of available photos remaining
6. Battery status indicator



During the process of recording video, press  button to take photos.

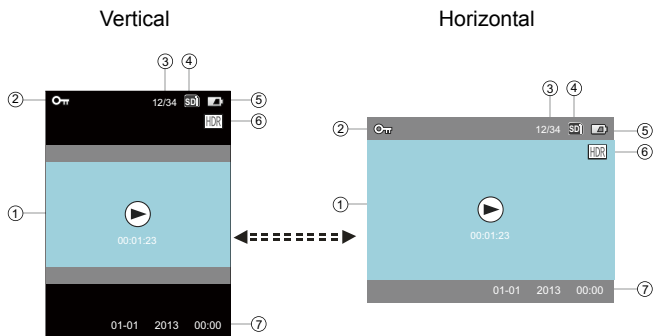


During use of this function, the number of shots is limited by the file size of the single frames.

Animation image quality	Corresponding still image quality	Number of shots available
1920×1080: 30fps	1920×1080	6
1280×720: 60fps	1280×720	10
1280×720: 30fps	1280×720	12
1440×1080: 30fps	1440×1080	8
640×480: 30fps	640×480	48
640×480: 120fps	640×480	40
320×240: 30fps	320×240	60

# Playback

---






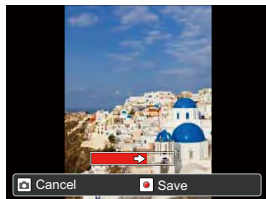
1. Animation/Film length
2. File Protection
3. Ranking order/number of the current photos
4. SD Memory Card/Built-in Memory Video file reminder display
5. Battery Status Indicator
6. HDR (High Dynamic Range)
7. Shooting Date and Time






## Video Panorama Mode

You can use Video Panorama Mode to take consecutive photos. The digital camcorder will automatically combine them to a super wide angle panorama photo.

Follow the steps below:

1. Press  button to enter video panorama mode.
2. Press direction button to select shooting direction (the default direction is Right), it will automatically enter shooting mode after 2 seconds. Pressing  button can enter the shooting mode immediately.
3. Press  button to take a single photo, then the video panorama mode progress box will show on the camera screen.
4. Press the setting direction to move or rotate the digital camcorder. When moving or rotating range meets the setting value, the progress box with an arrow will turn red and blink. When the progress box turns completely red, it indicates the video panorama shooting is complete.
5. The digital camcorder will automatically stitch the photos into a panoramic photo, then preview for 2 seconds after finishing stitching.









-  Only horizontal mode can be used for video panorama shooting.
-  During video panorama shooting, press  button to pause shooting and save the current picture. Press  button to cancel shooting without saving the previous picture.
-  During video panorama shooting, when moving direction or angle of the digital camcorder deviates from the setting value, a warning message [Improper alignment. Please try again.] will appear on the LCD, and the digital camcorder will save the current photo and return to the shooting mode.

# PLAYBACK

## Preview Photos and Videos

You can view photos and videos either vertically or horizontally when in playback mode.


1. Press  button.
2. Vertical: Press   button to select the previous /next photo /video;  
Horizontal: Press   button to select the previous /next photo / video.
3. Play the selected video, press  button to enter the playback mode.







## Video

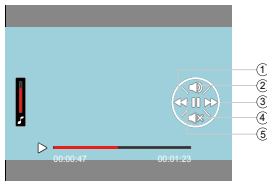
In the playback mode, each button description is shown as follows:






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

When playing videos, the operation guide will appear on the screen. Press  button to play or pause.

While the video is playing, press  button to fast forward the video, or press  to fast rewind it.








In the Pause Screen, press  button to switch to the previous frame photo; press  button to switch to the next frame photo.

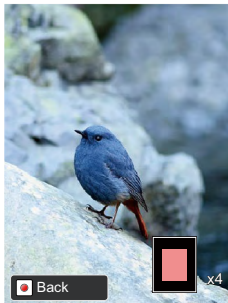


-  When playing in Video Mode, press **▶** button to return to the Playback screen.
-  In the Pause screen, press **▼** button to return to Playback screen.
-  In Playback mode, only the first frame is displayed on the video.
-  Fast Forward display: x2 / x4 / x8 / x16  
Fast Rewind display: x2 / x4 / x8 / x16.
-  When the digital camcorder is turned off, press **▶** button for 2 seconds to turn it on, and enter the Playback mode.

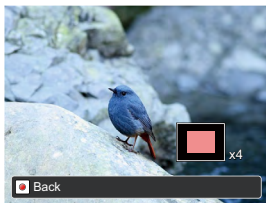
## Zoom In Photos

In the playback mode, using  can magnify the photo up to 4X.

1. Press  button to return to the Playback Mode.
2. Vertical: Press  button to select a photo; Horizontal: Press  button to select a photo.
3. Press  button to magnify photos up to 4x See note below.
4. Press   button to move the position of display area.
5. Press  button again to return to the Playback screen (the original size).



Zoom function can only be used on still images. It is not possible on video playback.



## Screen Display in the Playback Mode

Pressing **▶** button displays the following modes (the picture is displayed in horizontal position):

### Playback Screen:

When shooting, press **▶** button to return to the Playback Mode; press **📷** button to return to the Shooting Screen.

### Thumbnail:

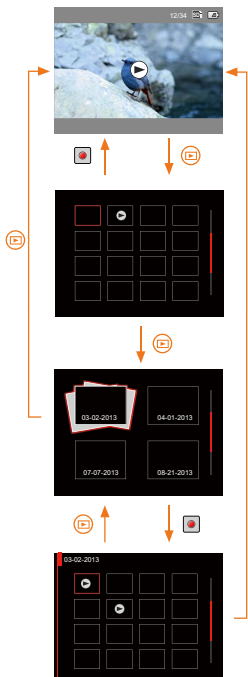
When in the playback mode, press **▶** button, 4x4 thumbnails will display on the screen, press **▲▼◀▶** buttons to select the photo or video to be viewed.

### Date Folder:

When in Thumbnail mode, press **▶** button, the thumbnails will be sorted by shooting date; or press **▶** button to return to the Playback screen.

### Date Folder Thumbnail:


When the Date Folder is displayed on the screen, press **⊙** button to enter the Date Folder Thumbnails (only photos in the Date Folder are displayed); or press **⊙** again to return to the Playback Screen.









## Delete Photos and Videos


---

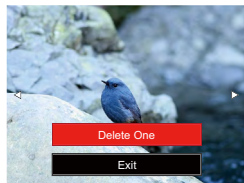
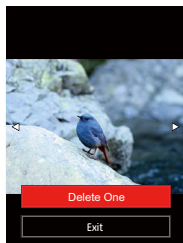
In the Playback Mode (Playback Screen / Thumbnail / Date Folder / Date Folder Thumbnail) Mode, pressing  button will delete the current selected photo/video.

1. Press  button to return to the Playback Mode (Playback Screen / Thumbnail / Date Folder / Date Folder Thumbnail).
2. Press  button to select the photo/video to be deleted.
3. Press  button to display the information to be deleted on the screen.
4. Press  button to select Delete one or Exit:

[Delete one] : Deletes the current selected photo/video;

[Exit] : Returns to the previous screen.



5. Press  button to save setting and return to Playback Mode.









Erased photos/videos cannot be recovered.

# MENU SETUP

## FUNCTION Menu

Mode:  

1. Press  button to enter FUNCTION Menu.
2. Press   to select menu.
3. Press   to select an option in the menu.
4. Press  button to confirm.



## Exposure Metering

This specifies the area of the picture that the camera uses to correctly expose the picture.

3 options are available:

- Expo Metering: Spot
- Expo Metering: Center
- Expo Metering: AiAE



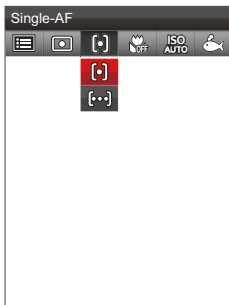
## Focus Setting

---

Focusing options can be selected in this mode.

2 options are available:

- Single-AF
- Multi-AF



## Macro Mode

---

The Macro Mode Setting is ideal for shooting small objects or closeup photos. This mode allows you to focus on subjects very close to the camera.

2 options are available:

- Macro Off
- Macro On



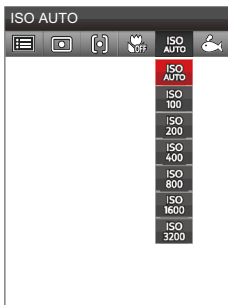
## ISO

---

ISO selections allow you to set the sensitivity of the digital camcorder sensor, to make the digital camcorder's shutter speed in dark environments. A higher ISO value is required in darker places, while a lower ISO value is recommended in bright conditions.

7 options are available:

- ISO AUTO
- ISO 100
- ISO 200
- ISO 400
- ISO 800
- ISO 1600
- ISO 3200



## White Balance Setting

---






The White Balance Setting allows you to adjust the color temperature for different lighting sources to ensure the most accurate color reproduction.

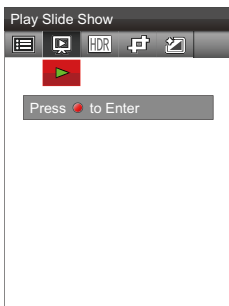
6 options are available:

- AWB
- Daylight
- Cloudy
- Fluorescent
- Incandescent
- Underwater



## Mode:

1. Press  button to enter the Playback Mode.
2. Press  button to enter Function Menu.
3. Press   to select Function Menu.
4. Press  button to confirm.

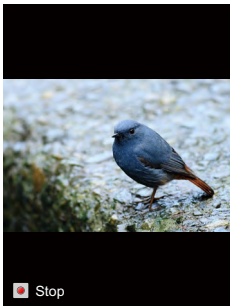


## Slideshow

---

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

-  Press  button again to stop playing.



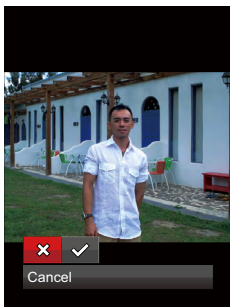
## HDR (High Dynamic Range) Setting

---

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.

2 options are available:

- Cancel
- HDR



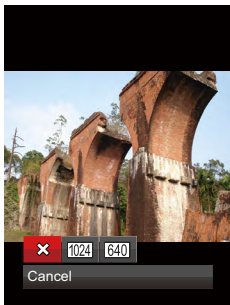
## Resize

---

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

3 options are available:

- Cancel
- Resize to 1024x768
- Resize to 640x480



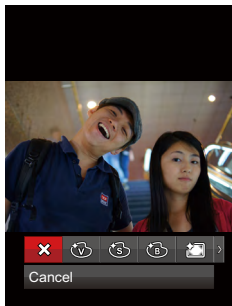
## Color Effect

---

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.

















8 options are available:

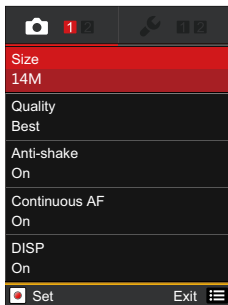
- Cancel
- Vivid
- Sepia
- Black and White
- Vignetting
- Salon
- Grainy
- Dreamy



## Photo Setup

Mode:   

1. Press  button to enter Function Menu.
2. Press   to select  menu.
3. Press  button to enter Setting interface.
4. Press   to select  menu.
5. Press   to select an option in the menu.
6. Press  button to enter the setting interface of selected option.
7. Press   button to select function option, press  button to confirm and return to the menu; press  button to return to the menu or press  button to return to the shooting screen.





## 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.

7 options are available:

- 14M : 4320×3240
- 12M-3:2 : 4320×2880(3:2)
- 10M-16:9 : 4320×2432(16:9)
- 5M : 2592×1944
- 3M : 2048×1536
- 2M-16:9 : 1920×1080(16:9)
- VGA : 640×480



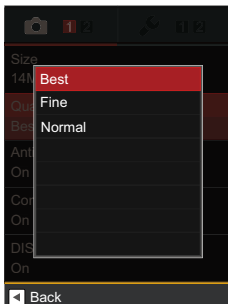
## Quality

---

The Image Quality Menu adjusts the compression ratio of the images. Higher quality settings yield better photos, but will take up more memory space.

3 options are available:

- Best
- Fine
- Normal



## VIS

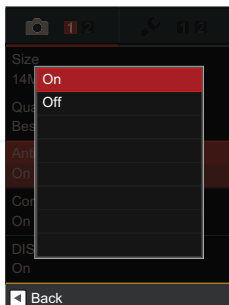
---

---

When using VIS (Video Image Stabilization) function to record video, it can improve blurry images caused by hand-held camera shaking.

2 options are available:

- On
- Off



## Continuous AF

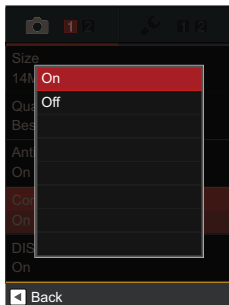
---

---

Set Continuous Auto Focus to on when taking photos.

2 options are available:

- On
- Off



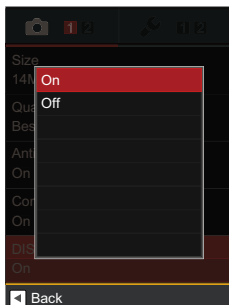
## DISPLAY

---

Using the DISP function will set the LCD screen display.

2 options are available:

- On
- Off




## Zoom

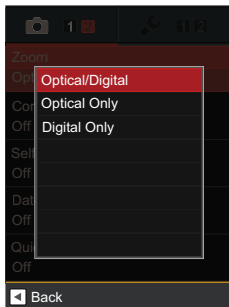
---

This option is available in the optical and digital zoom settings in shooting.

3 options are available:



- Optical/Digital
- Optical Only
- Digital Only

 When the optical zoom is started in the underwater video, there is large noise in the video, and it is recommended to use the digital zoom.



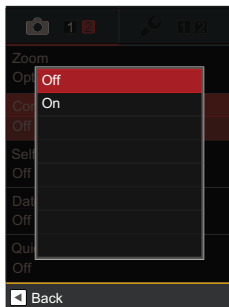
## Continuous Shot

---

Continuously hold down  button to enter the continuous shooting mode; to stop, release  button.

2 options are available:

- Off
- On



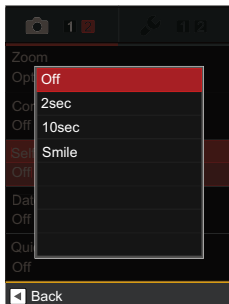
## Self-Timer

---

Using this function can take photos in timed intervals. The digital camcorder can be set to take photos via the self-timer function. Select the desired time from the options below.

4 options are available:

- Off
- 2sec
- 10sec
- Smile



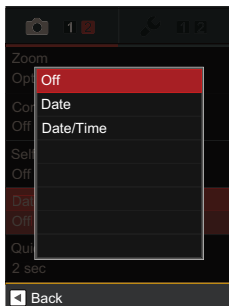
## Date Imprint

---

Saves the date and time data with the picture.

3 options are available:

- Off
- Date
- Date/Time



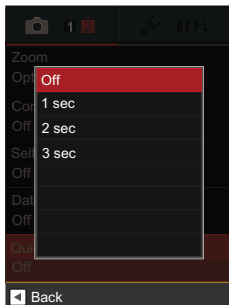
## Quick Review

---

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.

















4 options are available:

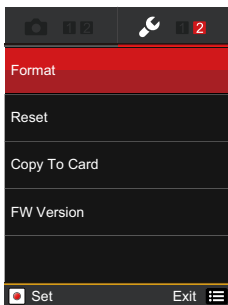
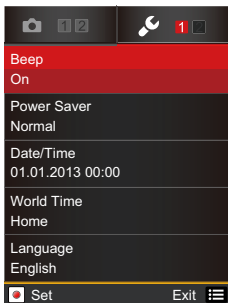
- Off
- 1 sec
- 2 sec
- 3 sec



## General Setup

Mode:   

1. Press  button to enter Function Menu.
2. Press   to select  menu.
3. Press  button to enter Setting Interface.
4. Press   to select  menu.
5. Press   to select an option in the menu.
6. Press  button to enter the setting interface of selected option.
7. Press   button to select function option, press  button to confirm and return to the menu; press  button to return to the menu or press  button to return to shooting screen.



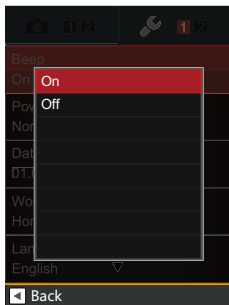
## Beep Setup

---

Use Beep Setup to adjust the volume of beep when buttons are pressed.

2 options are available:

- On
- Off



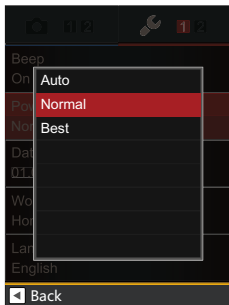
## Power Saver

---

Use the Power Saver function to prolong battery life between charges.

3 options are available:

- Auto
- Normal
- Best

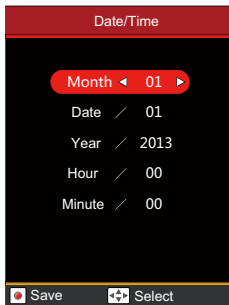


## Time Setting

---

The digital camcorder time can be set with this option.

Refer to page 19 for time setting






## World Time

---

When overseas, adjust the World Time setting to the time zone of the city nearest you.

2 options are available:

-  Location
  -  Travel Target
-  back



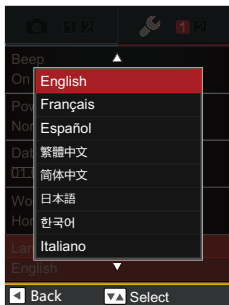


## Language Setting

---

Select this option to select different language display for the digital camcorder.

Refer to page 18 for language setting



## Format Memory

---

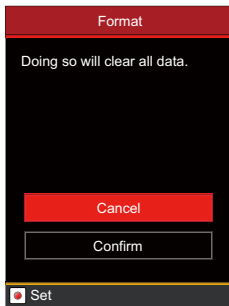
Use Format Memory function will delete all data in the storage card and internal memory.

2 options are available:

- Cancel
- Confirm



When there is no memory storage card in the camera, Format Memory will format the digital camcorder's internal memory. If there is a memory card in the camera, Format Memory will only format the memory storage card.



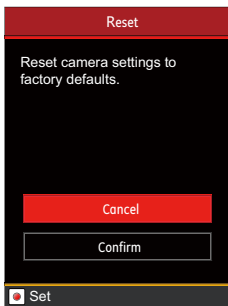
## Reset

---

Use the Reset Function to set the digital camcorder to factory default settings.

2 options are available:

- Cancel
- Confirm



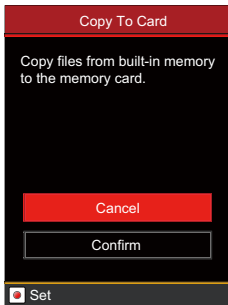
## Copy to Card

---

Use Copy to Card Function to copy the files stored in the internal memory card to storage card.

2 options are available:

- Cancel
- Confirm



## FW Version

---

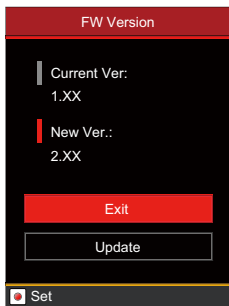
Use this option to view the current Firmware Version of the digital camcorder.

2 options are available:

- Exit
- Update (can update the version with the new version on Micro SD card)











The firmware update cannot be completed if the battery is not sufficiently charged.



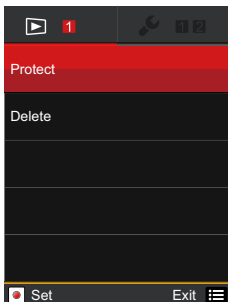
## Playback Setup

### Mode:

1. Press  button to enter the Playback Mode.
2. Press  button to enter Function Menu.
3. Press   to select  menu.
4. Press  button to enter Setting Interface.
5. Press   to select an option in the menu.

2 options are available:


- Protect
- Delete





## Protect

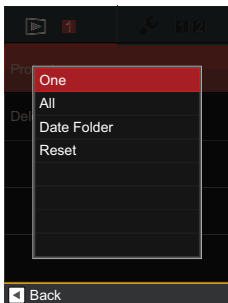
---

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

1. Press ▲▼ to select an option, press  button enter Setting Interface.

4 options are available:


- One : Lock the selected photo or video if they are unprotected; unlock the selected photo or video if they are protected.
  - All : Lock all photos or videos.
  - Date Folder : Lock photos or movies in the date folder.
  - Reset : Cancel all locked photos or videos.
2. Select Sub-Menu, press  button to confirm; and jump to the next image, press  button to return to playback screen.



## Delete

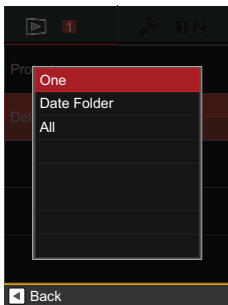
---



You can delete one or all photo/video files.

1. Press ▲▼ to select an option, press  button to enter Setting Interface.

3 options are available:

- One : Delete one photo or video.
- Date Folder : Delete all photos in the Date Folder.
- All : Delete all photos or videos.



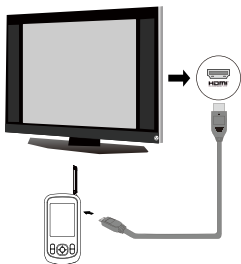
2. Select Sub-Menu, press  button to confirm; and jump to the next image, press  button to return to playback screen.

# CONNECTION

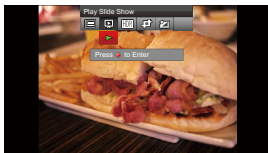
## Connecting to TV Output with HDMI

Photos and videos can be viewed on an HDTV using the HDMI interface. By connecting to your TV with an HDMI cable (sold separately) the camera will automatically enter the Playback Screen. If the connection is unsuccessful an error message will display.

If 1080i is supported, the images will display on the TV when connection is successful. If 1080i is not supported, the highest resolution supported by the TV will be selected automatically. The digital camcorder will turn off automatically after pulling HDMI cable out.






In the HDMI playback mode, Func menu is shown as following: HDMI only can display playback function, all playback functions showing on the DV also can show on the HDMI.



Enter the Playback Screen:


Press ◀▶ button to select the previous/next photo/video:

- ◀▶ : Video


Press  mode button, enter Function Menu, then press ◀▶ select slide to play  , Press  button to start / stop slide playback.




When the digital camcorder is connected with the HDTV successfully, the playback screen will display on the TV.

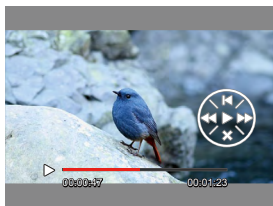
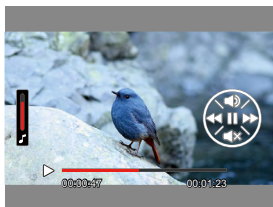
When video ( ▶ ) files appear on the Playback Screen, pressing  button will start/stop playing the video.



When playing video, the functions of ▲▼◀▶ and  are the same as playing back video in the digital camcorder (refer to P28).



When playing video, press  button to pause first, then press ▼ button to return to the Single Playback Screen.



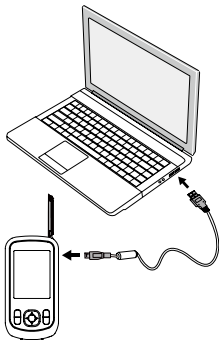


## Connecting to a Computer with USB

Copy photos and videos in the digital camcorder to a personal computer by following these steps:

1. Open USB/HDMI port cover.
2. Use USB cable to connect the digital camcorder and computer.

This digital camcorder supports (Windows 2000, WindowsXP, Windows Vista, Windows 7, Windows 8, Mac OS).



# APPENDICES

## Specifications



Design and specifications are subject to change without notice.

Active Image Sensor Pixels		14.41 Megapixels
Total Image Sensor Pixels		15.40 Megapixels [1/2.3"CMOS]
Lens	Focal Length	6.0mm (Wide) — 18.0mm (Tele)
	[35mm film equivalent]	[35mm (Wide) — 105mm (Tele)]
	F number	F2.8 (Wide) — F4.6 (Tele)
	Lens Construction	9 groups 10 elements
	Optical Zoom	3x
	Focusing Range	Normal: (Wide) 60cm ~ ∞, (Tele) 100cm ~ ∞ Macro: 10cm ~ ∞ (Wide Only)
Anti-Handshake		Yes
Digital Zoom		6x Digital Zoom (Combined Zoom: 18x)
Number of Recording Pixels	Still Image	14MP: 4320×3240, (3:2)12MP: 4320×2880, (16:9)10MP: 4320×2432, 5MP: 2592×1944, 3MP: 2048×1536, (16:9)2MP: 1920×1080, 0.3MP: 640×480
	Movie	1920×1080(30fps), 1440×1080(30fps), 1280×720(60fps), 1280×720(30fps), 640×480(30fps), 320×240(30fps)
		High-Speed Movie: 640×480(120fps)
	Still Image in Video	The resolution of still photo captured while video recording is same as video resolution

Image Compression		Best, Fine, Normal
File Format	Still Image	Exif 2.3 (JPEG)
	Movie	Movie Format: MOV (H.264), Audio: Linear PCM [Stereo]
Shooting Modes		Auto
Detection Features		Face, Smile, Blink
HDR		Yes (Post-Processing)
Panorama		0°~360°
Waterproof		Up to 5m
Shockproof		Up to 1.5m
Dustproof		Equivalent to JIS/IEC (IP6X)
Freeze-proofing		-10 °C
LCD Display		2.5inch (230k Pixels)
ISO Sensitivity		Auto, ISO 100/200/400/800/1600/3200
AF Method		Single AF, Multi-AF (TTL 9-point), Face-Detection
Exposure Metering Method		Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE
Exposure Control Method		Program AE (AE-Lock Available)
Shutter Speed		1/2000 ~ 1/4 Seconds
Continuous Shooting		Yes

Playback Modes	Single Photo, Index, Slide Show, Date
	Zoom (Approx. x4),
	FF & REW 2x/4x/8x/16x & Each Frame
White Balance Control	Auto (AWB), Daylight, Cloudy, Fluorescent, Incandescent, Underwater
Recording Media	Internal Memory: Approx. 8MB
	Micro SD / Micro SDHC Card (Up to 32GB Support) [Nonsupport MMC Card]
Other Features	Multi-Language Support (27 Languages)
Jacks	USB 2.0 (Micro 5 pin USB), HDMI (Type D)
Power	Rechargeable Li-ion Battery LB-050, 3.7V 900mAh, In-Camera Charging
Shooting Capability (Battery Performance)	Approx. 250 Shots (Based on CIPA Standards)
	Approx. 70 min for Video (@1080p/30fps )
Operation Environment	Temperature: -10 ~ 40°C, Humidity: 0 ~ 90%
Dimensions (W×H×D)	Approx. 56.6×110.6×21.7mm (Based on CIPA Standards)
Weight	Approx. 130g (Body Only)

## Error Messages

Messages	Description
Warning! Battery exhausted	<ul style="list-style-type: none"><li>• Battery is depleted, connect the camera to a power source and wait until fully charged to resume using</li></ul>
No Picture	<ul style="list-style-type: none"><li>• There are no pictures or videos on the memory card or in the camera's internal memory</li></ul>
Pull USB Out	<ul style="list-style-type: none"><li>• Remove the USB cable or connector after ensuring you have safely disconnected the hardware on your system</li></ul>
Connection Failed	<ul style="list-style-type: none"><li>• Camera is not properly connected to TV or computer. USB mode may be incorrect or USB port may be damaged. Please try again</li></ul>
File can't be recognized	<ul style="list-style-type: none"><li>• Camera cannot recognize such file format</li></ul>
Warning! Don't power off when upgrading!	<ul style="list-style-type: none"><li>• Please don't power the digital camcorder off when upgrading software</li></ul>
Software update failed	<ul style="list-style-type: none"><li>• Update for software that controls camera was not successfully installed</li><li>• Software version is incorrect. Please download latest version</li></ul>

Messages	Description
Internal memory card full	<ul style="list-style-type: none"> <li>The internal memory is full and cannot store any additional files. Copy files to computer and delete files from camera or insert a new memory card</li> </ul>
Memory card full	<ul style="list-style-type: none"> <li>Memory card is full and cannot store any new files. Copy files to computer and delete files from card or insert a new memory card</li> </ul>
Exceeded maximum folder number	<ul style="list-style-type: none"> <li>This indicates that the SD card exceeded the maximum number of folders (999). This could cause a long read time during the camera's power up. Copy the data to your PC, format the memory card.</li> </ul>
Write protection of memory card	<ul style="list-style-type: none"> <li>Memory card lock is switched to protection mode. Take out the memory card and unlock it</li> </ul>
File cannot be edited	<ul style="list-style-type: none"> <li>The file has already been edited and cannot be edited again</li> </ul>
Memory card error	<ul style="list-style-type: none"> <li>The memory card is not recognized or failed. Replace with a new memory card or format this card again</li> </ul>
The memory card is not formatted	<ul style="list-style-type: none"> <li>Format the memory card as described on page 48</li> </ul>
Battery exhausted, can't update FW	<ul style="list-style-type: none"> <li>The firmware cannot be updated without sufficient power. Charge the battery fully before attempting to update firmware</li> </ul>

## Troubleshooting

Problem	Possible causes	Solution
Digital camcorder will not turn on	<ul style="list-style-type: none"><li>• Battery low</li></ul>	<ul style="list-style-type: none"><li>• Charge battery</li></ul>
Digital camcorder turns off suddenly while in operation	<ul style="list-style-type: none"><li>• Battery is dead</li></ul>	<ul style="list-style-type: none"><li>• Charge battery</li></ul>
Photo is blurred	<ul style="list-style-type: none"><li>• Camera was not held steady when pictures were taken</li></ul>	<ul style="list-style-type: none"><li>• Suggest using a tripod</li></ul>
Cannot take photos	<ul style="list-style-type: none"><li>• Internal memory or memory card is full</li><li>• The memory card is not formatted</li><li>• Still in Playback mode</li></ul>	<ul style="list-style-type: none"><li>• Insert a new memory card, or copy files to computer and delete from memory card</li><li>• Format the memory card</li><li>• Return to shooting menu mode</li></ul>
Cannot record video	<ul style="list-style-type: none"><li>• No memory card inserted or memory card is full</li><li>• Still in Playback mode</li></ul>	<ul style="list-style-type: none"><li>• Insert a new memory card, or copy files to computer and delete from memory card</li><li>• Return to the shooting mode</li></ul>



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