

# USING THE MENUS

## Photo Setup Menu

Mode: **PSAM** **SCN CS**

1. In Photo Shooting Mode, press the  button to enter the Photo Setup menu.
2. Press the **[▲AF]/[▼▼]** button to select the item to be set.



3. Press the **[◀▶]/[◀▶]** button to select an option 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):**  
Evaluates the light intensity at multiple points in the frame and automatically determines the best value for the light meter.



**Spot:** For metering the block displayed in the center of the screen.



**Center:** For metering the object in the center of the screen.



It can be adjusted in all modes except for Panorama Mode.

## 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 sacrificing the image quality.



- **16M** Size: High quality printing
- **14M** Size: Full size printing
- **12M** Size: 16:9 display
- **10M** Size: Poster printing

- **5M** Size: A3 printing
- **3M** Size: A4 printing
- **2M** Size: 4"x 6" printing
- **VGA** Size: E-Mail



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

## OIS (Optical Image Stabilization)

This mode can help reduce photo blur caused by unsteady hands and low light.



- OIS: Off
- OIS: On

Use this image stabilization mode in dark environments.

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

It is recommended to turn off OIS when using a tripod.

## Cont. AF (Continuous Auto-Focus)

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



- Cont. AF: Off
- Cont. AF: On

## HDR (High Dynamic Range)

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



- HDR: Off
- HDR: On

In a setting with extreme contrast (very dark or very bright), this function can be used to shoot better photos.

## Beautifier

Select an effect of the Face Beautifier Mode.



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

Please refer to P37 for more detailed instructions.

## Scene

Select the scene mode under the SCN mode.



Please refer to P45 for more detailed instructions.

Shooting menu in the Photo Shooting Mode  
(O: Available X: Not Available)

| Options    | Photo Shooting Modes |          |          |          |          |   |
|------------|----------------------|----------|----------|----------|----------|---|
|            |                      | <b>P</b> | <b>S</b> | <b>A</b> | <b>M</b> |   |
|            | O                    | O        | O        | O        | O        | O |
| <b>16M</b> | O                    | O        | O        | O        | O        | O |
|            | X                    | O        | O        | O        | O        | O |
|            | X                    | O        | O        | O        | O        | O |
|            | X                    | O        | O        | O        | O        | X |
|            | X                    | X        | X        | X        | X        | O |

## Photo Shooting Settings Menu

Mode: **PSAM**  **SCN CS**

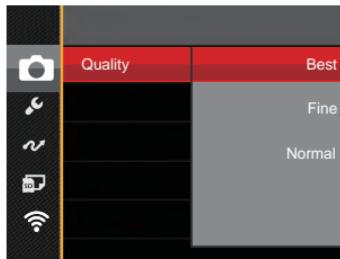
1. Press the  button in Photo Shooting Mode and press the **[▲AF]** / **[▼▼]** button to select .



2. Press the  button to enter the menu.
3. Press the **[▲AF]** / **[▼▼]** button to select  , and press the  /  button to enter the menu.
4. Press the **[▲AF]** / **[▼▼]** button to select the item to be set and press the  /  button to enter the menu.
5. Press the **[▲AF]** / **[▼▼]** button to select an option and press the  button to confirm.

## Quality

The Quality Setting can be used to adjust the image compression ratio.



There are three options for picture quality:

- Best
- Fine
- Normal

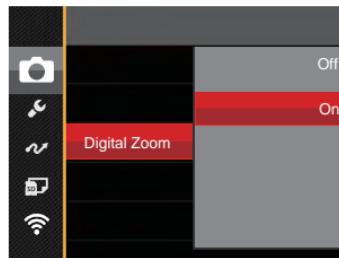
## AF Assist Beam

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



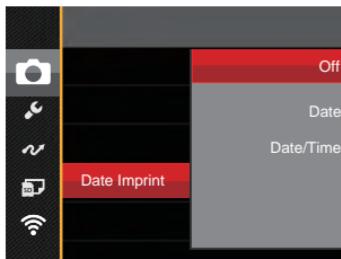
## Digital Zoom

Turn on or off the digital zoom.



## Date Imprint

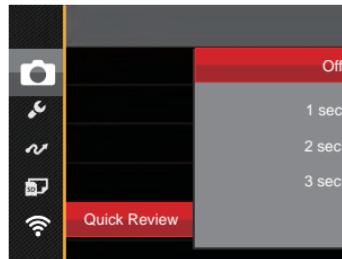
Include a Date/Time stamp on the photo image.



- Off
- Date
- Date/Time

## Quick Review

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

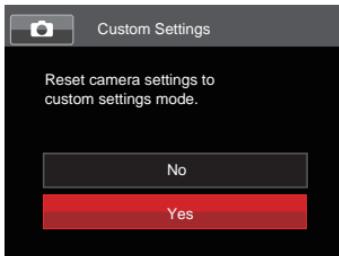


There are 4 options:

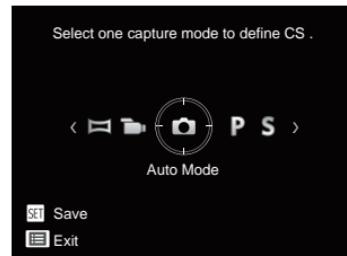
- Off
- 1 sec
- 2 sec
- 3 sec

## Custom Settings

Custom Settings stores the current photo shooting mode or scene mode and its parameters. The stored mode and parameters are retrieved in **CS** mode.



In **CS** mode, select [Custom Settings] the camera will enter the setting menu as shown below:



There are 2 options:

- No
- Yes

## Movie Menu

Mode: 

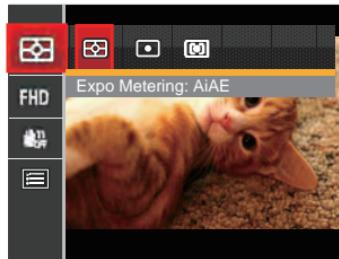
1. Rotate the mode dial to select  and press the  button to enter the Movie menu.



2. Press the **[▲AF] / [▼▼]** button to select the item to be set.
3. Press the **[◀▶] / [◀▶]** button to select an option and press the  button to confirm.

### Expo Metering (Exposure Metering)

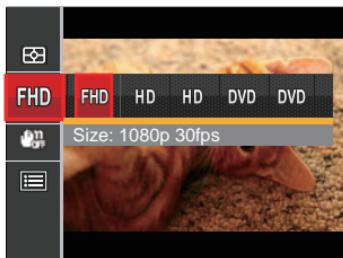
Use this setting to select the “target” size of the camera’s field of view to be metered.



-  AiAE (Artificial Intelligence AE): Evaluates the light intensity at multiple points in the frame and automatically determines the best value for the light meter.
-  Spot: For metering the block displayed in the center of the screen.
-  Center: For metering the object in the center of the screen.

## Movie Size

Set the image resolution used during video recording.



- **FHD** Size: 1080p 30fps
- **HD** Size: 720p 60fps
- **HD** Size: 720p 30fps
- **DVD** Size: 640x480 30fps
- **DVD** Size: High Speed Movie

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

| No. | Image Pixel | Frame | Recommendation | Recording time (4GB) About |
|-----|-------------|-------|----------------|----------------------------|
| 1   | 1920x1080 * | 30    | Class 6        | 30 minutes                 |
| 2   | 1280x720 *  | 60    | Class 6        | 32 minutes                 |
| 3   | 1280x720 *  | 30    | Class 4        | 59 minutes                 |
| 4   | 640x480     | 30    | Class 4        | 106 minutes                |
| 5   | 640x480     | 120   | Class 6        | 54 minutes                 |

## OIS (Optical Image Stabilization)



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



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

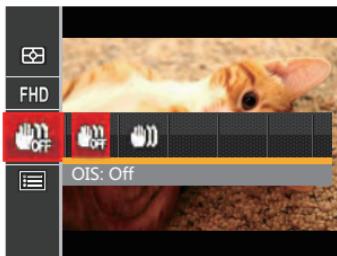


When the video format is set as 640x480 (120fps), shooting time is 30 seconds, playback time is 2 minutes.



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

This mode can help reduce photo blur caused by unsteady hands and low light.



OIS: Off



OIS: On



Use this image stabilization mode in dark environments.



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

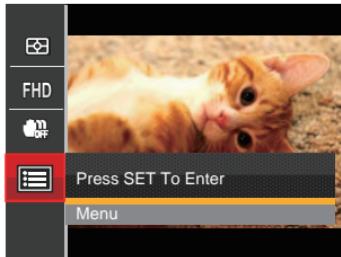


It is recommended to turn off OIS when using a tripod.

## Movie Setting Menu

Mode: 

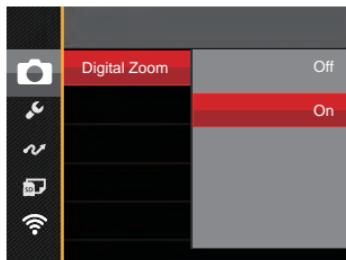
1. Rotate the Mode Dial and select  to enter the video recording screen.
2. Press the  button, press the [**▲AF**] / [**▼WB** ] button to select  , and press the  button to enter the Movie Setting menu.



3. Press the [**▲AF**] / [**▼WB** ] button to select  , and press the  / [] button to enter the menu.
4. Select the item to be set and press the  / [] button to enter the menu.
5. Press the [**▲AF**] / [**▼WB** ] button to select an option and press the  button to confirm.

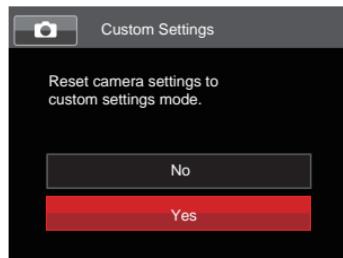
## Digital Zoom

Turn the Digital Zoom on or off.



## Custom Settings

Custom Settings stores the current movie mode and its parameters. The stored mode and parameters can be retrieved directly in **CS** mode.



## Playback Menu

Mode: 

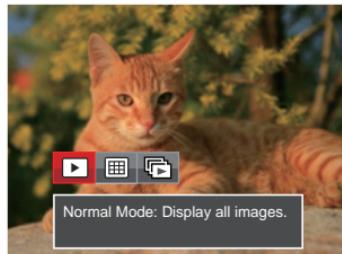
1. Press the  button to display the playback screen and press the  button to enter the menu.
2. Press the  /  button to select the item to be set and press the  button to enter.
3. Press the  /  button to select an option and press the  button to confirm.



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

## Playback Mode

Select , and press the  button to enter the settings screen:



-  **Normal Mode:** Display all images.
-  **Date Mode:** Arranged by date.
-  **Cont. Photo Mode:** Arranged by Cont. Photo Group.

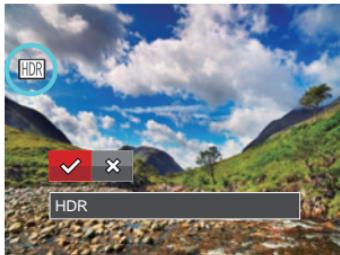
 The Date Folder is displayed in date order based on camera's Date/Time Settings.

 If there is no Continuous Shot image file in memory, Continuous Shot Playback mode cannot be enabled.

## HDR (High Dynamic Range)

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.

Select  , and press the  button to enter the settings screen:



 HDR

 Cancel

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

## Touch-Up

The playback beauty feature allows for beautification using three individual effects.

Select  , and press the  button to enter the settings screen:



 Red-Eye Reduction

 Skin Soften

 Eye Brightening

 Eye Enlargement

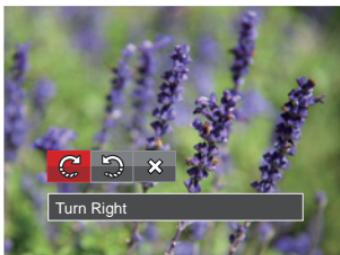
 Cancel

 Using the Face Beautifier Mode allows you to select from one, two, or all three effects combined.

## Rotate

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

Select  , and press the  button to enter the settings screen:



 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.

Select  , and press the  button to enter the settings screen:



 Resize to 1024x768

 Resize to 640x480

 Cancel

 This function can only be used to downsize photos to a lower resolution.

 Sizes of photos taken in panorama mode or rotated cannot be adjusted.

## Color

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

Press the  button to enter the settings screen:



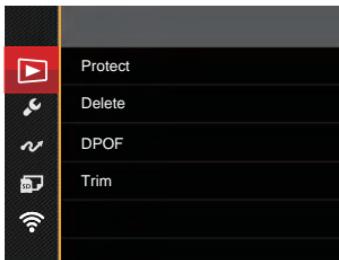
There are 19 options available:

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

## Playback Settings Menu

Mode: 

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

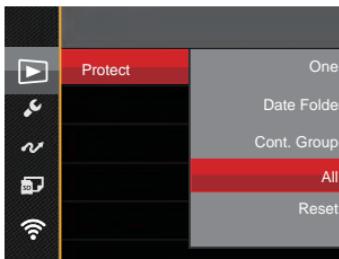


3. Press the  /  button to select the item to be set and press the  /  button to enter the menu.
4. Press the  /  button to select an option and press the  button to confirm.

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.

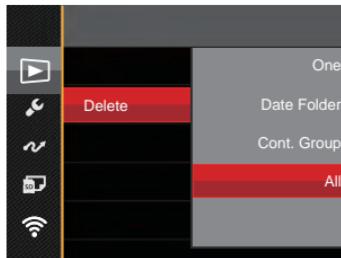


There are 5 options available:

- One: Lock the selected photo or video if it is unprotected; unlock the selected photo or video if it is protected.
- Date Folder: Protect all photos in the Date Folder.
- Cont. Group: Protect all photos in the Cont. Photo Folder.
- All: Lock all photos or videos.
- Reset: Unlock all photos or videos.

## Delete

You can delete one or all photo/video files.



There are 4 options available:

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

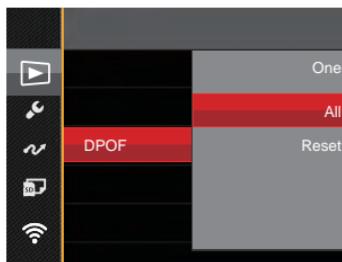
 The “

 Deleting files will cause DPOF settings to be reset.

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

## DPOF (Digital Print Order Format)

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



The printer that supports DPOF is needed for printing.

## Trim

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

1. Select [Yes] to confirm trim. Rotate the zoom lever to select the aspect ratio and press the [ $\Delta$ AF] / [ $\nabla$   $\Delta$   $\nabla$ ] / [ $\blacktriangleleft$   $\blacktriangleright$ ] / [ $\blacktriangleright$   $\blackleftarrow$ ] buttons to adjust the part you want to trim.



2. Press the  $\text{SET}$  button and the [Save change?] prompt appears. Select  $\checkmark$  to change and save the picture. Select  $\times$  to cancel changes and return to the trim prompt screen.

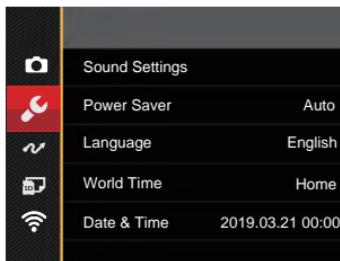


The image cannot be clipped/trimmed again once it has been clipped to 640X480.

## General Settings Menu

Mode: **PSAM** **SCN** **CS** **PLAY**

1. Press the  button in any mode, press the **[▲AF]/[▼▼]** button to select  , and press the  button to enter the menu.
2. Press the **[▲AF]/[▼▼]** button to select  , and press the  /  button to enter the menu.



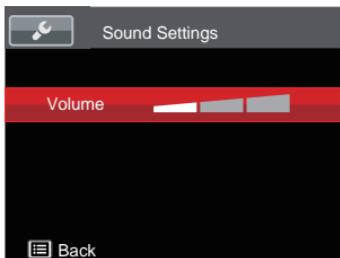
3. Press the **[▲AF]/[▼▼]** button to select the item to be set and press the  /  button to enter the menu.
4. Press the **[▲AF]/[▼▼]** button to select an option and press the  button to confirm.

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

## Sound Settings

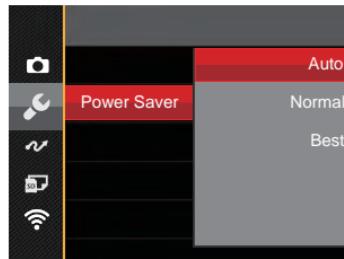
With this setting you may adjust the sound volume.

Press the **[◀▶]** / **[▶◀]** button to adjust the volume and press the **SET** button to confirm your setting.



## Power Saver

This setting allows you to save power and get the maximum possible running time for your camera's batteries. It turns the LCD and camera off automatically after a certain period of inactivity.



- Auto
- Normal
- Best

| Power Saver | LCD power off time | Turn off time |
|-------------|--------------------|---------------|
| Auto        | 3 min              | 5 min         |
| Normal      | 1 min              | 3 min         |
| Best        | 30 sec             | 1 min         |

## Language

Refer to the “Reset your language” section on page 25.

## Zone

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

1. Press the **[ $\blacktriangle$ AF]/[ $\blacktriangledown$   $\blacktriangleright$   $\text{O}$ ]** button to select the departure place ( $\text{H}$ ) and destination ( $\text{Globe}$ ) fields.
2. Press the **[ $\blacktriangleleft$   $\blacktriangleright$ ]/[ $\blacktriangleright$   $\blacktriangleright$ ]** button to select a city located in the same time zone as that of the field. Press the **( $\text{SET}$ )** button to confirm settings.



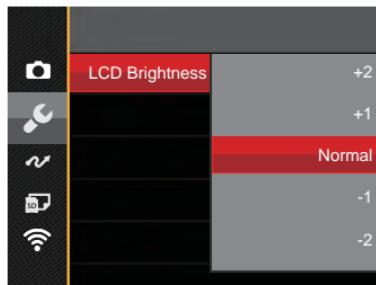
## Date/Time

Refer to the “Reset Date/Time” section on page 26.

## LCD Brightness

Use this setting to adjust the brightness of your LCD.

Press the **[ $\blacktriangle$ AF]/[ $\blacktriangledown$   $\blacktriangleright$   $\text{O}$ ]** button to adjust the brightness of screen and press the **( $\text{SET}$ )** button to confirm.



## File Settings

Mode: **PSAM** **SCN** **CS** **PLAY**

1. Press the **(**) button, press the **[ ] / [  button to select **** and press the **(**) button to enter the menu.**
2. Press the **[ ] / [  button to select **** and press the **(**) / [**[ ] button to enter the menu.****
3. Press the **[ ] / [  button to select the item to be set and press the **(**) / [**[ ] button to enter the menu.****

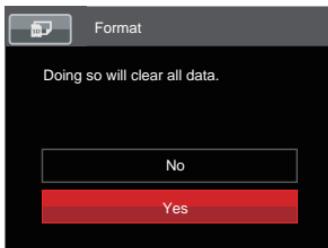


4. Press the **[ ] / [  button to select an option and press the **(**) button to confirm.**

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

## Format

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



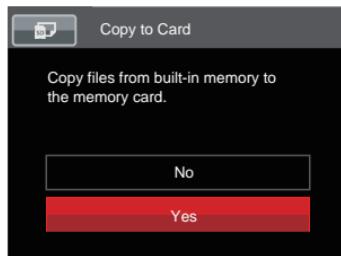
If you select [Yes] the camera will format its memory.



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

## Copy to Card

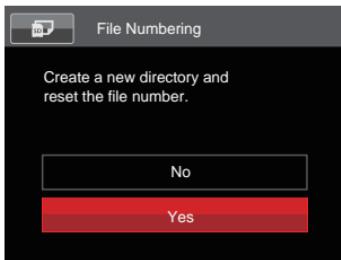
Use this setting to copy the files stored in the built-in memory to a memory card.



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

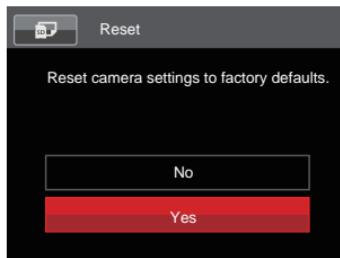
## File Numbering

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



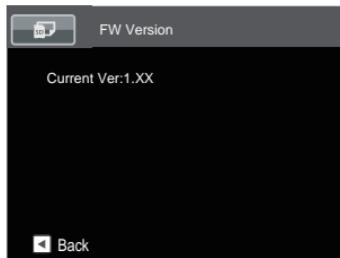
## Reset

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

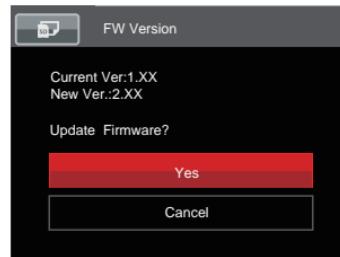


## FW Version

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

Mode: **PSAM** **SCN** **CS** **■**

1. Press the **■** button, press the **[▲AF] / [▼▼]** button to select **■** and press the **SET** button to enter the menu.
2. Press the **[▲AF] / [▼▼]** button to select **~** and press the **SET / [▶▶]** button to enter the menu.
3. Press the **[▲AF] / [▼▼]** button to select the item to be set and press the **SET / [▶▶]** button to enter the menu.



4. Press the **[▲AF] / [▼▼]** button to select an option and press the **SET** button to confirm.

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

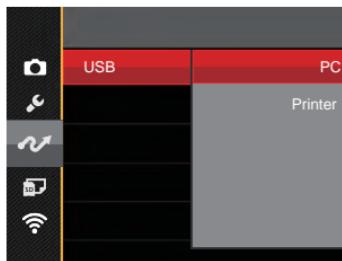
## Connecting to a Computer

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

1. Press the **[ $\Delta$ AF]/[ $\nabla$   $\square$   $\odot$ ]** button to select **「USB」** and press the **(SET)/[ $\blacktriangleright$   $\blacksquare$ ]** button to enter the menu.
2. Press the **[ $\Delta$ AF]/[ $\nabla$   $\square$   $\odot$ ]** button to select **「PC」** and press the **(SET)** button to confirm.

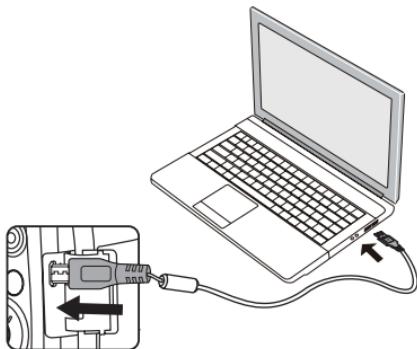


## Transferring files to your computer

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

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

1. Make sure the computer is turned on.
2. Connect one end of the supplied Micro USB cable to the Micro USB port on your camera.
3. Connect the other end of the cable to an available USB port on your computer.



4. After the transmission is complete, disconnect the Micro USB cable according to the 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.

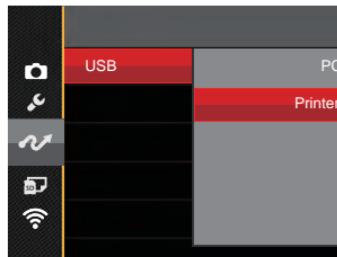
To find out if a printer is PICTBRIDGE™ compatible, simply look for the PICTBRIDGE™ logo on the packaging or check the owner's manual for specifications. With the PICTBRIDGE™ function on your camera, you can print the captured photos directly to a PICTBRIDGE™ compatible printer using the supplied Micro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

### Setting the USB Mode

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

1. Press the **[▲AF]/[▼▼○]** button to select [USB] and press the **(SET)/[▶◀]** button to enter the menu.

2. Press the **[▲AF]/[▼▼○]** button to select [Printer] and press the **(SET)** button to confirm.



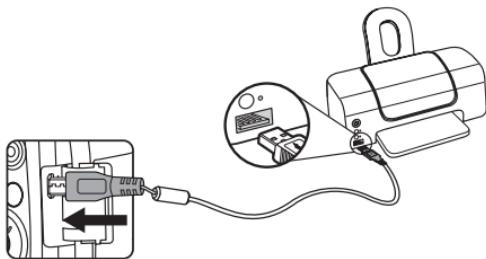
After the camera is reset, it will switch to PC mode automatically from USB mode.



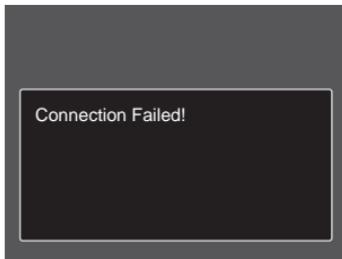
See "PICTBRIDGE™" section on page 105.

## Connecting to your Printer

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



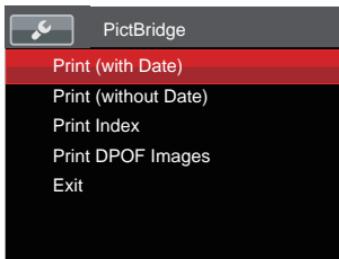
If the camera is not connected to a PICTBRIDGE™ compatible printer, the following error message will appear on the LCD.



The error message above will also appear if the USB mode is set incorrectly, in which case you should disconnect the 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 **[▲AF]/[▼▼]** button to select a menu item and press the **(SET)/[▶◀]** button to enter the item.

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

### Print (with Date)

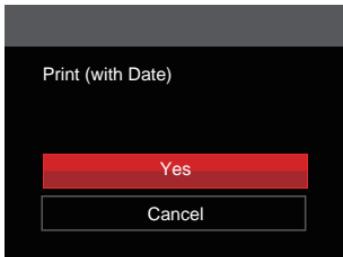
If you have set the date and time on your camera, the date and time will be recorded and saved with each photo you take.

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



2. Press the **[◀▶]/[▶◀]** button to select a photo to be printed.

3. Press the **[▲AF]/[▼▼○]** 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 **[◀◀]/[▶▶]** button to select a photo to be printed.
3. Press the **[▲AF]/[▼▼○]** button to select the number of copies for the currently displayed photo.

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

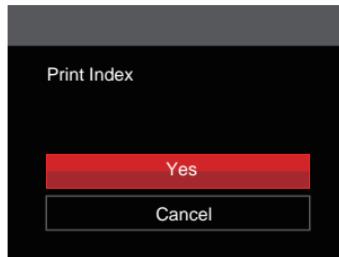


5. Select [Yes] and press the  button to confirm printing; select [Cancel] and press the  button to cancel printing.

## Print Index

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

1. In the PICTBRIDGE™ menu, select [Print Index] and the screen as shown below appears.

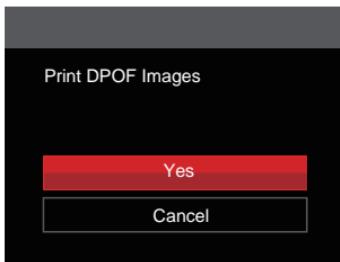


2. Select [Yes] and press the  button to confirm printing; select [Cancel] and press the  button to cancel printing.

## Print DPOF Images

To use DPOF printing, you must select your photos for printing using the DPOF settings beforehand. See “DPOF” section on page 92.

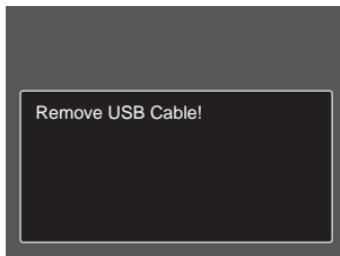
1. In the PICTBRIDGE™ menu, select [Print DPOF Images] and the screen as shown below appears.



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

## Exit

Select [Exit] to exit the PICTBRIDGE™ menu. At this time, the message [Remove USB Cable!] appears on the screen.

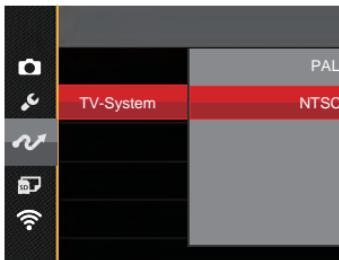


Disconnect the Micro USB cable from the camera and printer.

## Video System

You can use the AV cable (which should be purchased separately) to connect the camera and the television for the video output. Connect one end of the AV cable to USB/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 **[▲AF]/[▼▼]** button to select 「TV-System」 and press the **(SET)/[▶▶]** button to enter the menu.
2. Press the **[▲AF]/[▼▼]** button to select 「NTSC」, and press the **(SET)** button to confirm.



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

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

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

# APPENDICES

## Product Specifications



Design and specifications are subject to change without notice.

|                  |                      |   |
|------------------|----------------------|---|
| Image Sensor     | Type                 | 1/2.3"BSI CMOS  |
|                  | Effective Pixels     | 16.35 Megapixels  |
|                  | Total Pixels         | 16.76 Megapixels  |
| Lens             | Focal Length         | 4.3mm (Wide) — 223.6mm (Tele)   |
|                  | 35mm film equivalent | 24mm (Wide) — 1248mm (Tele)   |
|                  | F number             | F2.8 (Wide) ~ F5.6 (Tele)   |
|                  | Lens Construction    | 13 groups 15 elements   |
|                  | Optical Zoom         | 52x   |
|                  | Optical Zoom         | Normal: (Wide) 60cm ~ $\infty$ , (Tele) 300cm ~ $\infty$ ;<br>Macro: 1cm ~ $\infty$ (Wide Only) |
| Autofocus System |                      | TTL Autofocus   |
| Anti-Handshake   |                      | Optical Image Stabilization   |
| Digital Zoom     |                      | 4x Digital Zoom (Combined Zoom: 208x)   |

|                            |             |   |                            |   |
|----------------------------|-------------|---|----------------------------|---|
| Number of Recording Pixels | Still Image | (4:3)<br>16MP: 4608 X 3456<br>10MP: 3648 X 2736<br>5MP: 2592 X 1944<br>3MP: 2048 X 1536<br>0.3MP: 640 X 480                                   | (3:2)<br>14MP: 4608 X 3072 | (16:9)<br>12MP: 4608 X 2592<br>2MP: 1920 X 1080 |
|                            | Movie       | 1920 X 1080 (30fps), 1280 X 720 (60fps/30fps), 640 X 480 (30fps), High-Speed Movie: 640 X 480 (120fps)  |                            |   |
| Image Compression          |             | Best, Fine, Normal  |                            |   |
| DCF, DPOF (Ver1.1) Support |             | Yes   |                            |   |
| File Format                | Still Image | Exif 2.3 (JPEG)   |                            |   |
|                            | Movie       | MOV [Image: H.264; Audio: Linear PCM (Stereo)]  |                            |   |
| Shooting Modes             |             | Auto Mode, Program AE, Shutter priority, Aperture priority, Manual Mode, Face Beautifier, Wi-Fi Mode, Scene Mode, Movie Mode, Custom Settings |                            |   |
| Scene Mode                 |             | Handheld Night, Pet Mode, Sunset, Fireworks, Multi Exposure, Sport, Night Portrait, Landscape, Portrait, Snow, Children, Party, Panorama Mode |                            |   |
| Detection Features         |             | Face, Smile, Blink, Cat, Dog  |                            |   |
| Photo Touch-up             |             | Red-Eye Reduction, Skin Soften, Eye Brightening, Eye Enlargement  |                            |   |
| HDR                        |             | Yes   |                            |   |

|                          |  |  |
|--------------------------|--|--|
| Scan Panorama            | Up to 360°   |  |
| LCD                      | 3.0 inch (460k Pixels)   |  |
| Image Auto Rotation      | Yes  |  |
| ISO Sensitivity          | Auto, ISO100/200/400/800/1600/3200   |  |
| AF Method                | Single AF, Multi-AF (TTL 25-point), Object Tracking , Face-Detection                                       |  |
| Exposure Metering Method | Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE       |  |
| Exposure Control Method  | Program AE (AE-Lock Available), Shutter Prior AE, Aperture Prior AE  |  |
| Exposure Compensation    | ±3 EV in 1/3 Step Increments   |  |
| Shutter Speed            | 1/2000 ~ 30 Seconds  |  |
| Continuous Shot          | Yes  |  |
| Playback Modes           | Single, Index (9/16 Thumbnails), Slide Show, Date, Continuous Shooting, Zoom (Approx. X 2 ~ X 8)           |  |
| White Balance Control    | AWB, Daylight, Cloudy, Fluorescent, Fluorescent CWF, Incandescent, Manual WB, Color Temp. (1900K ~ 10000K) |  |
| Flash                    | Flash Method   | Pop-up (Manual)  |
|                          | Flash Modes  | Force Off, Flash Auto, Fill Flash, Red-Eye Reduction, Slow Sync., Slow Sync.+Red-Eye Reduction |

|   |  |
|---|--|
| Recording Media                           | Internal Memory: Approx. 8MB   |
|   | SD/SDHC Card (Up to 32GB Support) [MMC Card Not Supported]           |
| Multi-Language Support                    | 27 Languages   |
| Jacks                                     | AV-OUT/USB 2.0 (Micro 5 pin USB)                                     |
| Wi-Fi                                     | Yes (802.11b/g/n)  |
| Remote Viewfinder                         | Yes (via smart device)   |
| Power                                     | Rechargeable Li-ion Battery LB-060, 3.7V 1100mAh, In-Camera Charging |
| Shooting Capability (Battery Performance) | Approx. 240 Shots (Based on CIPA Standards)                          |
| Operation Environment                     | Temperature: 0 ~ 40°C, Humidity: 0 ~ 90%                             |
| Dimensions (W X H X D)                    | Approx. 121.3 X 85.8 X 97.5mm (Based on CIPA Standards)              |
| Weight                                    | Approx. 508g (Body only)   |

## Prompts and Warning Messages

| Message   | Description   | Action   |
|---|---|--|
| Warning! Battery exhausted.                         | Camera battery is depleted. It is a warning indicating that the camera is going to shut off.  | Charge battery or replace with a charged battery.            |
| Lens obstruction, Re-start Camera.                  | The lens is jammed or some foreign object is preventing the lens from functioning properly.   | Turn off the camera and restart it to reset the lens.        |
| Suggest using tripod.                               | When continuous exposure is enabled, this prompt message is displayed when the photo shooting screen is displayed for the first time. | The message will disappear after 2 seconds.                  |
| Built-in memory error!                              | An error has occurred in the built in memory.   | Try shutting off the camera and turning it on again.         |
| Improper alignment. Please try again.               | The offset is too big for panorama shooting.  | Keep the camera steady while shooting to maintain alignment. |
| Warning! Do not turn off your camera during update! | The message appears during the firmware update process.   | The message disappears after the camera update and restart.  |

| Message            | Description  | Action   |
|--------------------|--|--|
| Remove USB Cable!  | Indicates that you can disconnect the Micro USB cable. | The message disappears after you disconnect the Micro USB cable.   |
| Connection Failed! | Failure to connect to PC, printer, or TV-system.       | Remove cable, reinsert cable, and retry connection.  |
| Write Protect !    | The SD card is locked.                                 | Turn off camera and remove SD card. Slide tab on the side of card to unlock.                                       |
| Card Full !        | The memory of the SD card is full.                     | Either delete photos or videos to create room on the card, or replace with another card that has available memory. |
| Memory Full !      | The camera's internal memory is full.                  | Erase files or insert a memory card that has available memory.   |

| Message                      | Description   | Action  |
|------------------------------|---|---|
| Card Error !                 | The card cannot be recognized after being formatted.  | Check that the SD card is compatible with the camera.   |
| Card is not formatted.       | An error has occurred with the memory card.   | Format the memory card. This will erase all data on the card; be sure to copy the data from the card onto another device if you wish to keep it.                  |
| Slow access                  | When a card lower than Class 4 is recording movie above HD, the writing speed will be slower and the recording will not continue. | Replace SD card with a Class 4 or higher card.  |
| Cannot write to SD card.     | The camera cannot write to the SD card.   | Turn off the camera. Remove and reinsert the SD card and turn the camera on to try again. Check if the SD card is in a locked position, or if the memory is full. |
| No Red-Eye Detected!         | No red-eye is detected when selecting Red-Eye Removal in Playback Touch-up.   | The message will disappear after 2 seconds and return to the touch-up menu.   |
| This image cannot be edited. | The file format does not support editing or the edited file cannot be edited again.   | The message will disappear after 2 seconds and return to the original image.  |

| Message                                | Description  | Action   |
|--|--|--|
| Exceeded maximum folder number.        | The folder number in the card exceeds the maximum folder number (999).   | Copy the data to your PC, and format the memory card.                        |
| Too many pictures for fast processing. | During Playback by Date, the images exceed specifications so it is not possible to play by date.   | The message will disappear after 2 seconds and return to Thumbnail 3x3 mode. |
| Unable to recognize files.             | The format of the file viewed is not supported or the file is damaged and cannot be recognized properly.                                     | This message will only disappear after the file is deleted.                  |
| No Picture!                            | When the play button is pushed and there are no files on memory card or in camera.   | The message will disappear after 2 seconds and return to previous screen.    |
| No continuous group file.              | When the camera switches from Playback Mode to Cont. Playback Mode, and there are no continuous group files, this message will be displayed. | The message will disappear after 2 seconds and return to Thumbnail 3x3 mode. |
| Protected!<br>Undeletable!             | The file is protected and cannot be deleted.   | Unlocked file under "Protect", and make sure SD card is unlocked.            |

## Troubleshooting

| Problem                                    | Possible Causes   | Solution   |
|--|---|--|
| Camera does not turn on                    | <ul style="list-style-type: none"><li>The battery has been depleted.</li><li>The battery is not inserted correctly.</li></ul> | <ul style="list-style-type: none"><li>Recharge the battery.</li><li>Correctly reinstall the battery.</li></ul>   |
| Camera turns off suddenly during operation | <ul style="list-style-type: none"><li>The batteries have been depleted.</li></ul>   | <ul style="list-style-type: none"><li>Recharge the battery.</li><li>Make sure the camera is actually shutting off and not entering Power Save Mode, where the LCD will turn off after the camera has been idle for a period of time.</li></ul> |
| The picture is blurry                      | <ul style="list-style-type: none"><li>Camera shakes while taking a picture.</li></ul>   | <ul style="list-style-type: none"><li>Turn on OIS feature.</li><li>Please use tripod for high magnification (above 15X) optical zoom. If you are holding the camera, be sure to use both hands.</li></ul>                                      |
| Images and video files cannot be saved     | <ul style="list-style-type: none"><li>The SD memory card is full.</li><li>The memory card is locked.</li></ul>                | <ul style="list-style-type: none"><li>Use another memory card or delete unnecessary files.</li><li>Unlock the memory card.</li></ul>   |

| Problem   | Possible Causes  | Solution  |
|---|--|---|
| Images will not print from the connected printer  | <ul style="list-style-type: none"> <li>■ The camera is not connected to the printer correctly.</li> <li>■ The printer is not PICTBRIDGE™ compatible.</li> <li>■ The printer is out of paper or ink.</li> <li>■ The printer paper is jammed.</li> </ul> | <ul style="list-style-type: none"> <li>■ Check the connection between the camera and printer.</li> <li>■ Use a PICTBRIDGE™ compatible printer.</li> <li>■ Load paper into the printer or replace the ink cartridge in the printer.</li> <li>■ Remove the jammed paper.</li> </ul> |
| Saving data to memory card is slow  | <ul style="list-style-type: none"> <li>■ Using a memory card below Class 4 may result in slower recording times.</li> </ul>  | <ul style="list-style-type: none"> <li>■ Use a memory card with write Class 4 or higher than 4 to improve performance.</li> </ul>   |
| Cannot write to the memory card   | <ul style="list-style-type: none"> <li>■ The SD memory card has been locked.</li> </ul>  | <ul style="list-style-type: none"> <li>■ Release the write lock of the memory card or replace with another card.</li> </ul>   |
| Too many movies to process  | <ul style="list-style-type: none"> <li>■ The number of pictures or folders in the memory card exceed the specifications, so the playback of data folder can not be displayed.</li> </ul>   | <ul style="list-style-type: none"> <li>■ Delete unwanted files.</li> </ul>  |
| The flash icon  appears on the LCD | <ul style="list-style-type: none"> <li>■ Current shooting environment requires flash.</li> </ul>   | <ul style="list-style-type: none"> <li>■ Turn on flash.</li> </ul>  |

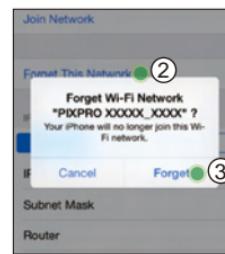
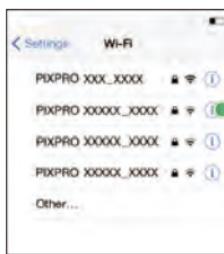


When shooting with stacked filters attached, the corners of the photo may turn dark (Vignetting effect) because the filter holder blocks light from reaching the camera image sensor; especially, at wide angle zoom control settings. Please take test shots and review the results when using stacked filters.

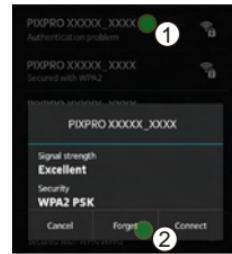


Please enter the new password on smart device after changing Wi-Fi password. Some models of smart device will remember the Wi-Fi password previously entered, so please clear the old password on smart device manually before connection (For different models, this operation may be varied, please subject to your user manual.)

### iOS system



### Android system



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