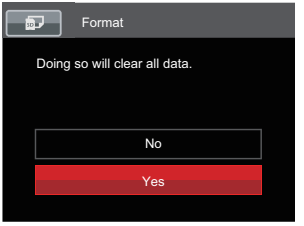
Format

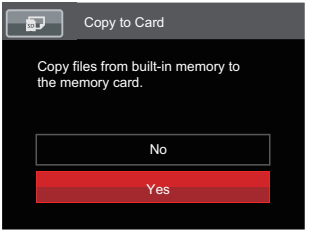
Please note: formatting enables you to delete all contents in the memory card and built-in memory, including protected photo and movie files.



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

Copy to Card

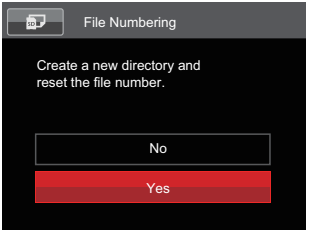
Use this setting to copy the files stored in the built-in memory to a memory card.



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

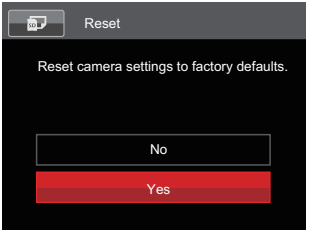
File Numbering

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

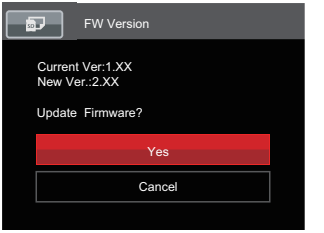
Use this setting to restore the camera to its original default settings.



FW Version

Use this setting to view the current camera firmware version.

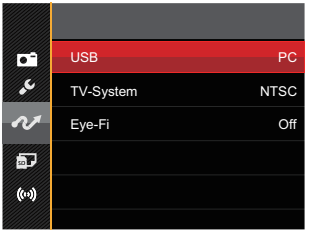
When there is a new firmware version in the memory card, select「Yes」to update.



Connection Settings

Mode: P S A M 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 or the [▶ϟ] button to enter the menu.
3. Press the [▲AF] / [▼🗑⏲] button to select the item to be set and press the (SET) button or the [▶ϟ] 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.

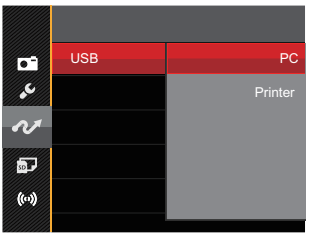
Connecting to a Computer

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 [▲AF] / [▼🗑⏲] button to select 「USB」 and press the (SET) button or the [▶ϟ] button to enter the menu.
2. Press the [▲AF] / [▼🗑⏲] button to select 「PC」 and press the (SET) button to confirm.

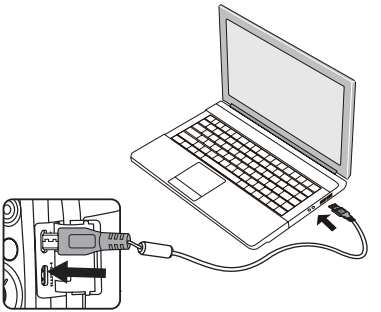


Transferring files to your computer

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

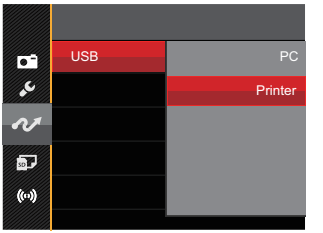
PictBridge technology allows printing of the photos saved in the memory card by the printer.

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 or the [▶ϟ] button to enter the menu.
2. Press the [▲AF] / [▼🗑⏲] button to select 「Printer」 and press the (SET) button to confirm.

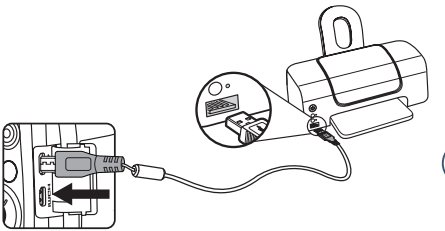


After the camera is reset, it will switch to PC mode automatically from USB mode.

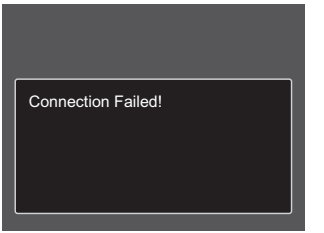
See "PictBridge" section on page 104.

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.



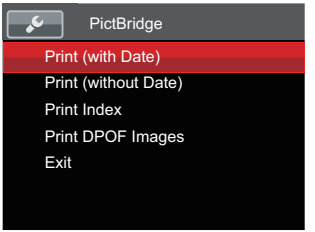
If the camera is not connected to a PictBridge compatible printer, the following error message will appear on the LCD.



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.



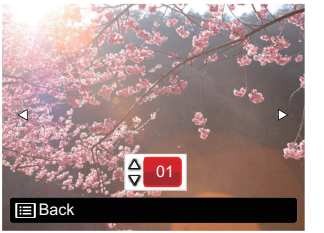
Press the [▲AF] / [▼🗑⏲] button to select a menu item and press the (SET) button or the [▶ϟ] button to enter the item.

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

Print (with Date)

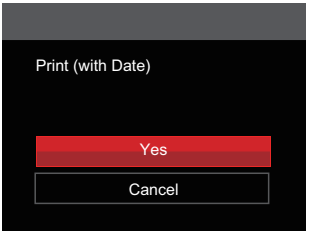
If you have set the date and time on your camera, the date and time will be recorded and saved with each photo you take.

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



2. Press the [◀] / [▶ϟ] 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.

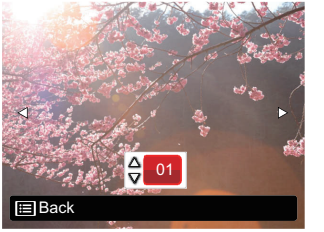


5. Select 「Yes」 and press the (SET) button to confirm printing; select 「Cancel」 and press the (SET) button to cancel printing.

Print (without Date)

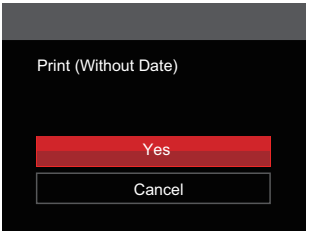
Use this setting to print the photos without dates on them.

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 (SET) button and the following screen will appear.

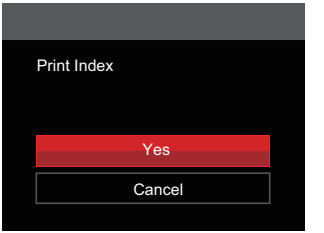


5. Select「Yes」and press the (SET) button to confirm printing; select「Cancel」and press the (SET) button to cancel printing.

Print Index

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

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

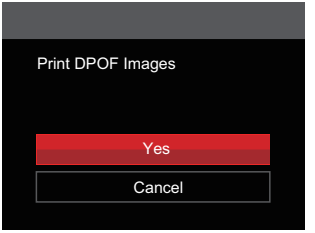


2. Select「Yes」and press the (SET) button to confirm printing; select「Cancel」and press the (SET) button to cancel printing.

Print DPOF Images

To use DPOF printing, you must select your photos for printing using the DPOF settings beforehand. See “DPOF” section on page 91.

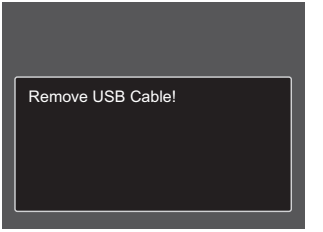
1. In the PictBridge menu, select「Print DPOF Images」and the screen as shown below appears.



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

Exit

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

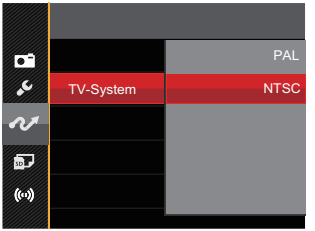


Disconnect the Micro USB cable from the camera and printer.

Video System

You can use the AV cable (which should be purchased separately) to connect the camera and the television for realizing the video output. Connect one end of the AV cable to 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 or the [▶ϟ] 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.

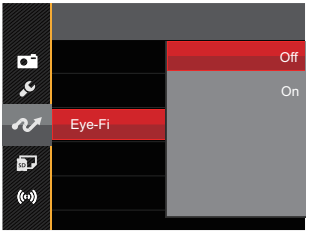
NTSC: English, Chinese (Traditional), Japanese, French, Korean, Russian, Vietnamese, Greek, Hungarian

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

Set Eye-Fi SD Card Connection Mode

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

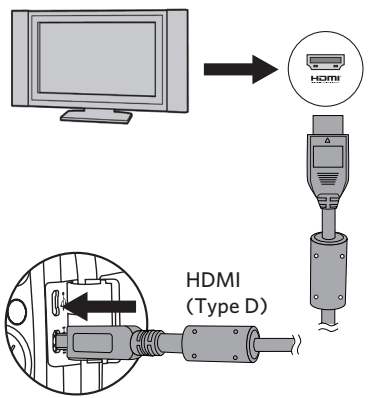
1. Press the [▲AF] / [▼🗑⏲] button to select 「Eye-Fi」 and press the (SET) button or the [▶ϟ] button to enter the menu.
2. Press the [▲AF] / [▼🗑⏲] button to select 「On」 or 「Off」 and press the (SET) button to confirm.



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

Supported HDMI Connections

HDMI (High Definition Multimedia Interface) is a fully digital audio/video transmission interface, through which uncompressed audio and video signals are transmitted. Direct transmission of digital video signals to your TV reduces conversion loss and improves image quality.



Connecting HDMI-Ready TV

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

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

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

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 ~ ∞, (Tele) 300cm ~ ∞; Macro: 1cm ~ ∞ (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) 16MP: 4608 X 3456 10MP: 3648 X 2736 5MP: 2592 X 1944 3MP: 2048 X 1536 0.3MP: 640 X 480	(3:2) 14MP: 4608 X 3072	(16:9) 12MP: 4608 X 2592 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 [Handheld Night, Pet Mode, Sunset, Fireworks, Multi Exposure, Sport, Night Portrait, Landscape, Portrait, Snow, Children, Party, Panorama Mode], Movie Mode, Custom Settings		
Detection Features		Face, Smile, Blink, Cat, Dog		
Photo Touch-up		Red-Eye Reduction, Skin Soften, Eye Brightening, Eye Enlargement		
HDR		Yes		

Scan Panorama		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		±3EV 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]
PictBridge, ExifPrint Support	Yes
Multi-Language Support	27 Languages
Jacks	AV-OUT/USB 2.0 (Micro 5 pin USB), HDMI (Type D)
Eye-Fi Support	Yes
Wi-Fi	Yes (802.11 b/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.	Warning before power off when the camera battery is exhausted.	Displaying that it will power off after 2 seconds.
Lens obstruction, Re-start Camera.	The lens is jammed or some foreign object is preventing the lens from functioning properly.	Turn off the camera and restart it to reset the lens.
Suggest using tripod.	When continuous exposure 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 occurs in built-in memory.	The message will disappear after 2 seconds.
Improper alignment. Please try again.	The offset is too big for panorama shooting.	Remove the message after 2 seconds and return to shooting.
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 your PC, printer, TV (with HDMI).	Remove the cable and retry connection.
Write Protect !	When you boot, press the shutter button or edit the files under playback mode, and the SD card is locked, the message appear.	The message will disappear after 2 seconds.
Card Full !	When you boot, press the shutter button or edit the files under playback mode, and the SD card is full, the message appear.	The message will disappear after 2 seconds.
Memory Full !	When you boot, press the shutter button or edit the files under playback mode, and the camera memory is full, the message appear.	The message will disappear after 2 seconds.

Message	Description	Action
Card Error !	The memory card can't be identified after being formatted.	Normal display.
Card is not formatted.	When an error occurs in the SD card, the message "Not Formatted" appears.	Disappear after 2 seconds and enter the formatting process.
Slow access	When a SD card lower than Class 4 is used to record a HD movie, the writing speed will be slower and recording will not continue.	Remove the message after 2 seconds and return to shooting.
Cannot write to SD card.	The photo shooting or video recording has been interrupted so recording cannot continue.	Remove the message after 2 seconds and return to shooting.
No Red-Eye Detected!	Red eyes have not been detected in the image.	The message will disappear after 2 seconds.
This image cannot be edited.	The file format does not support editing or the edited file cannot be edited again.	The message will disappear after 2 seconds.

Message	Description	Action
Exceeded maximum folder number.	When you boot, press the shutter button or edit the files under playback mode, and the SD card exceeded the maximum number of folders (999), the message appear.	The message will end after the camera processing is complete.
Too many pictures for fast processing.	During the playback by date, the images exceed specifications so that it is not possible to play by date.	The message disappears after 2 seconds and the camera returns to the normal playback mode.
Unable to recognize files.	The format of the file to be viewed is not supported or the file is corrupted so it cannot be properly read.	This image message disappears only after the file is deleted.
No Picture!	When you press the play button, no image files exist in the camera or memory card.	The message disappears 2 seconds later to return to the photo shooting screen.
No continuous group file.	When you switch from the playback mode to continuous photo mode, there is no continuous group file.	The message disappears after 2 seconds and the camera returns to the normal playback mode.
Protected! Undeletable!	The file is protected. The message appears when you delete it.	The message will disappear after 2 seconds.

Troubleshooting

Problem	Possible Causes	Solution
Camera does not turn on	■ The battery has been depleted. ■ The battery is not inserted correctly.	■ Recharge the battery. ■ Correctly reinstall the battery.
Camera turns off suddenly during operation	■ The batteries have been depleted.	■ Recharge the battery.
The picture is blurred	■ Camera shakes while taking a picture.	■ Turn on OIS feature. ■ Please use tripod for high magnification (above 15X) optical zoom.
Images and video files cannot be saved	■ The SD memory card is full. ■ The memory card is locked.	■ Use another memory card or delete unnecessary files. ■ Unlock the memory card.
Images will not print from the connected printer	■ The camera is not connected to the printer correctly. ■ The printer is not PictBridge compatible. ■ The printer is out of paper or ink. ■ The printer paper is jammed.	■ Check the connection between the camera and printer. ■ Use a PictBridge compatible printer. ■ Load paper into the printer or replace the ink cartridge in the printer. ■ Remove the jammed paper.

Problem	Possible Causes	Solution
Saving data to memory card is slow	■ Using a memory card below Class 4 may result in slower recording times.	■ Use an SD card with write Class higher than 4 to improve performance.
Cannot write to the memory card	■ The SD memory card has been locked. ■ The camera may experience trouble recording HD movies to SD cards with a rating lower than Class 4.	■ Release the write lock of the memory card or replace with another card. ■ Use an SD card with write Class higher than 4 to improve performance.
Too many movies to process	■ The number of pictures or folders in the SD memory card exceed the specifications, so the playback of data folder cannot be displayed.	■ Delete unwanted files.
The flash icon ϟ appears on the LCD	■ Current shooting environment requires flash.	■ Turn on flash.

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

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