

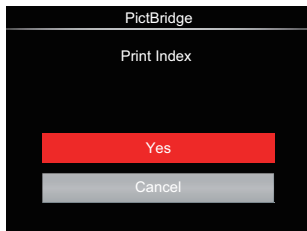


5. Select [Yes] and press the **(SET)** button to confirm; select [Cancel] to cancel printing.

Print Index

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

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

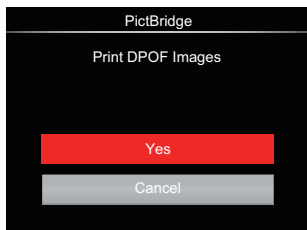


2. Select [Yes] and press the **(SET)** button to confirm; select [Cancel] to cancel printing.

Print DPOF Images

To use DPOF printing, you must select your photos for printing using the DPOF settings beforehand. See “DPOF” section on page 99.

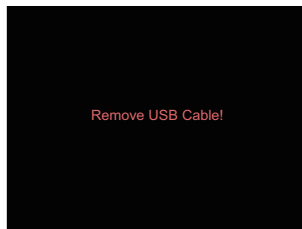
1. In the PictBridge menu, select [Print DPOF Images] and the screen as shown below appears.



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

Exit

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

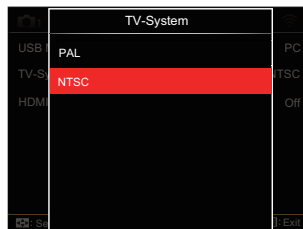


Disconnect the Micro USB cable from the camera and printer.

Video System

You can use the AV cable (which should be purchased separately) to connect the camera and the television for realizing the video output. Connect one end of the AV cable to AV port of the camera, connect the other end to AV-OUT port of the television. Adjust the format of the video output system according to your requirements, and the steps are as follows:

1. Press the  button, press the [**▲AF**]/[**▼**  ] button to select  and press the  button to enter the menu.
2. Press the [**◀** ]/[**▶** ] button to select .
3. Press the [**▲AF**]/[**▼**  ] button to select [TV-System] and press the  button to enter the menu.
4. Press the [**▲AF**]/[**▼**  ] button to select [NTSC] or [PAL] and press the  button to confirm.



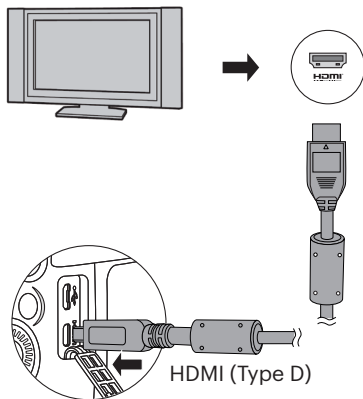
- NTSC: English, Chinese (Traditional), Japanese, French, Korean, Russian, Vietnamese, Greek, Hungarian
- PAL: German, Spanish, Italian, Chinese (Simplified), Portuguese, Swedish, Danish, Finnish, Indonesia, Norwegian, Dutch, Turkish, Polish, Thai, Croatian, Czech, Arabic, Hindi



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

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.



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.

HDMI CEC Control

After connecting the camera with TV-System, you may view pictures taken with the camera on the TV screen and operate the camera with your TV remote control to view and edit all images.



-  It is required that the TV-System supports HDMI CEC.
-  After the camera is successfully connected with TV-System, other buttons of the camera except the Power button cannot work, with the LCD staying dark.
-  Please refer to TV manual for relative settings of TV-System.

Introduction on Icons

1.  Info Hiding/Display
2.  Zoom-in
 : Zoom in Images
 : Zoom out Images
3. Rotate Images
 : Only Turn Left
4.  Image Index
 : 5*3 Index Playback
 : 10*5 Index Playback
 : 3*1 Date Folder Index
 : 5*3 Cont. Group Index
5.  Back
6.  Play Slide Show
7.  Button for Switching Between Previous and Next Images

8.  Videos
9. Movie Length:00:00:00
10.  Cont. Group File
11.  First Image Mark
12. 000/000:Current Sorting/Total Number of Images in Group
13.  :Confirm Effect

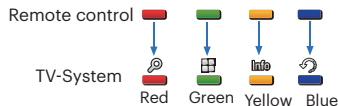
14.  :No Change


The following operations are available during HDMI CEC playback:

- 1:1 Single Playback
- Zoom-in Playback
- Rotate
- Index Playback
- Cont. Group Playback
- Slide Show Playback
- Video Play
- Panoramic File Play
- Image Edit



Pressing the four-color button on remote control can enable relative functions displayed on the TV-System screen.



1:1 Single Playback:

Pressing the left and right arrow buttons can switch among images.

Zoom-in Playback:

Under the 1:1 single playback mode, press the red button to zoom in images; press the red and green buttons on remote control to zoom out images.

Rotate:

Under the 1:1 single playback mode, press the blue button to rotate single picture.

Index Playback:

Under the 1:1 playback mode, press the green button to enter index playback; press the central button to enter image selection and then the arrow buttons to select files you want and finally press the central button again to back to the 1:1 single playback.

Under the 5*3 index playback mode, press the green button to enter index selection and then the left and right arrow buttons to select , , , and , and finally press the central button again to confirm your selection.

Cont. Group Playback:

Under the 1:1 single playback mode, press the central button to start playing images in continuous group.

If no images in the camera's cont. group, there will appear a prompt of no pictures if you select  on the index playback interface.

Slide Show Playback:

Under the 1:1 single playback mode, press the down arrow button to enter slide show playback. While playing, you may press the left and right arrow buttons to directly switch between previous and next images and the central button to end playing.

Video Play:

Under the 1:1 single playback mode, select a video and then press the central button to start playing. While playing, you may use the arrow buttons and the central button to perform operations such as fast forward/backward, pause, frame forward/backward, back to play, etc. according to prompts on the screen.

Panoramic File Play:

Under the 1:1 single playback mode, select a panoramic file and then press the central button to begin playing.

Image Edit:

Multiple edit can be repeated under image edit mode. Only one picture is saved finally.

Under the 1:1 single playback mode, select a picture and then press the up arrow button to enter image edit and start detecting face.

Press the up arrow button to do HDR editing.

Press the down arrow button to delete one picture.

Press the left and right arrow buttons to edit the color. 12 effects in total for selection.

The following beautifier touch-up functions cannot be enabled until a face is detected. You may press relative color buttons to edit.



: Skin Soften



: Eye Enlargement



: Eye Brightening

Availability of edit functions corresponding to each type of file (O : Available; X : Not Available)

	HDR	Color	Beautifier	Delete
Normal (face)	O	O	O	O
Normal (no face)	O	O	X	O
Panorama	X	X	X	O
Video	X	X	X	O

HDMI CEC Connection

Function	Full Size Playback	Zoom-in Playback	Index Playback	Video Play	Cont. Group Play	Panoramic File Play
Zoom In	O	O (Movable to four directions during zoom-in)	X	X	X	X
Zoom Out	X	O	X	X	X	X
Rotate	O (turn left only)	X	X	X	X	X
Play Slide Show	O	X	X	O	O	O
Edit Image	O*1	X	X	O	O	O
Info Hiding/ Display	O	O	X	O*2	O*2	O*2
Delete	O	X	X	O*3	O*3	O*3

*1 After entering the image edit, relative operation of the beautifier cannot appear until a face is detected.

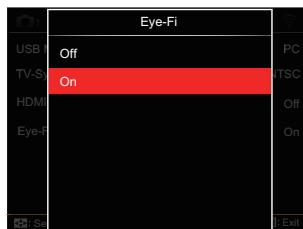
*2 It is available before and in playing and during pause.

*3 The function of delete one cannot work until the camera enters image edit mode.

Set Eye-Fi SD Card Connection Mode

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

1. Press the  button, press the [**▲AF**]/[**▼**  ] button to select  and press the  button to enter the menu.
2. Press the [ ]/[ ] button to select .
3. Press the [**▲AF**]/[**▼**  ] button to select 「Eye-Fi」 and press the  button to enter the menu.
4. Press the [**▲AF**]/[**▼**  ] button to select 「On」 or 「Off」 and press the  button to confirm.



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

APPENDICES

Product Specifications



Design and specifications are subject to change without notice.

Image Sensor	Type	1/2.3" BSI CMOS
	Effective Pixels	20.68 Megapixels
	Total Pixels	21.14 Megapixels
Lens	Focal Length	4.3mm (Wide) — 279.5mm (Tele)
	35mm film equivalent	24mm (Wide) — 1560mm (Tele)
	F number	F2.9 (Wide) — F6.7 (Tele)
	Lens Construction	14 groups 18 elements
	Optical Zoom	65x
	Focusing Range	Normal: (Wide) 50cm ~ ∞, (Tele) 250cm ~ ∞; Macro: 1cm ~ ∞ (Wide Only)
Autofocus System		TTL Autofocus
Electronic Viewfinder		Yes (-3~+1 diopter)
Anti-Handshake		Optical Image Stabilization
Digital Zoom		4x Digital Zoom (Combined Zoom: 260x)

Number of Recording Pixels	Still Image	(4:3) 20MP: 5184×3888 10MP: 3648×2736 5MP: 2592×1944 3MP: 2048×1536 0.3MP: 640×480	(3:2) 18MP: 5184×3456	(16:9) 15MP: 5120×2880 2MP: 1920×1080
	Movie	1920×1080 (30fps), 1280×720 (60fps), 1280×720 (30fps), 640×480 (30fps), High-Speed Movie: 640×360 (120fps)		
Image Compression		Best, Fine, Normal		
DCF, DPOF (Ver1.1) Support		Yes		
File Format	Still Image	JPEG (Fine, Standard), RAW, RAW+ JPEG (Fine)		
	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		Auto Scene, Panorama Mode, Handheld Night, Multi Exposure, Cat/Dog, Snow, Party, Sport, Night Portrait, Portrait, Children, Landscape, Sunset, Fireworks		
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	Display	3.0 inch (920k Pixels)
	Angle Adjustment	Yes
Image Auto Rotation		Yes
ISO Sensitivity		Auto, ISO100/200/400/800/1600/3200
Focus Mode		Single AF, Continuous AF, Object Tracking, Manual Focus
Focusing Area Selection		Single Area Focusing, 25-Area-Focusing, Face Detection, Manual Area Focusing
Exposure Metering Method		Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE
Exposure Control Method		Program AE (AE-Lock Available), Shutter Prior AE, Aperture Prior AE
Exposure Compensation		±3EV in 1/3 Step Increments
Shutter Speed		1/2000 ~ 30 Seconds
Continuous Shooting		Yes
Playback Modes		Single, Index (9/16 Thumbnails), Slide Show, Date, Burst Shooting, Zoom (Approx. x2 ~ x8)

White Balance Control		AWB, Daylight, Cloudy, Fluorescent, Fluorescent H, Incandescent, Manual WB, Color Temp. (1900K ~ 10000K)
Flash	Flash Method	Pop-up (Auto)
	Flash Modes	Force Off, Fill Flash, Flash Auto, 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), HDMI (Type D)
Eye-Fi Support		Yes
Wi-Fi		Yes (802.11 b/g/n)
Remote Viewfinder		Yes (via iOS/Android smart device)
Power		Rechargeable Li-ion Battery LB-070, 7.4V 1000mAh, In-Camera Charging
Shooting Capability (Battery Performance)		Approx. 400 Shots (Based on CIPA Standards)
Operation Environment		Temperature: 0 ~ 40°C, Humidity: 0 ~ 90%
Dimensions (W×H×D)		Approx. 125.9×89.0×113.6mm (Based on CIPA Standards)
Weight		Approx. 602g (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.
Built-in memory error!	In the case of built-in memory error.	Disappear 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.
Battery temperature is too high.	Battery temperature is too high.	The message will disappear after 2 seconds. Let the battery cool before attempting to use the camera again.
Please update firmware after the battery is fully charged!	The firmware cannot be updated when power is insufficient.	Remove the message after 2 seconds and returning to the update screen.

Message	Description	Action
Cannot change settings under this mode.	Appears during shooting mode if a function can not be set by rotating the function ring.	Remove the message after 2 seconds and return to shooting.
Improper alignment. Please try again.	The offset is too big for panorama shooting.	Remove the message after 2 seconds and return to shooting.
Connection Failed!	In the case of failing to connect to a PC or a printer. In the case of failing to connect to a TV-system (including HDMI).	Remove cable and retry connection
In this capture ***** Still size limited to ** M	After choosing the image size in the Function Ring (Smart), this message may occur when the still size limit is reached.	Remove the message after 2 seconds and return to shooting.
Capture reached maximum limit	Press the shutter to capture images in recording a video. If the number of images captured exceeds 15, there will be a prompt if you press the shutter again.	The message will disappear in 2 seconds with no influence to video recording.

Message	Description	Action
Write Protect !	In the case that there is lock protection for the card when saving the image.	Disappear after 2 seconds and return to the previous image.
Card Full !	In the case that the camera detects the card capacity is insufficient when turning on or pressing the shutter.	Disappear after 2 seconds and return to the previous image.
Memory Full !	In the case that the camera detects the memory capacity is insufficient when turning on or pressing the shutter.	Disappear after 2 seconds and return to the previous image.
Exceeded maximum folder number.	When the folder number in the card exceeds the maximum folder number (999), the time for turning on and reading will be too long, it will prompt the message until the reading is completed.	The message will end after the camera processing is complete.
Card Error !	The card cannot be recognized after being formatted.	Normal display.
Card is not formatted.	When the card reading error occurs, the message of not formatted will be displayed.	Disappear after 2 seconds and enter the formatting process.

Message	Description	Action
Slow access	When a card lower than Class 4 is recording movie above HD, it may be accessed slowly and the recording cannot be continued.	Remove the message after 2 seconds and return to the shooting image.
Cannot write to SD card.	The recording cannot be continued if there are problems which may cause interruption of the recording during writing to the card or recording in the process of shooting or recording.	Disappear after 2 seconds and return to shooting.
No Picture!	When pressing the button there is no image in the camera or the card.	Disappear after 2 seconds and return to shooting.
No continuous group file.	When it switches from playback mode to Cont. playback mode, if there is no continuous group file in the files, this prompt message will display.	Remove the message after 2 seconds and return to Thumbnail 3x3 mode.
No Red-Eye Detected!	No red-eye detected when pressing for red-eye removing in playback touch-up.	Disappear after 2 seconds and return to the touch-up menu.

Message	Description	Action
Too many pictures for fast processing.	The image may be unable to enter the date playback if the image exceeds the specification in the case of date playback.	Remove the message after 2 seconds and return to Thumbnail 3x3 mode.
Unable to recognize files.	When the format of the file viewed is not supported or the file is damaged and cannot be recognized properly.	This image message disappears only after the file is deleted.
Protected! Undeletable!	This message will be displayed on the image immediately when executing delete action to the protected files.	Disappear after 2 seconds and return to the previous image.
This image cannot be edited.	The file format does not support editing or the edited file cannot be edited again.	Remove the message after 2 seconds and return to the original image.
Cannot edit because no face detected!	No face image entered into the touch-up menu.	Remove the message after 2 seconds and return to the touch-up menu.

Troubleshooting

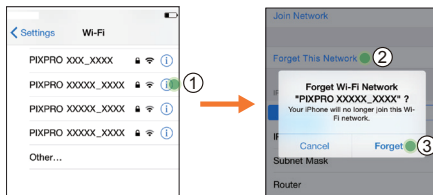
Problem	Possible causes	Solution
Camera does not turn on	■ The battery has been depleted. ■ The battery is not inserted correctly.	■ Recharge the battery. ■ Correctly reinstall the battery.
Camera turns off suddenly during operation	■ The batteries have been depleted.	■ Recharge the battery.
The picture 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 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.
Saving data to memory card is slow	■ Using a memory card below Class 4 may result in slower recording times.	■ Use a memory card with write Class 4 or higher than 4 to improve performance.

Problem	Possible Causes	Solution
Cannot write to the memory card	■ The memory card has been locked.	■ Release the write lock of the memory card or replace with another card.
Too many movies to process	■ The number of pictures or folders in the memory card exceed the specifications, so the playback of data folder can not be displayed.	■ Delete unwanted files.

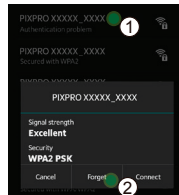
 When shooting with stacked filters attached, the corners of the photo may turn dark (vignetting effect) because the filter holder blocks light from reaching the camera image sensor; especially, at wide angle zoom control settings. Please take test shots and review the results when using stacked filters. (Filter size : $\Phi 52\text{mm}$)

 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 devices



Android devices



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