




The MF assist needs to be enabled with the  button. (See P79 for details)

After enabling manual focus (non AF+MF):





If the lens focus ring is operated or the jog dial is rolled [] again, the AF enlargement frame will appear on the LCD screen. After a best position you want is obtained through manual adjustment, press the  button to close the AF enlargement frame and make the camera back to normal shooting screen. Semi-pressing the shutter button will have no effect; you need to fully press the shutter button to take a normal photo.



The focus frame displayed after enabling the auto + manual focus depends on the settings of AF area (center-AF/multi-AF).










Semi-press the shutter button for auto focus and then rotate the lens focus ring or the [], to focus on areas enlarged on the screen. Press the  button to close the AF enlargement frame and make the camera back to normal framing screen and then press the shutter to take a normal photo. After semi-pressing the shutter, shooting will be carried out mainly based on manual focus settings. If the shutter is semi-pressed again for AF after completion of manual focus, shooting will be carried out mainly based on the final AF settings.




Picture Effect

Picture effect allows user to select different color effects.





-  Normal
-  Vivid
-  Black and White
-  Dreamy
-  Vignetting
-  Ektachrome
-  Kodachrome





-  Kodacolor
-  Salon
-  Punk
-  Negative
-  Reflection
-  Sketch
-  Fish Eye
-  4 Grids - Stylish (2M)
Four combined effects: Fine + Warm Yellow + New Japanese + Cold Green
-  4 Grids - Partial Color (2M)
Four partial colors of blue, yellow, green and red to form combined effects.


Flash Mode


The flash is mainly for supplementing light for the scene. The flash is usually used in shooting against the light to highlight the object shot through lightening the object while darkening the background; it is also suitable for metering and shooting in darker scenes through exposure. (For installation steps of the flash, please refer to P23.)



-  Force Off
Flash is turned off.
-  Force Flash
For fill flash at the moment of taking a picture.

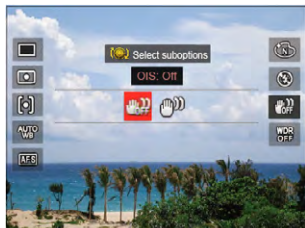
-  Flash Auto
Camera flash goes off automatically based on existing light conditions.
-  Red-Eye Reduction
The camera emits a brief pre-flash before the picture is taken to reduce red-eye effects.
-  Slow Sync.
Flash first to make the object photic and then expose for a long time to make the background brighter.
-  Slow Sync. + Red-Eye Reduction
The camera uses both slow sync. And red-eye reduction in flashing.



-  Rear curtain sync
Press the shutter to make it on normally, and then the flash gives a flash to expose at the moment that the shutter closes. (Mainly used to shoot fast-moving objects.)


 If the flash is disconnected or closed, its default mode is DISABLE and isn't optional.


OIS

This mode can help reduce photo blur caused by unintentional hand shake.



-  OIS: Off
-  OIS: On

 Use Stabilization Mode in dark environments or when using a slower shutter speed.

 The effect of OIS may be unsatisfactory when shooting with fierce shake of camera (e.g. in the running vehicle).

WDR

When the camera detects that there is a big contrast in brightness between scenes and such scenes are against the light, it will use DSP to automatically adjust the brightness and saturation to make pictures taken restore the scene more closely. (Adjustable under the **P S A M C S** mode)















WDR is mutually exclusive with RAW/RAW+JPG. When WDR works, the quality will automatically change from RAW or RAW+JPG to default JPG.












- **WDR OFF** WDR Off
- **WDR** WDR On


Introduction on Functions of Menu Button

Mode:  **PSAM SCN CS** 

1. Press the  button to enter the menu.
2. Press the [ AE-L/AF-L] / [ ] button to select.
3. Press the [ ] / [ **Info**] button to select the setting options and the Press the  button to enter the menu.
4. Press the [ ] / [ **Info**] button to select and the Press the  button to confirm.

8 options in [ Menu] :

- Fn Settings 
- Shoot Settings 1 
- Shoot Settings 2 
- Playback Menu 
(See P100 for details)
- Normal Settings 
- File & Firmware Settings 
- Connection Settings 
(See P112 for details)
- Wi-Fi  (See P44 for details)

 Functions that can be enabled are different under each mode.

Please refer to the sections below to know details of each option.

Fn Settings

3 options in [Fn Settings] :

- Fn1
- Fn2
- AE/AF Lock

Fn1/Fn2 Settings

This function can be used to customize the quick access with Fn1 or Fn2 button.



After saving the functions of Fn1 or Fn2 button, the camera goes back to the shooting status. Pressing Fn1 or Fn2 button can quickly enable relative functions.

Button	Functions (Referred Pages)
Fn1/Fn2	Image Size (P81)
	Movie Size (P82)
	Quality (P83)
	Focus Mode (P65)
	AF Area (P62)
	Metering Mode (P62)
	Flash mode (P69)
	Picture Effect (P68)
	Beautifier (P40)
	WB Mode (P63)
	WDR (P71)
	OIS (P70)



Fn1 is for picture effect while Fn2 for AF Area by default.

AE/AF Lock

For simultaneously locking current AE value and AF range.



- [AE-L]: AE Lock
For locking the current AE value. (Only the AE lock works in shooting with manual focus.)
- [AF-L]: AF Lock
For locking the current AF value. (Only the AF lock works in shooting under manual exposure mode.)
- [AE/AF-L]: AE/AF Lock
For simultaneously locking the current AE value and the AF range.

Shoot Settings 1

6 options in [Shoot Settings 1] :

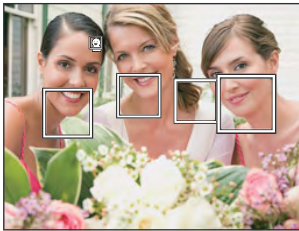
- Face Detection
- AF Assist Beam
- Date Imprint
- Quick Review
- Digital Zoom
- MF Assist

Face Detection

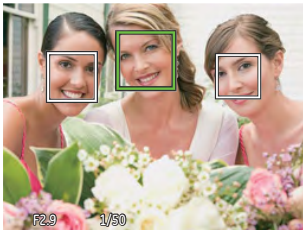
For detecting and focusing on faces to make all faces as much as clear under the photo mode.



1. Hold the camera steadily and then focus on the object to detect its face. A focus frame will appear at the face on the screen when a face is detected.




2. Aim at the object and then semi-press the shutter button to focus.



3. Press the shutter button to take a picture.



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

AF Assist Beam

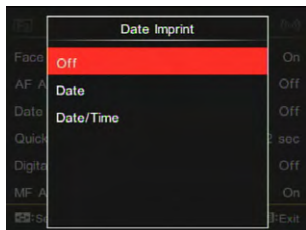
In a darker environment, AF Assist Beam can be turned on for better focus.



- Off
- On

Date Imprint

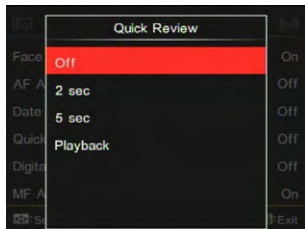
Include a Date/Time imprint on the photo image.



- Off
- Date
- Date/Time

Quick Review

This option can provide you immediate quick review on pictures after taking. Each picture will be displayed on the LCD screen at the time of being selected.



- Off
- 2 sec
- 5 sec
- Playback



If you select playback, the camera will directly enter PLAYBACK mode after each time of picture taking.

Quick Review – each shooting mode supports a corresponding album for quick review of pictures.

O-the number of seconds can be set;

X-the number of seconds cannot be set.

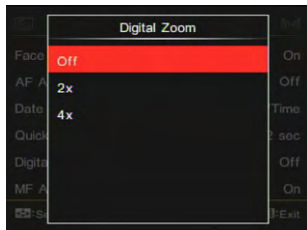
	Quick Review for 2 seconds or 5 seconds	Quick Review Playback ^{*1}	Closed Eyes Detection ^{*2}
Cat/Dog Self-timer	Fixed 2 sec	X	X
Smile	Fixed 2 sec	X	O
Panorama	O	O	X
Continuous Shot	Fixed 2 sec	X	X
Cont. Shot-Fast	Fixed 2 sec	X	X
Con. Time-lapse Shot	Fixed 2 sec	X	X
Video	X	X	X
HDR	O	O	O
WDR	O	O	O
Color	O	O	O
WB Bracketing	O ^{*3}	O	X
EV Bracketing	Fixed 2 sec	X	X
Time-lapse Movie	X	X	X
Others	O	O	O

Remarks:

- *1 A common quick review on pictures should be done before playback. The time of review depends on saving time.
- *2 The closed eyes detection needs to enable the face detection first.
- *3 The last picture can be reviewed as per settings of quick review. The total time of quickly reviewing the first two pictures is about 1 second.

Digital Zoom

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



- Off
- 2x
- 4x

MF Assist

For manually focusing on the object by operating the lens focus ring through manual. (Adjustable under the **PSAM** mode)



- Off
- On

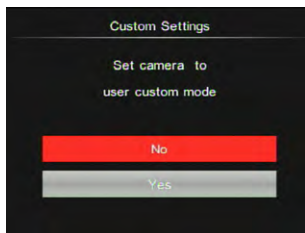
Shoot Settings 2 2

5 options in [Shoot Settings 2] :

- Custom Settings
- Image Size
- Movie Size
- Quality
- Flash Exp. Comp.

Custom Settings

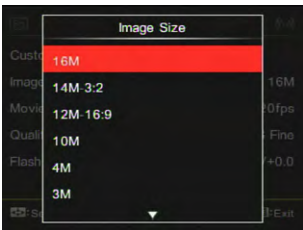
Custom Settings stores the current photo shooting mode and its parameters. The stored mode and parameters are directly invoked in Custom Settings mode.



- No
- Yes

Image Size

The size setting refers to the image resolution in pixels. A higher image resolution allows you to print that image in larger sizes without degrading the image quality.



The bigger the number of recorded pixels is, the better the image quality becomes. As the number of recorded pixels lessen, you will be able to record more images on a memory card.

- 16M: High quality printing
- 14M-3:2: Full size printing
- 12M-16:9: display
- 10M: Poster printing
- 4M: A3 printing
- 3M: A4 printing
- 2M-16:9: 4"x 6" printing
- VGA: E-Mail

Movie Size

Set the image resolution used during video recording.



Movie Size:

- 1920x1080: record with Full HD. The aspect ratio is 16:9.
- 1280x720: record with HD. The aspect ratio is 16:9.
- 640x480: record with standard definition. The aspect ratio is 4:3.

Time recorded in videoing with HD:

No.	Image Pixel	Frame (fps)	Recommendation	Recording time (about)	
				(4GB)	(8GB)
1	1920x1080	30	Class 6	30min	60min
2	1280x720	60	Class 6	32min	65min
3	1280x720	30	Class 4	59min	117min
4	640x480	30	Class 4	120min	250min
5	640x480	120	Class 6	54min	107min

Recording time limit above 1280x720 30 fps format is under 29 minutes.

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.

If 640x480 30fps is selected, you may be required to save the video file in another disk when it reaches 4GB.

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.

Quality

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




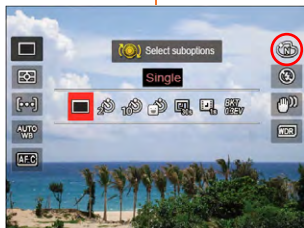
- RAW+JPEG Best
Creates two images: one in RAW and the other in JPEG best. (Average file size under 16M image size: 29.1MB+6.0MB)
- RAW
More data can be left on image. Serve the purpose of editing on computer. (Average file size under 16M image size: 29.0MB)
- JPEG Best (average file size under 16M image size: 2.6MB)
- JPEG Fine (average file size under 16M image size: 5.9MB)

The quality is on:

If RAW or RAW+JPEG is first on, the settings of Picture Effect, Continuous Shot, Cont. Shot-Fast, HDR, HDRPRO and AE Bracketing all cannot be adjusted.

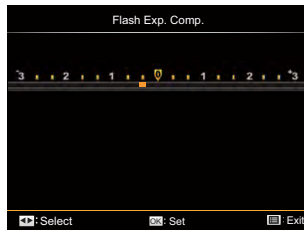


Press the  button



Flash Exp. Comp.

The flash exposure compensation is for adjusting flash volume so as to improve the brightness of background of the object. (Range from -3.0EV to +3.0EV, with 1/3EV as the increment.)



The flash exposure compensation cannot be adjusted if the flash is disconnected or closed.


Normal Settings

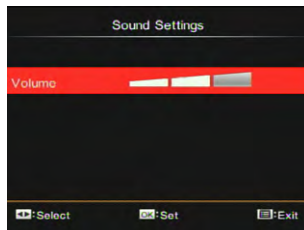
6 options in [Normal Settings] :

- Sound Settings
- Power Saver
- LCD Brightness
- Language
- World Time
- Date & Time

Sound Settings

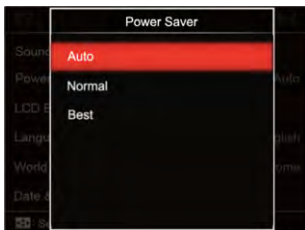
With this setting you may adjust the volume of sound in pressing buttons.

Press the [◀AE-L/AF-L] / [▶M/Ⓜ] button to adjust the volume and then press the  button to confirm your setting.



Power Saver

Power Saver This setting allows you to save power and get the maximum possible running time for your camera's batteries. Follow the steps below to turn the LCD screen and camera off automatically after a consecutive period of inactivity.




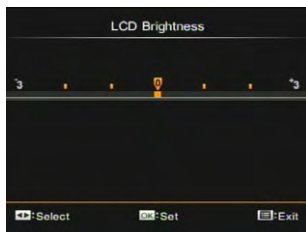
- Auto
- Normal
- Best

Power Saver	LCD power off time	Turn off time
Auto	3 min	5 min
Normal	1 min	3 min
Best	30 s	1 min

LCD Brightness

Use this setting to adjust the brightness of your LCD screen.

Press the [◀ AE-L/AF-L] / [▶ / ⓧ / Ⓞ] button to adjust the brightness of screen and then press the  button to confirm your setting.




Language

Refer to the “Reset your language” section on page 30.

World Time

When traveling abroad, you may use this function to display local time on the screen.

1. Press the [▲⏪/📄] / [▼Info] button to select the places of departure (🏠) and destination (🌐).
2. Press the [◀AE-L/AF-L] / [▶📄/🌐] button to select a city with same time shown in the field and then press the  button to confirm your setting.



Date & Time

Refer to the “Reset Date/Time” section on page 31.

File & Firmware Settings

6 options in [File & Firmware Settings] :

- Format
- Copy to Card
- File Numbering
- Reset Settings
- FW Version
- Cleaning Mode

Format

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

1. Press the **▲** / **☺** / **📷** / **]** / **[▼Info]** button to select **[Yes]** or **[No]** and then press the **(OK)** button to confirm your setting.



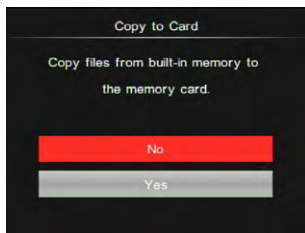
2. If you select **[Yes]** the camera formats its memory.



Note that when you perform the Format Memory function, it only formats the active memory. If a memory card is inserted, the memory card is active and will be formatted. If there is no memory card, the internal memory is active and the internal memory will be formatted. Formatting the memory card will not automatically format the internal memory.

Copy to Card

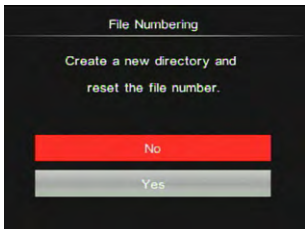
Use this setting to copy the files stored in the internal memory to a memory card.



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

File Numbering

After you complete taking pictures or videos, the camera will automatically save them as files and number them with serial numbers. You may use this function to decide whether a picture is numbered by following the previous picture number or renumbered and then saved in another new folder in the memory card.



Reset Settings

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



Version

You may use this option to check the camera current FW version.



Enter Setting of camera and select FW Version. There is a new version of FW in the memory card for updating:



Cleaning Mode

For clearing dust and debris on the sensor through high speed vibration.

Automatic

Press the Power button to make the camera on after selecting [On] and then the camera starts automatically cleaning the sensor.

