BenQ

Digital Camera
User Manual

GH680 / GH680F
GH688 / GH688F

Copyright

Disclaimer

Do not hold the camera by excessive force. Plus, be sure to protect the camera from strong impacts.

To avoid accidental falling, please attach the neck strap to the camera and always put the camera around your neck.

If the batteries suddenly depleted and caused the lens fail to retract, please carefully protect the lens to avoid collision and insert batteries with full power ASAP..

When the camera is not in use, always turn the power off. Plus, before storing the camera in its case, make sure the lens has retracted successfully and you put the lens cover back. If you do not intend to use the camera for a long time, please remove the batteries from the camera and store the batteries carefully.

Keep your camera away from sharp objects and avoid collision.
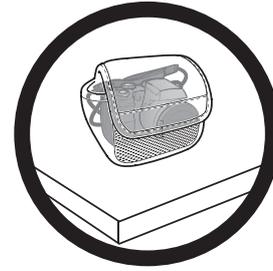
When the camera is not in use, please place it in the pouch and a steady place. Plus, always keep your camera away from pressure to avoid possible damage.

Federal communication commission interference statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tasted and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation exposure statement

This product comply with the FCC portable RF exposure limits set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

BenQ ecoFACTS

BenQ has been dedicated to the design and development of greener product as part of its aspiration to realize the ideal of the "Bringing Enjoyment 'N Quality to Life" corporate vision with the ultimate goal to achieve a low-carbon society. Besides meeting international regulatory requirement and standards pertaining to environmental management, BenQ has spared no efforts in pushing our initiatives further to incorporate life cycle design in the aspects of material selection, manufacturing, packaging, transportation, using and disposal of the products. BenQ ecoFACTS label lists key eco-friendly design highlights of each product, hoping to ensure that consumers make informed green choices at purchase. Check out BenQ's CSR Website at http://csr.BenQ.com/ for more details on BenQ's environmental commitments and achievements.

About this manual

In this user manual, the steps needed to reach a menu are shown in condensed form, for example: [icon] > Settings > Display.

Words highlighted in blue contain hyper links to further explanations.

Table of contents

Touring the camera

Checking the package contents

Carefully unpack your kit box and ensure that you have the following items.
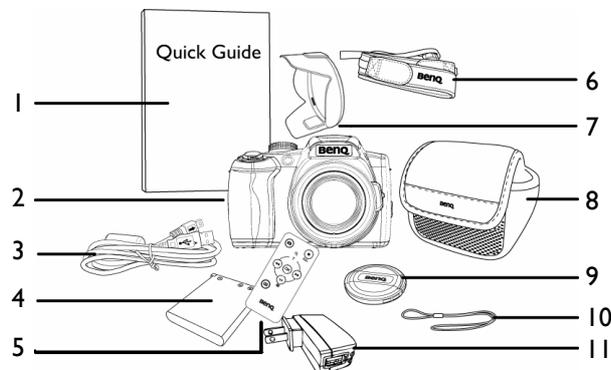
1 Quick guide	6 Neck strap
2 Digital Camera	7 Lens hood (optional)
3 USB cable	8 Pouch (optional)
4 Li-Ion battery	9 Lens cover
5 Remote Control (GH680F/GH688F only)	10 Lens strap
	11 USB adapter (The type of plug may vary depending on the country or region.)

- All pictures, screen captures, and icons used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.

- If any of the items is missing or damaged, contact your dealer.

- Save the packaging for future shipment or storage.

- It is normal for the camera to become warm during operation because the camera casing might conduct heat.

Camera

Front & back views
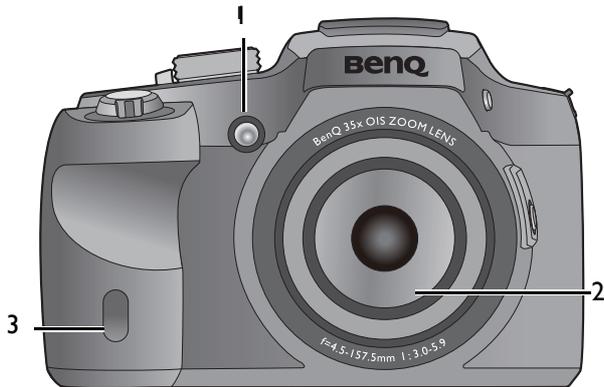
1. AF Assist Lamp / Self-timer LED indicator
2. Lens
3. IR Receiver (GH680F & GH688F only)

4. Q key (Wi-Fi for GH680F / GH688F only)
5. Playback button
6. OK button / 4-way control
7. Function / Delete button
8. Menu button
9. Swivel LCD screen

Top & bottom views
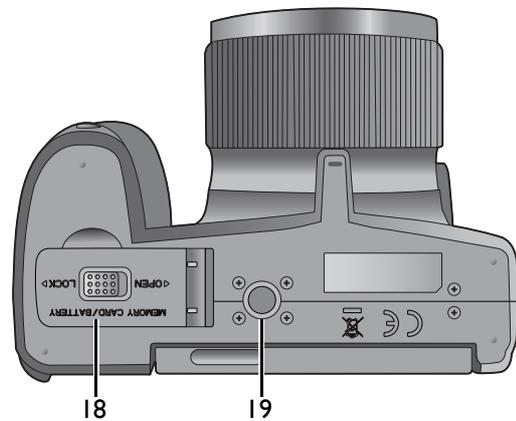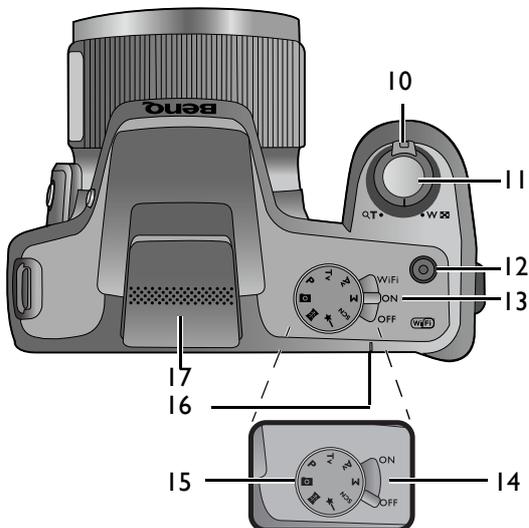
10. Zoom lever
11. Shutter button
12. Movie record button
13. Power / Wi-Fi lever (GH680F & GH688F only)
14. Power lever (GH680 & GH688 only)
15. Mode dial
16. Status LED
17. Microphone

18. Battery / card cover
19. Tripod mount

Right & left views
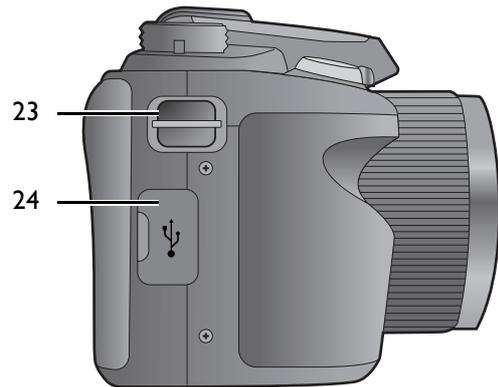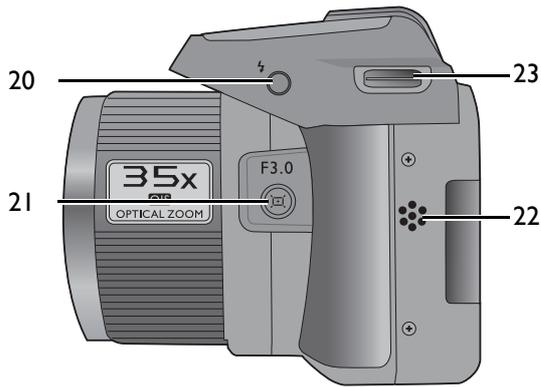
20.Flash button
21.Zoom framing assistant button
22.Speaker
23.Strap eyelet

23.Strap eyelet
24.USB / AV Out

LED indicator light behavior

Indicator	State	Description
Self-timer LED	Blinking red	The self-timer function is activated.
Status LED	Off	The camera is off.
	Solid green	The battery is fully charged.
	Blinking green	• The camera is updating firmware. • The camera is charging battery.

As battery is charged, the blink frequency increases.

4-way control and OK button

You can choose camera settings by pressing the 4-way control or (OK) button.
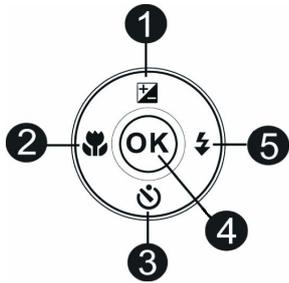
1. EV / **Up:**
- Changes EV settings.
- Navigates through the menu and submenu selections.

2. Focus / **Left:**
- Scrolls through focus options.
- Views the previous image or video clip in playback.
- Rewinds video playback.
- Exits a submenu or navigates through menu selections.

3. Self-timer / **Down:**
- Scrolls through self-timer options.
- Stops video playback.
- Navigates through menu and submenu selections.

4. **OK:**
- Confirms a chosen setting.
- Starts / Pause video playback.
- Pause when video recording.
- Enters a submenu or navigates through menu selections.

5. Flash / **Right:**
- Scrolls through flash mode options.
- Views the next image or video clip in playback.
- Forwards video playback.

Preparing the camera before using

This section will guide you on how to prepare the camera before its initial use.

Attaching the strap

1. Follow the illustrations below left to right to attach the strap to the camera.
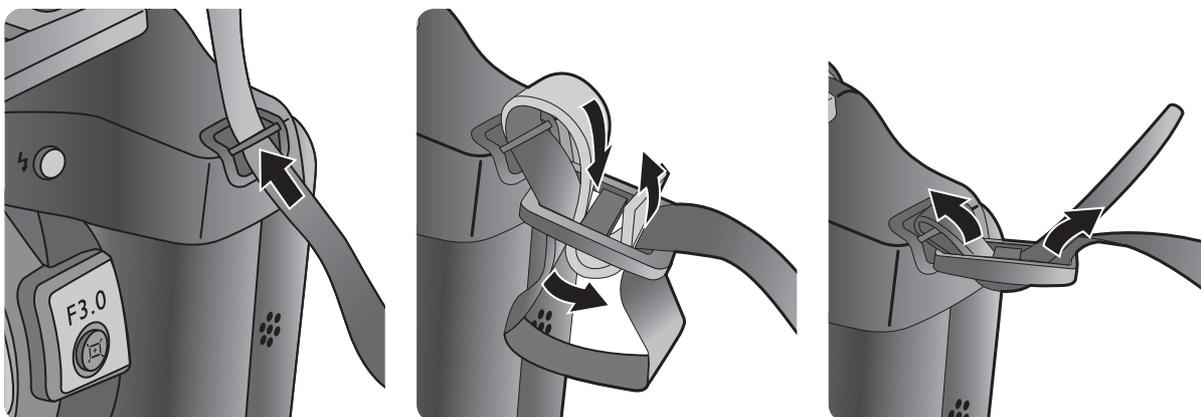
2. Apply the same steps on the other side of the strap eyelet, and you are done attaching the strap to the camera.
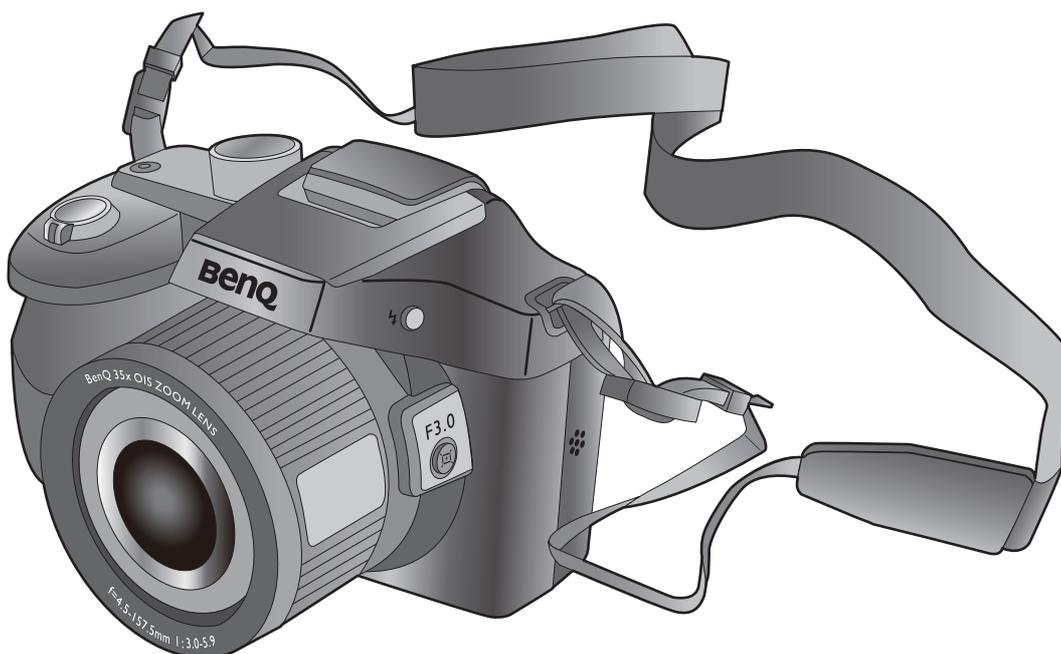
> • Wrapping the strap around your neck is dangerous. Refrain children from playing with the strap.
>
> • Remove the lens cover before using the camera.

Installing the battery

Use only the specified battery for the camera, and always turn off the camera before removing the battery.

To install the battery:

1. Unlock and open the battery/card cover.
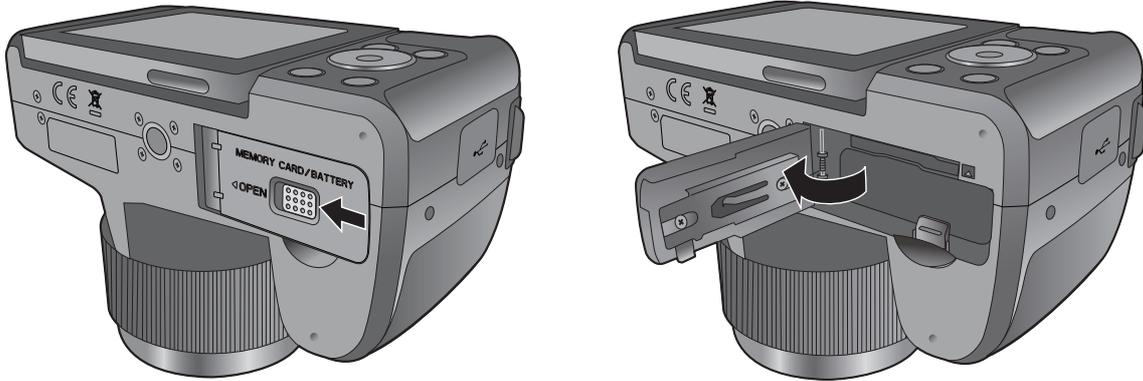
2. Fully insert the battery in the correct direction by matching the polarity label on the battery slot.
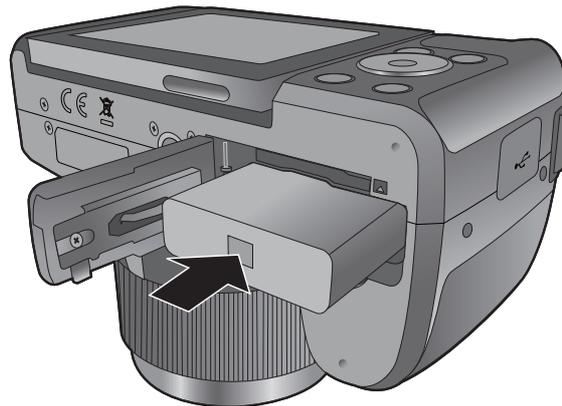
3. Close and lock the battery/card cover.
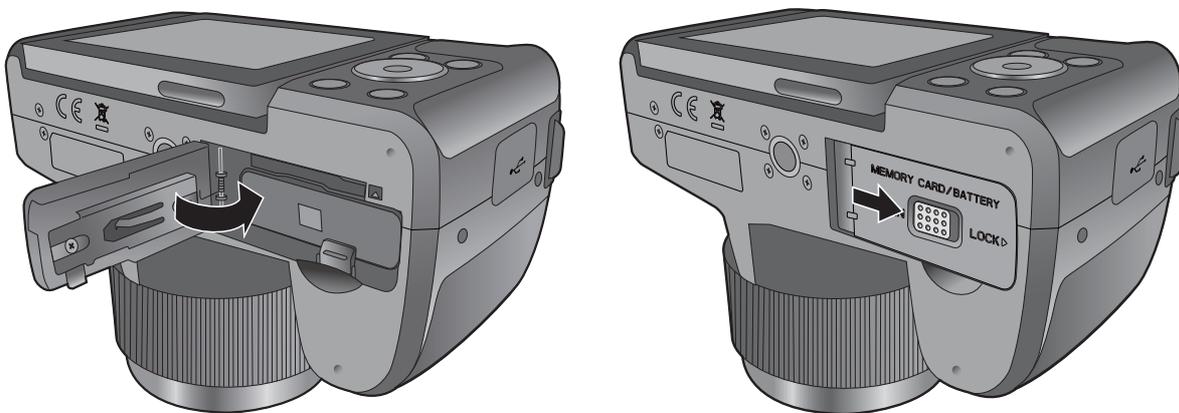
- Turn off the camera before removing the battery.
- Use only the specified battery type. Using other battery type may damage the camera and invalidate the warranty.
- Ensure that the battery is inserted into the product with correct polarity. Incorrect polarity may damage the camera or cause fire.
- Download all pictures and remove the battery from the camera if you are going to store the camera for a long time.
- The battery may be warm after being used. This is normal and not a malfunction.
- When using the camera in a cold environment, keep the camera and its battery warm by holding it inside your jacket or another warm protective environment.

Charging the battery

You must charge the battery before using the camera for the first time.

1. Open the USB / AV port cover.
2. Connect the end of the smaller plug of the USB cable to the camera.
3. Connect the other end of the USB cable to the USB adapter.
4. Plug the USB adapter to a wall outlet to start charging.

- Actual charging time depends on current battery capacity and charging conditions.
- You can also charge the battery via PC.
- Only use the supplied 5W adapter.

Battery status

You may check the battery status on LCD screen when turning on the camera.

Non-Charging mode	Charging mode	Description
▭	▭	Battery power is full.
▭	▭	Battery power remains adequate.
▭	▭	Battery power is low.
▭	▭	Battery power is very low. You should replace the battery.

Charging mode icons display only when the camera is turned on in playback mode before connecting charging cable to the camera.

Installing an SD card

The camera comes with internal memory for storing captured images or video clips. You can also add an SD card to store more files.

To install an SD card:

1. Unlock and open the battery / card cover.
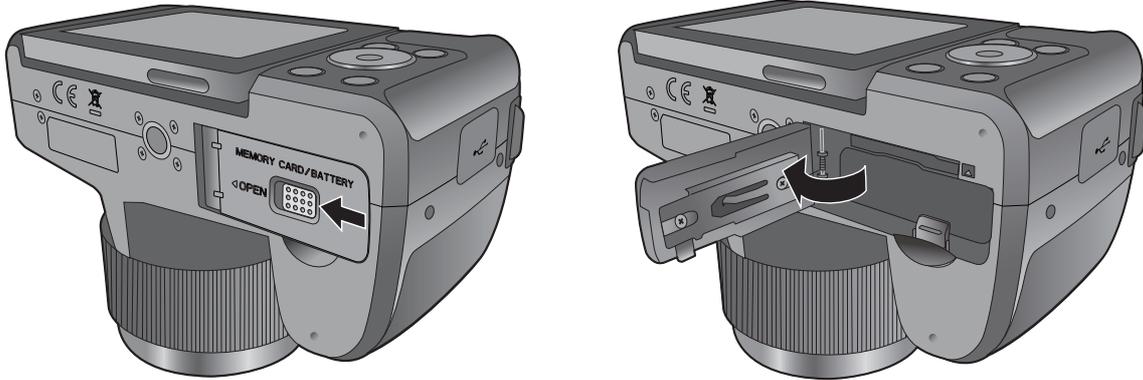
2. Insert an SD card in the correct direction.
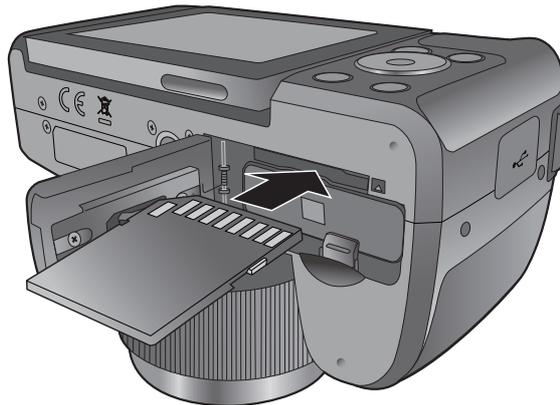
3. Close and lock the battery / card cover.
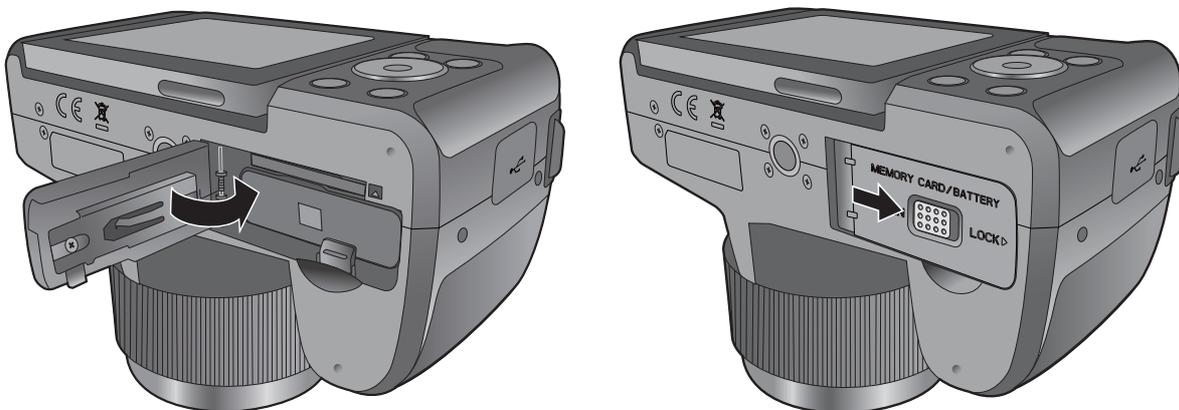
Before initial use of an SD card, please format the card first by pressing (MENU) > 🔧 > **Format** > (OK) / ⚡ > **Yes** > (OK).

To remove an SD card:

1. Unlock and open the battery / card cover.
2. Lightly press the edge of the memory card to eject.
3. Close and lock the battery / card cover.

Turning on and off

Before turning on the camera, be sure to remove the lens cover. Otherwise, the lens will not be extended and the camera will beep for a few times.

• Switch the power lever by the mode dial to **ON**, and the camera is turned on in capture mode.

• Switch the power lever by the mode dial to **OFF**, and the camera is turned off.

You will be prompted to setup the OSD language and the date and time when the camera is turned on for the first time.

Setting the OSD language

Selects the language to be shown on the screen.

To select a language:

1. Press (MENU) > 🔲 > **Language** 🔲🔲 .
2. Use 4-way control and press (OK) to locate and set the desired language.

Ignorance of the setting of language will lead OSD language to English as the default.

Setting date and time

When using the camera for the first time or when the battery has been removed from the camera for a long time, you need to set the date and time. The date and time is recorded when a video or image is captured.

To set date and time:

1. Press (MENU) > 🔲 > **Date & Time**.
2. Use 4-way control to move and select date, time, and date format. Press (OK) to set the date and time.

Lack of the setting of date and time will stop the time and remain the date by default.

Using the LCD screen

Flip the LCD screen outwards 180° to fully open.
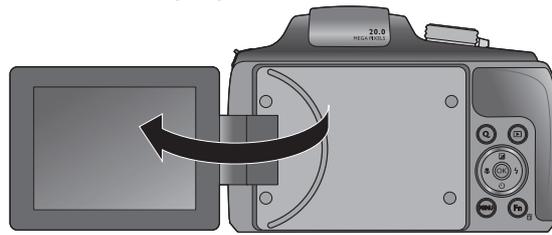
• For high- or low-angle photography, twist it down at the appropriate angle. You can rotate the screen to a maximum of 90° downward.
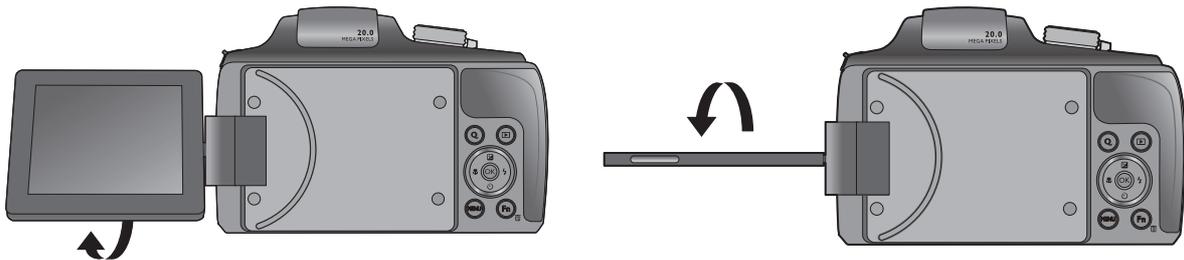
• For self portrait, rotate it up at the appropriate angle. You can twist the screen to a maximum of 180° upward.
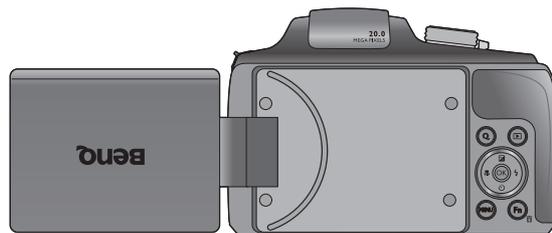
• In addition to flipping the LCD screen, you can rotate it 180° upward and fold it fully to the back of camera to secure its position.
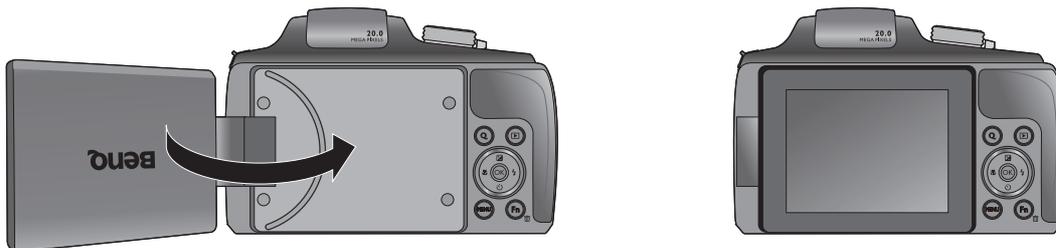
• To avoid damage to the screen hinge or LCD screen, do not twist the screen more than the angle allowed or place excessive force on the hinge or screen.

• The LCD screen on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD screen meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD screen may have some light spots or show unusual colors. This is normal and does not indicate screen malfunction, nor will this affect the pictures you take with the camera.

• The LCD monitor looks darker in strong sunlight or bright light. This is not a malfunction.

Using the shutter

• Press the shutter halfway to automatically adjust focus and exposure.

• Once the focus is set, the focus frame color will turn from white (unfocused) to green (focused).

• Press the shutter down fully to capture the image.

> To prevent your images from being blurred, always hold the camera steadily while pressing the shutter. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.

Opening the flash

You need to manually open the flash before switching the flash mode.

To open the flash:

Press the button ⚡ by the side of the flash to open it.

> Do not use your hands to forcibly open the flash.

To close the flash:

Push down the flash to close it.

> When the flash is closed, flash mode is automatically set to flash off.

Operating the camera

The procedure below is a general guideline for basic operation. It is particularly useful if you are new to the camera.

1. Removed the lens cover.
2. Use the power lever to turn the power on. LCD screen displays a BenQ logo while turning off the camera. Wait for the logo to disappear if you wish to turn on again.
3. Set the mode dial to desired shooting mode.
4. If you need to use the flash for shooting, press the flash button to open the flash.
5. Slide the zoom lever for zooms.
6. Press the shutter halfway to set automatic focus. Once the focus is set, the focus frame color will turn from white (unfocused) to green (focused).
7. Press the shutter down fully to capture the image.
8. To switch to movie mode, press ⊙. The video recording automatically starts. While recording, slide the zoom lever to 🔍T / W 🟦 for zoom-ins/zoom-outs. Press ⊙ again to stop video recording.
9. To switch to playback mode, press ▶. In playback mode, you can view captured images or recorded videos. You can use 4-way control to view other images/videos. Slide the zoom lever to 🔍T to zoom-in on a captured image or W 🟦 to view images in 9-thumbnail, 36-thumbnail, or calendar format on the screen.

> • Flash is automatically turned off in the movie mode.
>
> • In movie mode, the camera records both sound and video. The camera will automatically stop recording either when the video file size reaches 4GB or the recording time is more than 29 minutes.
>
> • At any time, you can use the power lever to turn off the camera.
>
> • During zoom-in/out, there is a separator in the zoom bar between **T** and **W**. For best image quality, it is recommended to use optical zoom only by keeping the magnification within **W** and the separator.
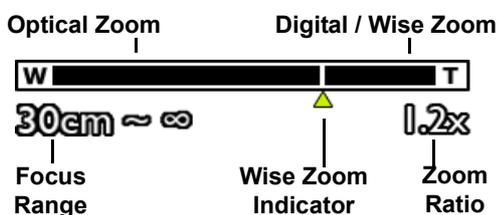
• Zoom Indication

The zoom operation can be activated by rotating the zoom lever. When the camera is turned on, the zoom is at maximum wide-angle position. When the camera is zoomed at maximum optical position, slide and hold the zoom lever at T to active the digital zoom to 8x under **Digital Zoom** setting, to 3x under **Wise Zoom** setting.

• Focus Range

Whenever the zoom lever is slid, the focus range at the current zoom point is displayed on the LCD screen.

• Wise Zoom Indicator

When **Wise Zoom** is enabled, the resolution setting is to 20M in 4:3 aspect ratio. As zooming in passed wise zoom indicator, the resolution will be reduced to maintain lucidity.

• Zoom Ratio

While rotating and holding the zoom lever to exceed the maximum optical position and enter the digital zoom, the zoom ratio is displayed on the LCD Screen.

Capturing still images

LCD screen display examples. Actual display may vary.

	Icon	Item	Description
A	**P**	Scene / Filter mode indicator	Indicates the current mode.
	(self-timer icon)	Self-timer	Indicates Self-timer settings.
	(focus icon)	Focus mode	Indicates focus is enabled.
	(flash icon)	Flash mode	Indicates flash settings.
	(flash EV icon)	Flash EV	Indicates the flash strength based on the EV setting.
	(AEB icon)	AEB (Auto Exposure Bracketing)	indicates burst mode/AEB settings.
	(zoom bar)	Zoom Indication	Displays zoom.
B	(O.I.S. icon)	O.I.S.	Indicates stabilizer function is enabled.
	(white balance icon)	White balance	Displays white balance settings.
	(color mode icon)	Color mode	Indicates color mode settings.
	(metering icon)	Metering	Displays metering settings.
	(ISO icon)	ISO	Displays ISO settings.
	(histogram)	Histogram	Graphic display of tonal distribution.
	1 / 250	Shutter speed	Displays shutter speed settings. (P/Av/TV/M)
	(focus frame)	Focus frame	Indicates focus area.
	(OK)	OK	Indicates to press the button. (Av/TV/M)
	F 5.6	Aperture value	Displays aperture settings. (P/Av/TV/M)

	Icon	Item	Description
C	1007	Number of recordable images	Indicates the remaining shots available.
	AE/AFL	AE/AF Lock	Indicates AE/AF Lock is enabled.
	ꙮ	Motion detection	Indicates motion detection is enabled.
	🌀	Wind cut	Reduces wind noise during movie recording.
	▯	Storage media	Indicates external storage media in use.
	20M	Resolution	Displays photo size settings.
	▨	Quality	Displays quality settings.
	720P 30FPS	Movie option	Indicates movie size.
	▮	Exposure meter	Displays Exposure bracketing settings. (M)
	EV+0.3	Exposure value	Displays exposure compensation settings.
	🔋	Battery	Indicates battery level.

Mode dial

Slide the mode dial to select one of the eight shooting modes:

Icon	Mode	Description
🔘	Auto	The camera automatically configures the appropriate settings, so you can capture images with ease.
P	Program	Shoots with automatic exposure adjustments and flexible parameter settings.
Tv	Shutter priority	You can choose a shutter speed, while the aperture value is automatically determined by the lighting condition of the subject.
Av	Aperture priority	You can choose an aperture value, while the shutter speed is automatically determined by the lighting condition of the subject.
M	Manual exposure	Lets you set exposure values of aperture and shutter speed manually.
SCN	Scene	Lets you select the desired scene mode that suits your shooting atmosphere.
✦	Filter	Lets you select the desired filter to apply to what you want to take.
▦	Panorama	Creates a panoramic photo by moving the camera.

✏️ Available menu options vary from input sources, functions, and setting. Grayed out when unavailable.

Auto

Use this mode to automatically configure appropriate settings, so you can capture images with ease.

Program

Use this mode to shoot with automatic exposure adjustments and flexible parameter settings.

Shutter priority

Shutter priority is often used when shooting moving subjects. In general, use a shorter shutter speed to catch a fast-moving object.

To adjust values in shutter priority mode:

1. Set the mode dial to **Tv** .
2. Press (OK) and use up / down of the 4-way control to adjust shutter speed.

Aperture priority

Aperture priority is often used when shooting static subjects or emphasizing the depth of field. In general, use a smaller aperture if a greater depth of field is needed.

To adjust values in aperture priority mode:

1. Set the mode dial to **Av** .
2. Press (OK) and use left / right of the 4-way control to adjust aperture value.
3. Press shutter to capture an image.

Manual exposure

You can choose the aperture value and shutter speed in manual exposure mode.

To adjust values in manual exposure mode:

1. Set the mode dial to **M**.
2. Press (OK) and use 4-way control to adjust aperture value and shutter speed.
3. Press shutter to capture an image.

Scene

Lets you select the desired scene mode that suits your shooting atmosphere.

To select a scene mode:

1. Set the mode dial to SCN.

2. Press (MENU) > **SCN**

3. Use up / down of the 4-way control to select desired scene mode.

Icon	Description	Icon	Description
	Smart Scene		Sunset
	Beauty Enhancer		Sports
	Portrait		Party
	Love Portrait	HDR	HDR
	Self Portrait		Background Defocus
	Night Portrait		Soft Flowing Water
	Night Scene		Pets & Kids
	Landscape		Backlight
	Fireworks		Zoom Exposure
	Snow		Text

• Slide the zoom lever to Q T to view information on the selected scene mode.

4. Press (OK) to confirm the setting.

Smart scene

Automatically selects a scene mode based on the current shooting environment.

1. Set the mode dial to SCN.
2. Press (MENU) > **SCN**
3. Use up / down of the 4-way control to select **Smart Scene** ( ).
4. Press (OK) to confirm the setting.
5. Press shutter to capture an image.

• Press (Fn) and use left / right of the 4-way control to select settings for RTAF (Full Time AF). Press (OK) to apply the setting.

• Available settings for RTAF are: **On** and **Off**.

Zoom exposure

Makes objects radiate with afterimages.

1. Set the mode dial to SCN.
2. Press (MENU) > SCN
3. Use up / down of the 4-way control to select **Zoom Exposure** (▦).
4. Press (OK) to confirm the setting.
5. Press shutter to capture an image.

• Takes pictures with a tripod for the best outcome.

• Press (Fn) and use left / right of the 4-way control to select settings for shutter time and direction. Press (OK) to apply the setting.

• Available settings for shutter time are: **Auto**, **1sec**, **2sec**, and **4sec**.

• Available settings for direction are: **Zoom In** and **Zoom Out**.

Filter

Select one of the following filter modes to add into your shooting condition.

To select a filter mode:

1. Set the mode dial to 🖌.
2. Press (MENU) > 🖌
3. Use up / down of the 4-way control to select a desired filter mode.

Icon	Description	Icon	Description
🖍	Inklines Effect	📷	Lomo
🖌	Colored Pencil	🎞	Cross Processing
🖌	Oil Painting	🧱	Toy
🖌	Sketch	⊙	Fisheye
✳	Astral	💠	Mirroring
🖌	Color Accent	⁝⁖	Duplicate Characters
🎁	MagiQ		

• Slide the zoom lever to 🔍 T to view information on the selected filter mode.

4. Press (OK) to confirm the setting.

Inklines effect

Emphasizes margins with ink.

1. Set the mode dial to ✴.
2. Press (MENU) > ✴
3. Use up / down of the 4-way control to select **Inklines Effect** (▨).
4. Press (OK) to confirm the setting.
5. Press shutter to capture an image.

Press (Fn) and use left / right of the 4-way control to select settings for white balance and color mode. Press (OK) to apply the setting.

Cross processing

Creates a cross processing image effect.

1. Set the mode dial to ✴.
2. Press (MENU) > ✴
3. Use up / down of the 4-way control to select **Cross Processing** (▣).
4. Press (OK) to confirm the setting.
5. Press shutter to capture an image.

Press (Fn) and use left / right of the 4-way control to select settings for white balance. Press (OK) to apply the setting.

Toy

Simulates a shallow depth of field by gradually blurring the top and bottom areas of a composition.

1. Set the mode dial to ✴.
2. Press (MENU) > ✴
3. Use up / down of the 4-way control to select **Toy** (▤).
4. Press (OK) to confirm the setting.
5. Press shutter to capture an image.

- Once selected toy, there are two parallel lines displayed on screen indicating the area in between will not be blurred but others will.

- Press (Fn) and use left / right of the 4-way control to select area options and settings for saturation and contrast. Press (OK) to apply the setting.

- Area options: **Area 1** ( ), **Area 2** ( ), **Area 3** ( ), **Area 4** ( ), **Area 5** ( ), and **Area 6** ( ).

Mirroring

Creates a mirror image effect.

1. Set the mode dial to .
2. Press (MENU) >
3. Use up / down of the 4-way control to select **Mirroring** ( ).
4. Press (OK) to confirm the setting.
5. Press shutter to capture an image.

- Press (Q) to switch the direction from up-down (default), left-right, down-up, or right-left.

- Focus frame does not appear under mirroring effect. Instead, an icon will be on the top right corner of the screen for indication.

- Press (Fn) and use left / right of the 4-way control to select settings for white balance and color mode. Press (OK) to apply the setting.

Duplicate characters

Puts up to 4 of the identical subject in the same taken scene into one photo.

OK

NG

1. Set the mode dial to ⭐.
2. Press (MENU) > ⭐
3. Use up / down of the 4-way control to select **Duplicate Characters** (▦).
4. Press (OK) to confirm the setting.
5. Setting the camera on a tripod is strongly recommended.
6. Press shutter to begin the multi-exposed shot with the first gesture.
7. Press shutter to take another shot with a different gesture for up to 4 takes in total, or press (OK) to finish and press (MENU) to cancel. Do not have subjects too close or overlap.

- Takes pictures with a tripod for the best outcome.
- After the first photo is taken, the zoom ratio will be locked until the shooting finished.
- Only will the last taken subject remain if subjects are too close or overlapped.
- Press (Fn) and use left / right of the 4-way control to select settings for direction, white balance, and color mode. Press (OK) to apply the setting.
- Please follow the direction setting in **Left-to-Right** / **Right-to-Left** while taking the multi-exposed shot.

Panorama

Use this mode to create a panoramic photo from multiple shots. You can combine several shots into one single image quickly and easily.

- Scenes will be taken based on 1280 x 720 pixels, but its actual size depends on the panoramic angle and stitching result.
- The actual size of stitched image varies from due to the panoramic angle and stitching result as well as the level of camera shaking.
- The direction is automatically detected. Once detected, a direction icon (indicating the direction) and a yellow line (for keeping moving straightly) appear. In addition, a shooting bar is displayed to indicate the shooting position.
- Press (Fn) and use left/right of the 4-way control to select metering setting and color modes. Press (OK) to apply the setting.
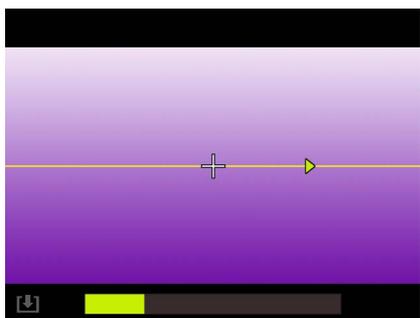
To create a panoramic image:

1. Set the mode dial to ▦ .

2. Fully press and hold the shutter to start shooting. The shooting automatically saves the image when finished a 360 degrees take or released the shutter after a 30 degree take (when the icon ⬇ is lit). When shooting starts, a white-cross locates on the center and a yellow line displays horizontally (or vertically) through the screen. In addition, a shooting bar displays to present the shooting position and the progress of the bar indicates where has been taken.

3. If you move camera without keeping straight, the yellow line will move with the moving scene.

4. When the progress of the bar goes to the end, the camera would finish automatically and save the panorama image.
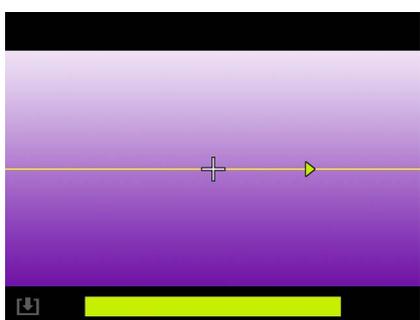
Self-timer

This button allows you to set the self-timer setting.

Icon	Mode	Description
⏱₁₀ / ⏱₂	10-Sec. / 2-Sec.	Automatically takes a picture after 2 or 10-second delay. This mode is useful when you want to be part of the picture.
⏱	10+2 Sec.	Performs delay and capture twice: Performs a 10-second delay, then captures the image. Performs another 2-second delay then captures the image again.
☺	Smile Catch	Takes one picture at a time if the camera detects a smiley face.
⏱off	Off	Takes one picture at a time.

To enable self-timer setting:

1. Set the mode dial to the desired shooting mode.

2. Press ⏱ and use left / right of the 4-way control to select your desired setting.

3. Press (OK) to confirm.

🖊 Not available for all shooting modes.

Focus

This button allows you to define the focus setting when capturing an image or a recording a video clip.

Icon	Mode	Description
AF	**Auto Focus**	With auto focus, the camera will focus on the subject automatically.
🌷	**Macro**	This mode is designed for close-up photography.
▦	**Object Tracking**	Focuses on the position of moving objects simultaneously.
👤	**Face Tracking**	Focuses on the position of faces simultaneously.

To select the focus setting:

1. Set the mode dial to the desired shooting mode.

2. Press 🌷 of the 4-way control and use left / right of the 4-way control to select your desired setting.

3. Press (OK) to confirm.

🖊 Not available for all shooting modes.

Flash

This button allows you to set the flash setting.

Icon	Mode	Description
⚡A	**Auto Flash**	The flash fires automatically based on the photographic conditions.
⚡	**Auto Anti Red-eye**	Reduces the red-eye phenomenon when capturing natural-looking image in low-light conditions. Be sure to have the subject look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.
⚡	**Forced On**	The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows.

Icon	Mode	Description
🌙🔽	**Slow Sync**	Fires the flash immediately at the beginning of exposure with a slow shutter speed, so ambient lighting of the foreground subject and background scene can be balanced in a low-light environment.
⚡🚫	**Forced Off**	The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

To select the flash setting:

1. Set the mode dial to the desired shooting mode.

2. Press the button ⚡ by the side of the flash to open it.

3. Press ⚡ of the 4-way control and use left / right of the 4-way control to select your desired setting.

> • The flash mode is not available in **Continuous shooting** modes.
>
> • When the flash is closed, flash mode is automatically set to flash off.

EV

EV (Exposure Value) lightens or darkens the entire image. Adjust EV when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the picture.

To adjust exposure value:

• Press 🔲 and use up / down of the 4-way control to select your desired value. The value increases or decreases at an interval of 1/3.

Under some circumstances, exposure value adjustment may not be applicable.

> When turning mode dial to manual exposure mode, the exposure meter display the exposure in real-time. If it is under or over exposed, i.e. exceeds +/- 2EV, the value is displayed -2.0EV (under -exposure) or +2.0 EV (over - exposure) in red. If it is normally exposed, the value is displayed in white.

Zoom framing assistant

When composing telephotographs, pressing and holding the zoom framing assistant button at the left side of the camera body will help you better flash back the image at a wide angle so that the subject can be kept in center easily. Releasing the button will set the image back at the previous tele angle.

1. The subject is not in the center of the frame.

2. Press and hold the button of zoom framing assistant to flash back the image at a wide angle for better framing the subject in the center.

3. Release the button to set the image back at the previous tele angle with the subject centered.

Selections in function button

Items selectable with (Fn) are:

	AEB (Auto Exposure Bracketing)		Flash EV		Saturation
	White balance		Color mode		Contrast
	ISO		Continuous shooting		RATF
	Metering		Sharpness		

AEB (Auto Exposure Bracketing)

Automatically takes 3 pictures with slightly different exposures at the EV you set.

Icon	Description	Icon	Description
AEB OFF	Function is disabled.	±0.3	Camera varies exposure by 0, –0.3, and +0.3 for three shots.
±0.7	Camera varies exposure by 0, –0.7, and +0.7 for three shots.	±1.0	Camera varies exposure by 0, –1.0, and +1.0 for three shots.

To set AEB photography:

1. Press (Fn) > **AEB**.

2. Use 4-way control to select an EV setting.

3. Press (OK) to confirm.

White balance

Compensates for color temperatures in different lighting conditions, so white and other colors can be displayed properly when capturing images.

Icon	Mode	Description
	Auto	Adjusts white balance automatically.
	Daylight	Used in bright daylight conditions.
	Cloudy	Used in twilight or shady conditions.
	Tungsten	Used when subjects lit by tungsten (incandescent) lighting.
	Fluorescent High	Adjusts for fluorescent lighting. Corrects the green hue of fluorescent lighting. Ideal for indoor photos under fluorescent lighting without a flash.
	Fluorescent Low	
	Flash	Adjusts for flash conditions.
	Manual	Used when you want to manually adjust white balance in a particular lighting condition.

To set white balance:

1. Press (Fn) > **White Balance**.

2. Use up / down of the 4-way control to enter the submenu and press (OK) to select an option.

    When selecting the Manual mode:

    • Point the camera at a blank sheet of white paper or something similar.
    • Use up / down of the 4-way control to select **Adjust**. The camera will automatically detect the proper colors.

3. Press (OK) to confirm setting.

ISO

ISO configures the camera sensitivity to light. The higher the ISO value, the brighter picture you can take in a low-light environment. Yet, you may see more noise in the picture as you increase the ISO value.

Icon	Description
ISO A	Automatically sets the ISO value.
ISO 100-1600	Automatically sets the ISO value within the range (maximum to ISO 1600) to suit the recording environment.
ISO 100 / ISO 200	Equivalent to color ISO 100/200 film. Used for fine weather condition or portrait shooting.
ISO 400 / ISO 800	Equivalent to color ISO 400/800 film. Used for cloudy or twilight shooting.
ISO 1600 / ISO 3200 / ISO 6400	Equivalent to color ISO 1600/3200/6400 film. Used for night scene or sports shooting.

To set ISO:

1. Press (Fn) > **ISO**.
2. Use left / right of the 4-way control to select an ISO value.
3. Press (OK) to confirm setting.

Metering

Icon	Mode	Description
▣	**Center Weight**	Detects the exposure of the entire shooting screen with emphasis around the center spot.
▭	**Matrix**	Detects the exposure based on multiple points in the subject area.
▨	**Spot**	Detects the exposure based on the center spot in the subject area.

To set metering:

1. Press (Fn) > **Metering**.
2. Use left / right of the 4-way control to select a metering option.
3. Press (OK) to confirm setting.

Flash EV

Adjusts the flash strength based on the EV setting.

To set flash EV:

1. Press (Fn) > **Flash EV**.

2. Use left / right of the 4-way control to select a flash strength option.

3. Press (OK) to confirm setting.

Color mode

Adds color filter effects to the image or video you want to capture.

Icon	Mode	Description
	Normal	No effects are added.
	Sepia	Adds an effect with reddish brown color tones, so the image or video looks old-fashioned.
	Black & White	Adds an effect with monochromatic color tones.
	Vivid	Adds an effect with very clear and bright color tones.
	Vivid Red	The image becomes reddish.
	Vivid Green	The image becomes greenish.
	Vivid Blue	The image becomes bluish.

To set color mode:

1. Press (Fn) > **Color Mode**.

2. Use left / right of the 4-way control to select a color mode option.

3. Press (OK) to confirm setting.

Continuous shooting

In this setting, you can take consecutive shots.

Icon	Setting	Description
	Single	Takes one picture at a time.
	Continuous	Continuously takes pictures as long as you keep pressing the shutter. Only will the first captured picture be auto-focused, and the flash is forced off.
	Continuous Burst	Continuously takes pictures at the speed up to 3fps as long as you keep pressing the shutter. The first captured picture needs to be auto-focus, and the resolution is limited to 5M.
	Speedy Burst 10 fps	Captures 10 shots instantly and the resolution is limited to 3M.

To set continuous mode:

1. Press (Fn) > **Continuous Shooting**.
2. Use left / right of the 4-way control to select a continuous shooting option.
3. Press (OK) to confirm setting.

Sharpness

This feature controls the sharpness of the image. Available options are **Hard** (▦) / **Standard** (▦) / **Soft** (▦).

To set sharpness:

1. Press (Fn) > **Sharpness**.
2. Use left / right of the 4-way control to select a option.
3. Press (OK) to confirm setting.

Saturation

This feature controls the saturation of the image. Available options are **Hard** (▦) / **Standard** (▦) / **Low** (▦).

To set saturation:

1. Press (Fn) > **Saturation**.
2. Use left / right of the 4-way control to select a option.
3. Press (OK) to confirm setting.

Contrast

This feature controls the contrast of the image. Available options are **Hard** (▦) / **Standard** (▦) / **Low** (▦).

To set contrast:

1. Press (Fn) > **Contrast**.
2. Use left / right of the 4-way control to select a option.
3. Press (OK) to confirm setting.

RATF

This feature activates full time AF at previewing on the LCD screen.

To set RATF:

1. Press (Fn) > **RATF**.

2. Use left / right of the 4-way control to select from **On** (🔲) / **Off** (🔲)

3. Press (OK) to confirm setting.

> ✏️ This feature is available only when mode dial turns to auto mode or scene mode with setting to **smart scene**.

Selections in menu button

Items selectable with (MENU) are:

Resolution	Quality	AF Area	Digital zoom	AF assist lamp
O.I.S.	Date stamp	Instant review	Motion detection	Q Key

Resolution

Icon	Description	Icon	Description
20M	20 megapixels (5152 x 3864)	2M	2 megapixels (1600 x 1200)
14M	14 megapixels (4288 x 3216)	VGA	VGA (640 x 480)
10M	10 megapixels (3600 x 2700)	3:2	3:2 12 megapixels (4288 x 2858)
8M	8 megapixels (3264 x 2448)	9M 16:9	16:9 9 megapixels (3968 x 2232)
5M	5 megapixels (2592 x 1944)	2M 16:9	16:9 2 megapixels (1920 x1080)
3M	3 megapixels (2048 x 1536)	1:1	1:1 9 megapixels (2992 x 2992)

To set resolution:

1. Press (MENU) > 📷 > **Resolution**.

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select an option.

3. Press (OK) to confirm setting.

> ✏️ Available resolutions vary from each mode.

Quality

Icon	Description	Icon	Description	Icon	Description
▩	**Super Fine**	▩	**Fine**	▩	**Normal**

To set image quality:

1. Press (MENU) > 📷 > **Quality**.

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select an option.

3. Press (OK) to confirm setting.

AF Area

This feature controls the AF area while auto-focusing. Available setting are **Multi** and **Single**.

To set AF area:

1. Press (MENU) > 📷 > **AF Area**.

2. Press (OK) or ⚡ to enter the preview.

3. Press (Q) to switch between **Multi** and **Single**.

   • If **Single**, use 4-way control to select an area.

4. Press (OK) to confirm setting.

🖊 The default value is different depends on each capture mode.

Digital zoom

While digital zoom interpolates the result back up to the pixel dimensions of the original, wise zoom reduces the resolution with ratio to maintain the image quality.

To set zoom control:

1. Press (MENU) > 📷 > **Digital Zoom**.

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select from **Digital Zoom** or **Wise Zoom**.

3. Press (OK) to confirm setting.

AF assist lamp

This function emits amber light allowing the camera to focus easily when half press the shutter button.

To set AF assist lamp:

1. Press (MENU) > 🔲 > **AF Assist Lamp**.

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select from **Auto** or **Off**.

3. Press (OK) to confirm setting.

O.I.S.

Reduces blur caused by camera vibration, and thus improves quality and clearness of both images and videos.

To set the O.I.S. for capturing images:

1. Press (MENU) > 🔲 > **O.I.S.**

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select from **On** or **Off**.

3. Press (OK) to confirm setting.

Date stamp

Imprints the date when a picture was taken on the picture itself.

To set the date stamp:

1. Press (MENU) > 🔲 > **Date Stamp.**

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select from **Date**, **Date & Time**, or **Off**.

3. Press (OK) to confirm setting.

Instant review

This feature sets the just taken photo for an instant review on LCD screen for one second.

To set instant review:

1. Press (MENU) > 🔲 > Instant Review.

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select from **On** or **Off**.

3. Press (OK) to confirm setting.

Motion detection

This feature automatically detects the motion of the subject.

To set motion detection:

1. Press (MENU) > 📷 > **Motion Detection**.

2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select from **On** or **Off**.

3. Press (OK) to confirm setting.

✏️ • If **Motion Detection** is enabled and a moving object is detected, the **Motion Detection** icon is turned to yellow.

• This feature is not available when the flash fires or in some shooting modes.

Q Key

This feature helps to set up a shortcut for quick access to a certain function in capture mode.

Available shortcuts for Q key					
AF Area	ISO	MWB	Color mode	Metering	Quality
Resolution	Movie option	AE-L	AF-L	AE-L&AF-L	

To set (Q):

1. Press (MENU) > 📷 > **Q key**.

2. Press (OK) or ⚡ to enter the submenu and use 4-way control to select a function.

3. Press (OK) to confirm setting

Recording videos

You can record video with this camera. Set the movie settings before you start recording a video.

> • The camera will automatically stop recording either when the video file size reaches 4GB or the recording time is more than 29 minutes.
>
> • Video recording begins with Full-time AF. You may set (Q) for use with AE/AF-Lock.

To record the video clip:

1. Press (●) to start recording.
2. Slide the zoom lever to zoom in/out on the subject.
3. Press (●) to stop recording.

LCD screen display examples. Actual display may vary.
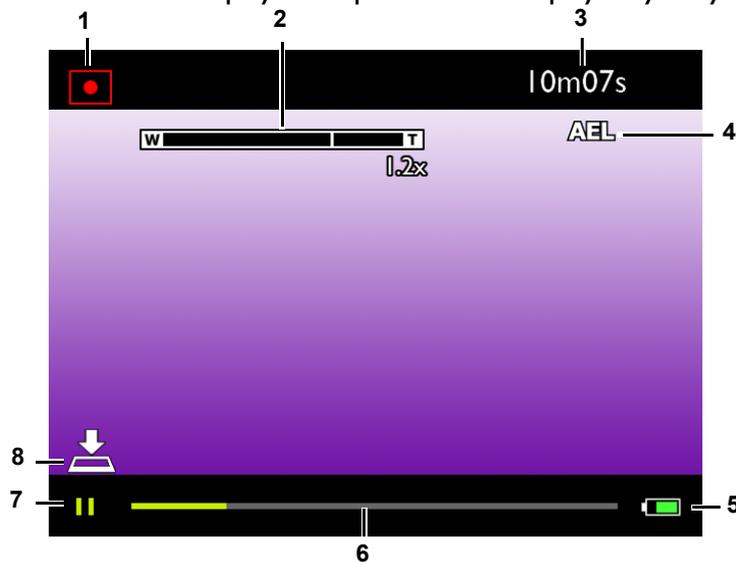
No.	Item	Description
1	Mode indicator	Indicates that the camera is in recording mode.
2	Zoom Indication	Displays zoom.
3	Elapsed time	Indicates time elapsed since recording begins.
4	AE/AF Lock	Indicates AE/AF Lock is enabled.
5	Battery	Battery level.
6	Recording bar	Indicates recording progress in available capacity.
7	Recording status	Indicates recording status.
8	Shutter indicator (PIV)	Indicates shutter is available while recording in progress.

Mode indicator (Recording)

This icon blinks until the recording session ends. When pause recording, this icon stops blinking.

Recording bar

Displays the progress of current recording in available capacity based the storage media volume size.

Recording status

When press (OK) to pause / resume the recording, the icon ▐▐ appears/disappears at the bottom left.

Shutter indicator (PIV)

This camera is capable of storing still images by fully pressing the shutter button while shooting movies. Numbers of photos can be stored while movie is recording vary from video resolutions. If the maximum number of photos is not reached, the icon is displayed and photo taking is available. Otherwise, the icon will NOT be displayed and photo taking is unavailable.

Using PIV function

During video recording, you can capture an image by pressing the shutter (the ⬇ icon appearing on the screen shows that you have taken one picture).

> • Please note that the movie keeps recording even though the icon disappears.
>
> • The feature PIV is applicable to video resolutions of 720p and VGA.
>
> • The resolution of PIV picture is the same as the setting in the Resolution menu.

Selections in menu button

Items selectable with (MENU) are:

Movie option   Autofocus mode   Wind cut   E.I.S.

Movie option

Icon	Description	Icon	Description
VGA 30FPS	640x480@30fps	VGA 15FPS	640x480@15fps
720P 30FPS	1280x720p@30fps	720P 15FPS	1280x720p@15fps

To select a movie size:

1. Press (MENU) > ▭ >**Movie Option**.

2. Press (OK) to enter the submenu and use up / down of the 4-way control to select an option.

3. Press (OK) to confirm setting.

> An external memory card with speed class 6 or above is required for 1280x720p recordings.

Autofocus mode

This feature controls the autofocus method in recording movies. Available options are **Single AF** (![AF S]) / **Full-time AF** (![AF F]).

To select an autofocus mode:

1. Press (MENU) > ![film] >**Autofocus Mode**.
2. Press (OK) to enter the submenu and use up / down of the 4-way control select from **Single AF** / **Full-time AF**.
3. Press (OK) to confirm setting.

Wind cut

Use this feature to reduce wind noise during video recording.

To enable Wind Cut:

1. Press (MENU) > ![film] > **Wind Cut**.
2. Use up / down of the 4-way control to enter the submenu and select **On** or **Off**.
3. Press (OK) to confirm setting.

E.I.S.

Reduces blur caused by camera vibration, and thus improves quality and clearness of both images and videos.

To set E.I.S. for recording movies:

1. Press (MENU) > ![icon] > **E.I.S.**
2. Press (OK) or ⚡ to enter the submenu and use up / down of the 4-way control to select from **On** or **Off**.
3. Press (OK) to confirm setting.

Images and videos playback

Press ⏵ to switch to playback mode.

Viewing still images
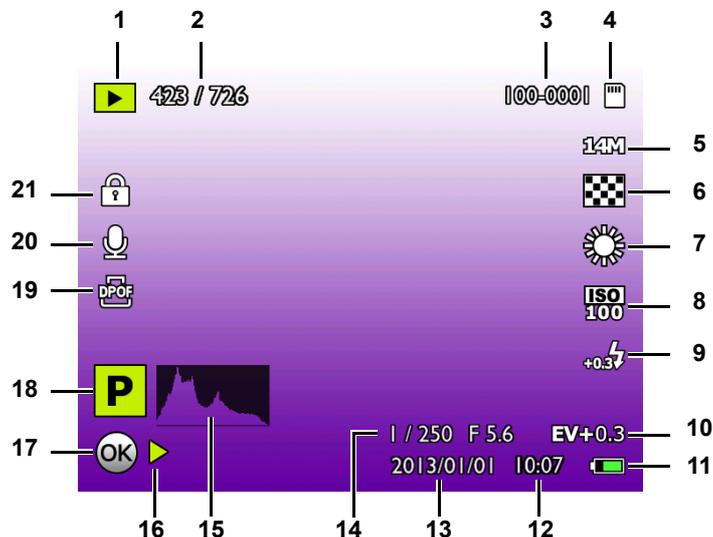
LCD screen display examples. Actual display may vary.

No.	Item	Description
1	Mode indicator	Indicates that the camera is in playback mode.
2	File / total number	File number / total number of files on the storage media.
3	File folder / index	File folder number / file number in the folder.
4	Storage media	Storage media type.
5	Image size	Resolution setting.
6	Quality	Indicates the image quality.
7	White balance	White balance setting used the image.
8	ISO	Image ISO value.
9	Flash EV	Image flash exposure value.
10	EV	Image exposure value.
11	Battery	Battery level.
12	Time	Image taken time.
13	Date	Image taken date.
14	Shutter speed & aperture value	Shutter speed and aperture used with the image.
15	Histogram	Graphical representation of tonal distribution in the image.
16	Play hint	Indicates the file as a voice memo, a movie, or a panorama.
17	OK	Indicates to press the button to play the file on the hint.
18	Scene mode	Indicates the mode the file taken with.
19	DPOF	Indicates the file is marked for printing.

No.	Item	Description
20	Voice memo	Indicates this file has a voice memo.
21	Protect	Indicates the file is protected from alteration.

Viewing videos
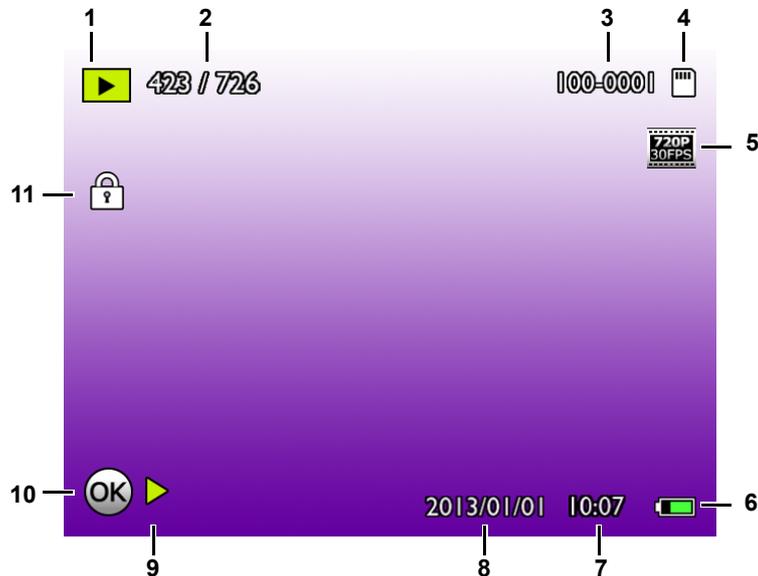
LCD screen display examples. Actual display may vary.

No.	Item	Description
1	Mode indicator	Indicates that the camera is in playback mode.
2	File / total number	File number / total number of files on the storage media.
3	File folder / index	File folder number / file number in the folder.
4	Storage media	Storage media type.
5	Video Quality	Video resolution and frame rate.
6	Battery	Battery level.
7	Time	File taken time.
8	Date	File taken date.
9	Play Hint	Indicates the file as a movie.
10	OK	Indicates to press the button to play the file on the hint.
11	Protect	Indicates the file is protected from alteration.

Options for playback and editing

When the camera is in playback mode, use left / right of the 4-way control to view the next/previous recorded files. You can also select any of the following options.

Enlarging an image

Magnifies an image, so more details can be seen.

To enlarge an image:

1. Press 🔘 to switch to playback mode.

2. Use left / right of the 4-way control to select the image you want to enlarge.

3. Slide the zoom lever to 🔍T to zoom-in or W ▦ to zoom-out on a captured image.

4. Use 4-way control to move to the area you want to view.

Trimming

Crops part of an image file and saves it as another new file.

To trim an image:

1. Press 🔘 to switch to playback mode.

2. Use left / right of the 4-way control to select the image you want to trim.

3. Slide the zoom lever to 🔍T to zoom-in or W ▦ to zoom-out on a captured image.

4. In zoom mode, slide the zoom lever to adjust the zoom ratio.

5. Use 4-way control to locate the area you want to trim.

6. Press (OK) and use up / down of the 4-way control to select and confirm to save the image file.

Viewing multiple files at a time

Shows up to 36 images at a time on the screen.

To view multiple files:

1. Press 🔘 to switch to playback mode.

2. Slide the zoom lever to W ▦ to view images in 9-thumbnail, 36-thumbnail, or calendar format on the screen. Use 4-way control to select a file and press (OK) to view it in its normal viewing size.

> ✏️ If there are 9 thumbnails or more, a scroll bar appears on the screen.

Playing back video clips

View recorded video clips in the playback mode.

To view a video clip:

1. Press 🔘 to switch to playback mode.

2. Use left / right of the 4-way control to select the video clip you want to view.

3. Press (OK) to start playing the video clip.

4. Use 4-way control to stop, pause, or resume the video clip.

> • During video playback, use right / left of the 4-way control to fast forward or rewind.
>
> • While pausing video playback, use left / right of the 4-way control to view the video frame by frame. Press right / left of the 4-way control to forward or rewind for one frame. Press and hold right / left of the 4-way control to fast forward or rewind frame by frame continuously.

Adjusting the playback volume

Increases or decreases the volume of a video clip or voice memo during playback.

To adjust the playback volume:

1. Press �️ to switch to playback mode.

2. Use left / right of the 4-way control to select a video clip or voice memo that you want to play.

3. Press (OK) to start playing.

4. Slide the zoom lever to adjust volume.

> The volume can only be set during playback, but not during rewind, fast forward, or pause.

Slideshow

Sets the time interval for presenting a series of captured image and video files (first frame only).

To play a slideshow:

1. Press ⏸ to switch to playback mode.

2. Press (MENU) > **Slideshow** and press (OK).

3. Use 4-way control to select **Interval** and **Repeat**.

4. Select **Start** and press (OK) to play the slideshow.:

> To pause the slideshow, press (OK). Press (OK) again to resume playback. To stop the slideshow, press ⏱.

Deleting files

Deletes selected or all files.

To delete a single file:

1. Press ⏸ to switch to playback mode.

2. Press (MENU) > ▶.

3. Use up / down of the 4-way control to select **Delete** > **Single** and press (OK).

4. Use left / right of the 4-way control to select and confirm the file that you want to delete.

5. Repeat steps 2~4 to delete other files.

✏️ You may also directly press (Fn) for deleting an image quickly at anytime in playback mode.

To delete selected files:

1. Press (▶) to switch to playback mode.

2. Press (MENU) > ▶️.

3. Use up / down of the 4-way control to select **Delete** > **Select** and press (OK).

4. The images are displayed in thumbnail view.

5. Use 4-way control and (MENU) to select and mark the files that you want to delete. A 🗑 icon appears on the marked files.

6. Press (OK). A confirmation message appears on the screen. Use up / down of the 4-way control to select **Yes** and press (OK) to confirm.

To delete all files:

1. Press (▶) to switch to playback mode.

2. Press (MENU) > ▶️.

1. Use up / down of the 4-way control to select **Delete** > **All** and press (OK).

2. A confirmation message appears on the screen. Use up / down of the 4-way control to select **Yes** and press (OK) to confirm.

Protecting files

Prevents selected files from accidental removal.

To protect a single file:

1. Press (▶) to switch to playback mode.

2. Press (MENU).

3. Use up / down of the 4-way control to select **Protect** > **Single** and press (OK).

4. Use left / right of the 4-way control to select and confirm the file that you want to lock.

5. Repeat steps 2~4 to protect other files.

✏️ • A 🔒 icon appears on the protected file.

• To unlock a protected file, select **Unlock**.

To protect multiple files:

1. Press ⊡ to switch to playback mode.

2. Press (MENU).

3. Use up / down of the 4-way control to select **Protect** > **Select** and press (OK).

4. The images are displayed in thumbnail view.

5. Use 4-way control and (MENU) to select and mark the files that you want to delete. A ⊟ icon appears on the marked files.

6. press (OK) to confirm.

🖊 If the ⊟ icon does not appear on the thumbnail images, this indicates the files are not protected.

To protect all files:

1. Press ⊡ to switch to playback mode.

2. Press (MENU).

3. Use up / down of the 4-way control to select **Protect** > **Lock All** and press (OK).

4. The images are displayed in thumbnail view.

5. A confirmation message appears on the screen. Use up / down of the 4-way control to select **Yes** and press (OK) to confirm.

🖊 You can remove the protection anytime by following the same procedure as shown above. Note that in Step 3 select **Unlock All** to unlock all files.

Voice memo

Inserts a voice annotation to an image file.

To record a voice memo:

1. Press ⊡ to switch to playback mode.

2. Use left / right of the 4-way control to select the image you want to add a voice memo.

3. Press (MENU).

4. Use 4-way control to select **Voice Memo** and press (OK).

5. A confirmation message appears on the screen. Use up / down of the 4-way control to select **Start** and press (OK) to start voice recording.

6. During recording, press (OK) to stop recording.

🖊 • The maximum audio recording time is 30 seconds.

  • An 🎤 icon appears on the file that is attached with voice memo.

To play a voice memo:

1. Press ⏯ to switch to playback mode.

2. Use 4-way control to select the image with a voice memo.

3. Press (OK) to play the voice memo.

4. Press (OK) to stop the playback.

✏️ Slide the zoom lever to adjust volume during playback.

Startup image

Sets your favorite image as the startup image on LCD screen when turning on the camera.

To set startup image:

1. Press ⏯ to switch to playback mode.

2. Press (MENU).

3. Use up / down of the 4-way control to select **Startup** and press (OK).

4. Use left / right of the 4-way control to choose the photo and press (OK).
    - **Default**: use the default image as the startup image.
    - **My Photos**: pick one of your captured photos in the camera as the startup image.
    - **Off**: no startup image.

Copying images

Copies files between internal memory and memory card.

✏️ This feature is only available if an unlocked memory card is inserted into the camera.

To copy selected files:

1. Press ⏯ to switch to playback mode.

2. Press (MENU).

3. Use 4-way control to select **Copy** and press (OK).

4. Choose the target, and press (OK).
    - **Copy to Card**: copy files stored in camera into the memory card.
    - **Copy to Camera**: copy files stored in the memory card into the camera's internal memory.

5. Use up / down of the 4-way control to select **Selected Images** and press (OK).

6. Use left / right of the 4-way control to select the file you want to copy and mark or unmark the file for copying. Once marking is done, press (OK).

7. Use 4-way control to select **Yes** and press (OK).

8. A confirmation message appears on the screen. Use 4-way control to select **Yes** and press (OK).

To copy all files:

1. Press (▶) to switch to playback mode.

2. Press (MENU).

3. Use up / down of the 4-way control to select **Copy** and press (OK).

4. Choose the target, and press (OK).
   - **Copy to Card**: copy files stored in camera into the memory card.
   - **Copy to Camera**: copy files stored in the memory card into the camera's internal memory.

5. Use up / down of the 4-way control to select **All Images** and press (OK).

6. A confirmation message appears on the screen. Use up / down of the 4-way control to select **Yes** and press (OK).

DPOF

The Digital Print Order Format (DPOF) setting allows you to select images on the memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.

To set up DPOF:

1. Press (▶) to switch to playback mode.

2. Press (MENU).

3. Use up / down of the 4-way control to select **DPOF** and press (OK).

4. Use up / down of the 4-way control to select **Single** or **All** and press (OK).

5. Use left / right of the 4-way control to select the files that you want to mark for printing (if **Single** selected) and specify the number of copies.

6. Press (OK) to set the DPOF setting.

To reset DPOF:

1. Press (▶) to switch to playback mode.

2. Press (MENU).

3. Use up / down of the 4-way control to select **DPOF** and press (OK).

4. Use up / down of the 4-way control to select **Reset** and press (OK).

5. A confirmation message appears on the screen. Use up / down of the 4-way control to select Yes and press (OK) to confirm DPOF resetting.

Resizing an image

Changes an image file to a smaller size, and overwrites the image file or saves it as another new file.

To resize an image:

1. Press (▶) to switch to playback mode.

2. Use left / right of the 4-way control to select the image you want to resize.

3. Press (MENU).

4. Use up / down of the 4-way control to select **Resize** and press (OK).

5. Use up / down of the 4-way control to select the target image size to which you want to resize and press (OK).

6. A confirmation message appears on the screen. Use up / down of the 4-way control to select **Save as** and press (OK) to confirm the change and save the image file.

The resize image is saved as a new file.

Rotating an image

Changes the orientation of an image at each 90 degrees clockwise.

To rotate an image:

1. Press (▶) to switch to playback mode.

2. Use left / right of the 4-way control to select the image you want to rotate.

3. Press (MENU) > ▶ .

4. Use 4-way control to select **Rotate Image** and press (OK).

5. Use 4-way control to select a photo in a desired angle you want to keep.

6. Press (OK) to save the image file.

Other settings

Press (MENU) > ⚙ and then select an option.

Option	Submenu	Description
Display	Hide Info	Turns on or off information on LCD screen.
	Electronic Level	Turns on or off for electrical leveling assistance of composition. Overrides histogram, guide line, and movie frame when turned on.
	Histogram	Turns on or off for graphic display of tonal distribution.
	Guide Line	Turns on or off to assist photo composition.
	Movie Frame	Turns on or off to assist video composition.
Sounds	Silent	Sets system sound on or off.
	Startup	Sets startup sound on or off.
	Shutter	Sets shutter sound on or off.
	Sys. Volume	Adjusts system sound volume.
Power Saving	10 sec.	For power conservation, the camera automatically enters the standby mode after it has been idle for a period of time. (Press any key to resume.)
	30 sec.	
	1 min.	
	3 min.	
	Off	The camera remains on when idle.
LCD Brightness	Auto	The LCD brightness is automatically set based on the surrounding environment.
	High	The LCD brightness is increased.
	Normal	The LCD brightness remains at the default value.
Date & Time		Sets the date and time. Refer to Setting date and time for detail.
Language		Selects a language for display menus and other information. Refer to Setting the OSD language for detail.
Create Folder	Serial	Entitles created folders in serial numbers.
	Monthly	Entitles created folders by months.
	Daily	Entitles created folders by days.
File no. Reset	Yes	Resets file number counting.
	Cancel	
Format	Yes	Formats the internal memory or the storage media.
	Cancel	
Auto Rotation	On	Switches orientation automatically when rotating the LCD display.
	Off	Disables auto-rotation feature.
TV Setting	NTSC	Sets output television encoding system.
	PAL	

Option	Submenu	Description
Remote Control	**On**	Enables IR receiver.
	Off	Disables IR receiver.
Reset All	**Yes**	Resets the entire menu and button operation settings to initial defaults except settings of **Date & Time**, **Language**, **TV**, and Manual **White Balance**.
	Cancel	
Firmware	**Yes**	Updates camera firmware if a firmware file is found on the memory card. Shows firmware version only if no firmware file on the card.
	Cancel	Top-notch branded memory cards are recommended. Formatting memory cards and loading firmware onto cards before updating.

Accessory: remote control (GH680F/GH688F only)

- Remove the insulation spacer at the bottom back of the remote control before first using.
- Enable the camera IR receiver:
  Switch the power lever by the mode dial to **ON**.

  Press ⏯ to switch to playback mode.

  Press (MENU) > ⚙ and use 4-way control to select **Remote Control** and press (OK).

  Use 4-way control to select **On** and press (OK).

- Please keep the remote control in line of sight to the camera IR receiver for optimal reception.

Remote Control Buttons		Preview	Playback
	📷	Capture	Not available
	⏺	RATF ON: Start / Stop recording RATF OFF: Start recording with one time AF / Stop recording	Not available
	⏪	Not available	Previous image / Rewind video / Left (when the image is enlarged.)
	⏩	Not available	Next image / Forward video / Right (when the image is enlarged.)
	T	Zoom In	3x enlarge single image view / Decrease thumbnail view / Up (when the image is enlarged.)
	W	Zoom Out	Increase thumbnail view / Down (when the image is enlarged.)
	OK	Not available	Restore single image view/ Start / Stop video playback
	⏯	Set preview mode to playback mode	Set playback mode to preview mode
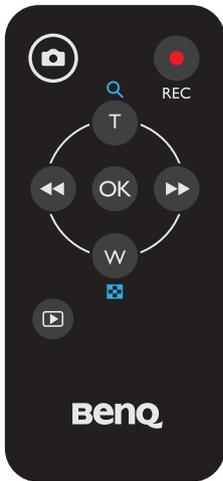
Accessory: lens hood

Using lens hood with your camera can effectively prevent stray light and thus enhance image clarity and color restoration. Your camera comes with a lens hood, and you may apply it to the camera with petals forward or backward for photography or temporary placement.
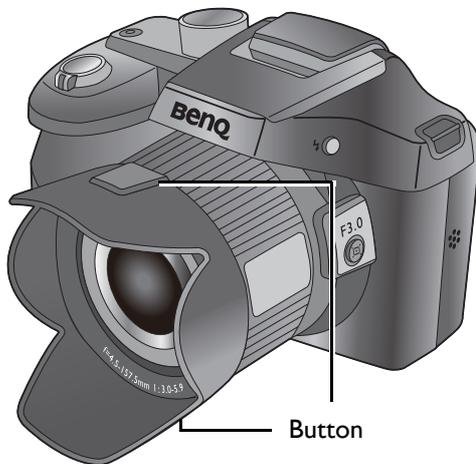
Button

Button

For photography:

1. Press and hold both buttons to release the hook inside of the lens hood.
2. With one of the buttons directs to BenQ logo, insert the lens hood to the camera and release buttons as shown above.

Fail to direct to BenQ logo may interfere compositions of photography.

For temporary placement:

1. Press and hold both buttons to release the hook inside of the lens hood.
2. With one of the buttons directs to Zoom framing assistant button, insert the lens hood to the camera and release buttons as shown above.

Fail to direct to Zoom framing assistant button will not fit the lens hood into the camera.

Connection to the camera

Wired connection

Connecting the camera to a TV set

To connect the camera to a TV using AV cable:

1. Open the USB / AV port cover.
2. Connect the TV and camera.
   - Connect the end of the smaller plug of an AV cable to the USB / AV port of the camera.
   - Connect the yellow video plug and the white audio plug of the AV cable to a video-input jack and an audio-input jack (left channel) on your TV.
3. Turn on the TV, and then switch the input source of the TV to "AV".
4. Turn on the camera.

Follow the on-screen instructions to operate the camera via the TV.

Connecting the camera to a computer

You can connect the camera to a desktop or a laptop to transfer, view, print, or edit files.

To connect the camera to a computer:

1. Open the USB / AV port cover.
2. Connect the end of the smaller plug of the USB cable to the USB / AV port of the camera.
3. Turn on the camera.
4. Connect the other end of the USB cable to an available USB port on your computer.
5. On your computer, a removable disk icon appears. Click this icon to access the files in your camera.

> When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

Connecting the camera to a printer

In addition to printing images via a computer's printer or a photo center, you can choose to print using a PictBridge-compatible printer.

Printing with PictBridge

You can directly print images by connecting your camera to a PictBridge-compatible printer without using a computer.

To print images from a PictBridge-compatible printer:

1. Open the USB / AV port cover.

2. Connect the end of the smaller plug of the USB cable to the USB / AV port of the camera.

3. Connect the other end of the USB cable to an available USB port on your printer.

4. Turn on the printer. Wait for a while until it finishes starting up and is ready to print.

5. Turn on the camera.

6. On the camera, use up / down of the 4-way control to select from **Print One**, **Print All**, **Print Index**, and **DPOF**. Press (OK) to launch the copy setting.

   • **Print Select**: to print selected images.

      1. Use up / down of the 4-way control to select **Print Select** and press (OK).

      2. Press (OK), and use left / right of 4-way control to select the image that you want to mark for printing and use up / down of 4-way control to specify the number of copies. Press (OK) when finished.

      3. Use up / down of the 4-way control to select **Paper Size** and **Quality**, and use left / right of the 4 way control to adjust settings.

      4. After all settings are completed, use up / down of the 4-way control to select **Print** and press (OK) to start printing.

   • **Print All**: to print all images at a time.

      1. Use up / down of the 4-way control to select **Print All** and press (OK).

      2. All images are marked for printing and the number of printing copies is automatically set to 1.

      3. Use left / right of the 4-way control to view the files and use up / down of the 4-way control to adjust the number of copies.

      4. Use up / down of the 4-way control to select **Paper Size** and **Quality**, and use left / right of the 4 way control to adjust settings.

      5. After all settings are completed, use up / down of the 4-way control to select **Print** and press (OK) to start printing.

   • **Print Index**: to print an index of all images.

      1. Use up / down of the 4-way control to select **Print Index** and press (OK).

      2. Use up / down of the 4-way control to select **Paper Size** and **Quality**, and use left / right of the 4 way control to adjust settings.

      3. After all settings are completed, use up / down of the 4-way control to select **Print** and press (OK) to start printing.

   • **DPOF**: to print only the images with DPOF tag.

      1. Use up / down of the 4-way control to select **DPOF** and press (OK).

      2. Use left / right of the 4-way control to view the files and use up / down of the 4-way control to adjust the number of copies.

      3. Use 4-way control to select **Paper Size** and **Quality**.

4. After all settings are completed, use up / down of the 4-way control to select **Print** and press (OK) to start printing.

- The maximum number of copies is 99.
- The above procedure may vary depending on the printer type you are using.
- If you connect the camera to your printer while the printer is still starting up, the camera will be automatically turned off.
- Failure to follow the above procedure will make the camera show an error message. Please disconnect the camera and the camera will be automatically turned off.

Wireless connection (GH680F/GH688F only)

Camera network settings

To configure your camera network settings:

1. On your camera, switch the power lever by the mode dial to **Wi-Fi**, and the LCD screen of the camera is displayed as below.

2. Pressed (MENU), you shall see listed items including **Wi-Fi ID**, **Q Key, Send Image Resolution**, **Network**, **MAC Address**, and **Logout BenQ Cloud** (exposed only when logged onto BenQ Cloud).

3. Use 4-way control and press (OK) key to select desired item, or press (MENU) to exit.

Wi-Fi ID

Wi-Fi ID is used for recognition when using smartphones to directly connect to the camera.

To set **Wi-Fi ID**:

1. Use 4-way control and press (OK) to enter **Wi-Fi ID**.

2. The SSID of the camera is displayed, and the SSID password can be changed at this time by pressing (OK).

3. A virtual keyboard will appear. Use 4-way control and press (OK) key to select a desired character at a time.

4. Select **DONE** when password changing completed or press (MENU) to go back to previous menu.

> • Default SSID of the camera is "BenQ_Model Name_MAC address" with default password "12345678".
>
> • The MAC Address is six pairs of hexadecimal digits separated by colons in transmission order (e.g. 01:23:45:67:89:AB). The character A ~ F is in capital.

Q Key

Q Key is a convenience when a short cut is needed to reach a certain function when switched the power lever to **Wi-Fi** and browsing photos in the camera.

To set **Q Key:**

1. Use 4-way control and press (OK) to enter **Q Key.**

2. Use 4-way control and press (OK) to select desire function from **Smart Device** (Default), **BenQ Cloud**, **QR Sharing**, **E-mail**, **Sina Weibo**, **Q-Zone**, or **Facebook** to assign to **Q Key.**

> ✎ Please switch to **Playback** mode and press (Q) for the assigned function.

Send Image Resolution

To set **Send Image Resolution:**

1. Use 4-way control and press (OK) to enter **Send Image Resolution.**

2. Choices of image resolution will be prompted as **Original**, **Large**, **Medium**, **Small**, and **Basic**. Use 4-way control and press (OK) to select.

> ✎ Actual size of photos varies from formats.

Network

To set **Network:**

Use 4-way control and press (OK) key to enter **Network**.
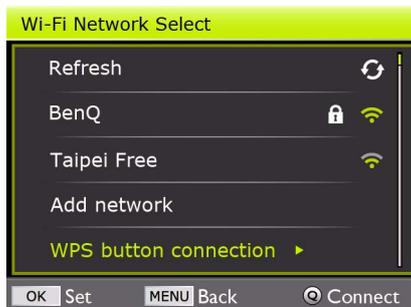
A list of SSIDs will be listed in **Wi-Fi Network Select** if available. Use 4-way control and press (OK) key to scroll and select **Refresh** for more SSIDs, your desired SSID, **Add network**, or **WPS button connection**.

• Refresh

Once selected, a progress bar of network searching is prompted on the LCD screen. When finished searching, you will be directed back to **Wi-Fi Network Select**.

• Add network

Once selected, the **Add network** menu appears on LCD screen with items including **SSID**, **Security**, and **Network Password**.

Add network		
SSID		▸
Security	◂ WEP	▸
Network Password		
Taipei Free		📶
Add network		
WPS button connection		
OK Set	MENU Back	◎ Connect

To add a network, at first, selected **SSID**, a virtual keyboard will appear. Use 4-way control and press (OK) key to select a desired character at a time. Select **DONE** when completed or press (MENU) to go back to previous menu.

Add network		
SSID		
Security	◂ WEP	▸
Network Password		
Taipei Free		📶
Add network		
WPS button connection		
OK Set	MENU Back	◎ Connect

Next, selected **Security**, use 4-way control to scroll and select security measures. Press (OK) to confirm.

💡 Security measure here in WEP is unavailable with shared key but open system.

Add network		
SSID		
Security	◂ WEP	▸
Network Password		▸
Taipei Free		📶
Add network		
WPS button connection		
OK Set	MENU Back	◎ Connect

Finally, select **Network Password**, again, a virtual keyboard will appear. Use 4-way control and press (OK) key to select a desired character at a time. press (Q) to connect to the network or press (MENU) to go back to previous menu.

• WPS button connection

| WPS button connection |
|---|
| Press WPS button in the Wi-Fi access point within 1 minute. |
| Cancel |
| OK Set |

Once selected, a message is prompted on the LCD screen to notify you to press the WPS button on your wireless access point.

A warning message of connection time out will be prompted on the LCD screen if failed to initialize connection in one minute.

MAC Address

Use 4-way control and press (OK) key to enter **MAC Address.**

Wi-Fi Menu

MAC Address
01:23:45:67:89:AB

MENU Back
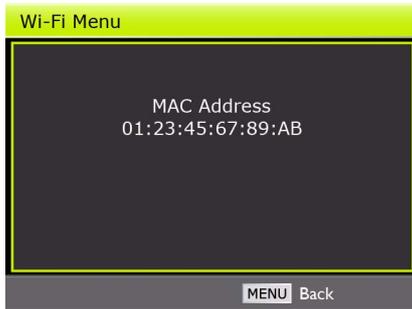
The MAC Address of this camera is prompted on the LCD screen. Press (MENU) to go back to **Wi-Fi Menu**.

Logout BenQ Cloud

Use 4-way control and press (OK) key to enter **Logout BenQ Cloud.**

Logout BenQ Cloud is available when having logged onto BenQ Cloud.

Wi-Fi Menu

Logout BenQ Cloud?

Yes
Cancel

OK Set   MENU Back

A status message to confirm logging out is prompted on the LCD screen. Use 4-way control and press (OK) key to confirm.

Wi-Fi Menu

Wi-Fi ID
Network
Q key
Send Image Resolution
MAC Address

OK Set   MENU Back

After logged out, Logout BenQ Cloud will be hidden from **Wi-Fi Menu**.

To smart devices

To establish a direct connection between the camera and your smartphone:

1. Download the app "BenQ Camera" to your Android or iOS smartphones from respective application stores to establish the connection between the camera and the smartphone.

2. On your camera, switch the power lever by the mode dial to **Wi-Fi**, and the LCD screen of the camera is displayed as below.

3. Use 4-way control to select **Smart Device** and press (OK) key. The camera will be standing by for connection to your smartphone.

4. On your smartphone, use Wi-Fi settings to search for the SSID of the camera as displayed on the LCD screen.

5. Tap on the icon of the app "BenQ Camera", and the app should prompt a message of connection in progress.

6. On the camera, use 4-way control and press (OK) key to confirm the connection request from your smartphone. Now your camera is set for wireless connection with your smartphone.

> • iOS users require manually connecting their smartphones to either the camera or Internet for social network services.
>
> • Android smartphones automatically prompt out selections for users to choose.

Using as a remote controller

On your smartphone, tap **Smart Control** or the icon to use your smartphone as a remote controller of the camera.
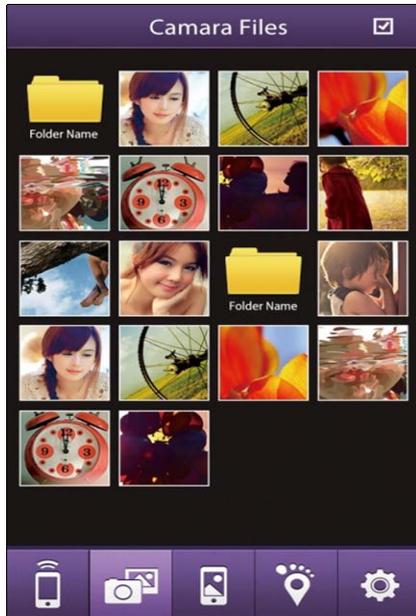
No.	Item	Description
1	Flash	Enabled only when the flash on the camera opened. Shares the same flash usage on the camera. Available options are on ( ), auto ( ), and off ( ).
2	Self-Timer	Tap to select desired timer and tap on the icon to begin counting down to shot. Shares the same self-timer usage on the camera. Available options are 2 sec ( ), 10 sec ( ), and off ( ).
3	Zoom Bar	Tap and drag left or right for zoom in and out.
4	Shutter	Tap to take a photo or use with then tap .

In the playback of smart control on smartphones, only will the last taken image be shown in iOS while all taken images can be viewed by sliding in Android.

Using as a photo viewer

On your smartphone, tap **View photo in camera** or the icon 🗂 to use your smartphone as a photo viewer of the camera.
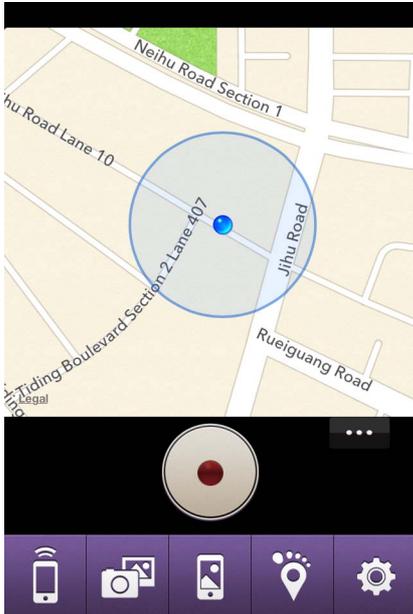
Function	Description
Viewing single photo	Tap the photo and the photo will begin to be downloaded from the camera to your smartphone.
Viewing multiple photos	First tap ☑ and then pick desired photos. Tap ⬇ to download photos from the camera to your smartphone. You should see progress bar for photos downloading and waiting to be downloaded. Once downloaded, you should see **View Photo** by the icon of the photo. Press **View Photo** to view in large format.
Sharing	Tap ⬀ and follow prompted options on your smartphone for further procedures.

💡 • While viewing images on smartphones, deleting is unavailable in iOS but available for individual images in Android.

• Images will be stored to "**Camera Roll**" in iOS since the store path is not user specifiable and will be stored to a user specifiable path in Android.

Using as a GPS logger

On your smartphone, tap **GPS recorder** or the icon to use your smartphone as a GPS recorder of the camera.

Function	Description
GPS data logging	Tap the icon to begin GPS data logging.
Sending all GPS logs to camera	Tap the icon for **Sending all GPS logs to the camera** or **Clean all GPS logs.** Make sure of turning on GPS on your smartphone and clocks are synchronized between the camera and your smartphone beforehand. Make certain to send all GPS logs after capturing.

- You may set GPS mode as **Walk**, **Bike**, **Drive**, or **Manually** by tapping the icon > **GPS** > **Walk** to select.
- GPX files cannot be saved on smartphones in iOS. The only way to export GPX files is to be attached to e-mails.
- GPX files can be saved in a fixed and unchangeable path on Android smartphones.

To your camera

Only by having completed your BenQ Cloud account setup, will you be able to experience the complete Wi-Fi enjoyment at this camera.

Becoming a member of BenQ Cloud

1. Use the browser to log onto cloud.benq.com, and click **Signup Now.**

   You may also log onto BenQ Cloud by scanning the QR code below.

2. Fill up all the required information by the order and the direction of arrows.
3. Tick **Privacy Policy**.
4. Click **New Member**.

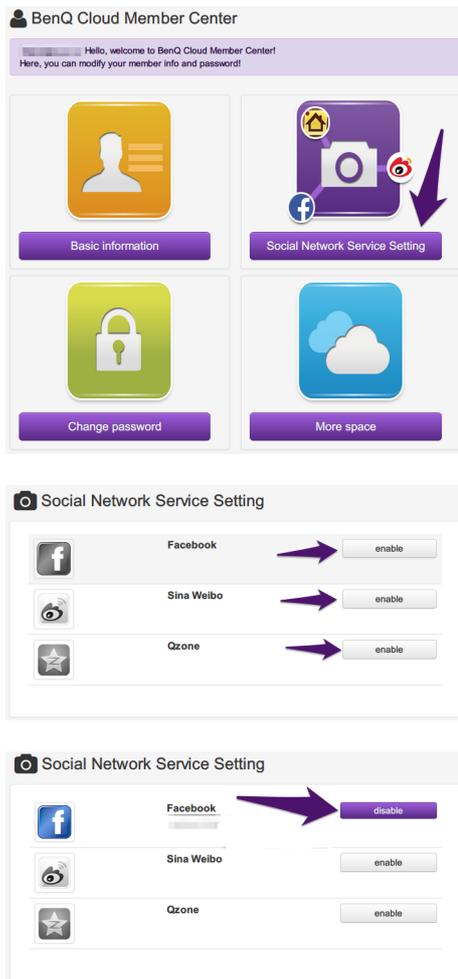5. Click **More Space**.

6. Enter your authorized code as printed on the promotion card, and click **More space.**

Now you have 5GB of storage space at BenQ Cloud free of charge for **2 years**. A notice of your service extension on BenQ Cloud will be issued before the expiration date.

Tethering Social Network Service Settings with BenQ Cloud

1. When logged on to cloud.benq.com, click **Social Network Service Setting**.

2. Click **enable** of your desired social network service.
3. You will be directed to the web page of the desired social network service to authorize BenQ Cloud and the service to be tethered together.

4. Once authorized, you should see the desired social network service being colored.

Click **disable** and **OK** if you wish to untether BenQ Cloud and the service.

Photo sharing via BenQ Cloud over Wi-Fi on your camera

Switch the power lever by the mode dial to **Wi-Fi**, and the Wi-Fi main menu of the camera is prompted on the LCD screen.

Use 4-way control and press (OK) key to select desired option.

- You will be prompted to confirm the current status of wireless connection.
- You will be asked to enter your BenQ Cloud ID and password. Tick **Remember** to save time on re-entering ID and password.

To share on BenQ Cloud:

1. Once selected **BenQ Cloud,** a BenQ Cloud member logging request will prompted. Use 4 way control to select **Next** and press **OK** if you have logged in.

2. Next, you will be directed to the browse mode to select photos your wish to share.

3. Use 4-way control and press (MENU) to select photos. Press (OK) to send.

4. A progress bar will be displayed for current delivery status.

5. Once all of selected photos have seen sent to **BenQ Cloud**, and a status message is prompted on the LCD screen.

6. Press (OK) to go back to browse mode.

To share with QR Sharing:

1. Once selected **QR Sharing**, a BenQ Cloud member logging request will prompted. Use 4 way control to select **Next** and press **OK** if you have logged in.

2. Next, you will be directed to the browse mode to select photos your wish to share.

3. Use 4-way control and press (MENU) to select one photo. Press (OK) to send.

4. A progress bar will be displayed for current delivery status.

5. A QR code valid for 24 hours will be generated on the LCD screen. Now you can share the QR code to people with smartphones scanning for it to get the photo you wish to share with them.

6. Press (OK) to go back to browse mode.

To share on E-mail:

1. Once selected **E-mail**, a BenQ Cloud member logging request will prompted. Use 4 way control to select **Next** and press **OK** if you have logged in.

2. You will be directed to entered e-mail addresses in the fields of the sender and the recipients.

> Every entered address will be saved in the history automatically. Press ▼ to use addresses in the history. Press ➕ to add a field for the next recipient, and press ✖ to remove unwanted recipients. Press (OK) to go to browse mode to select photos to email with, or press (MENU) to go back to the Wi-Fi main menu.

3. Use 4-way control and press (MENU) to select photos. Press ⊙ when done and selected photos attached to an email is on its way to the recipients.

4. Use 4-way control and press (MENU) to select photos. Press ⊙ when done and selected photos attached to an email is on its way to the recipients.

5. A status message of delivery is prompted on the LCD screen. Press (OK) to go back to browse mode.

> When Send Image Resolution is set to **Original**, suppose no image with size larger than 5 MB is selected, 5 images at most can be attached to an email at a time. On the contrary, once an image with size larger than 5 MB is selected, other images will be inaccessible and no more images can be attached.

To share on Social Sharing:

1. Once selected **Social Sharing**, a BenQ Cloud member logging request will prompted. Use 4 way control to select **Next** and press **OK** if you have logged in.

2. You will be directed to further select which of social networks to share photos with.

3. After selected you desired social network service, you will be directed to the browse mode to select photos to share with.

4. Use 4-way control and press (MENU) to select photos. Press (OK).

5. A progress bar will be displayed for current delivery status. Next, a status message of delivery is prompted on the LCD screen. Press (OK) to go back to browse mode.

• Available social network services depends on your tethering settings with BenQ Could. No service available is no tethering setting. Refer to Tethering Social Network Service Settings with BenQ Cloud for more detail.

• While Facebook and QQ are available for text, Weibo is available for both text and emoji.

• Due to restrictions of each social network service, social sharing images will be compressed while sending even Send Image Resolution is set to **original.**

Specifications & troubleshooting

Specification table

Sensor	Sony 20 Mega Pixels, 1/2.3 inch CCD
Zoom	Optical: 35X Digital: Up to 8X (Preview) / Up to 10X (Playback) Wise: Up to 3X
Lens	f = 4.5 (W) ~ 157.5 (T) mm F= 3.0 (W) ~ 5.9 (T) (f = 25 ~ 875 mm, 35 mm equivalent)
Focus Range	Normal: W = 30 cm ~ Infinity; T = 200 cm ~ Infinity Macro: W = 1 cm ~ 200 cm; T = 150 cm ~ Infinity
LCD	3.0" 460k pixels Swivel LCD
Image Resolution	4:3 20M/ 14M / 10M / 8M /5M / 3M / 2M / VGA 16:9 9M / 2M 3:2 12M 1:1 9M 2992*2992
Movie Mode	1280 x 720 / 640 x 480 with 30fps / 15fps Continuous recording with sound
Shutter Speed	Auto: 1/2000 ~ 1 sec. Manual mode: 1/2000 ~ 15 sec.
White Balance	Auto / Tungsten / Fluorescent H / Fluorescent L / Daylight / Cloudy / Flash / Manual
Exposure	-2.0 ~ +2.0 EV (1/3EV step)
ISO	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400
Flash	Auto On / Off / Red-eye / Slow Sync
Drive Mode	Off / 10 sec. / 2 sec. / 10+2 sec. / Smile
Power Source	CIPA approximately 400 based on bundled Li-ion battery
Storage Type	Built-in approx. 70 MB SD (up to 4GB) / SDHC (up to 32GB) / SDXC (> 64GB) PQI WiFi card / Eye-Fi card compatible
File Format	Still Image: JPEG (EXIF 2.3 compatible) Video: AVI Audio: WAV
Dimensions / Weight	132.2 x 90.6 x 95.7 mm 500 g (w/o battery & SD card)
Interface	Digital output: USB 2.0 compatible Audio / Video output (NTSC/PAL) IR remote control (GH680F/GH688F only)
Wireless (GH680F/GH688F only)	Built-in Smart Device / BenQ Cloud / QR Sharing / E-mail / Social Sharing
Accessories	USB Cable / Quick Guide / Neck Strap / Li-ion Battery / Lens Cover / Lens Strap / USB Adapter **/** Pouch (optional) / Lens Hood (optional) / Remote Control (GH680F/GH688F only)

• Available accessories depend on the actual items shipped and may vary from the list above.

• All information, designs, and specifications are subject to change without prior notice.

Troubleshooting and service information

If your camera cannot operate normally, see the frequently encountered problems and solutions listed below. If the problem persists, contact your nearest service center or technical support.

Problem	Cause	Solution
The camera cannot power up.	There is no battery or the battery is not inserted correctly.	Insert the battery correctly.
	The battery has no power.	Replace the battery.
	Battery type might be wrong.	Use correct battery type.
The battery power is draining quickly.	Battery type setting on the camera might be wrong.	Select the correct battery type setting on the camera.
	The external temperature is extremely low.	--
	Many shots are being captured in dark places, requiring a flash.	--
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	--
The LCD screen is black.	The lens cover is on.	Remove the lens cover.
No image is displayed on the screen and the camera beeped four times.	The lens cover is on.	Remove the lens cover.
I cannot adjust the flash mode.	The flash is closed.	Open the flash.
The flash does not fire.	The camera flash is turned off.	Set the flash to **Auto Flash**.
	The light source is sufficient.	--
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.
I cannot download images from the camera to my computer.	The free space on the hard drive of your computer is insufficient.	Ensure there is enough space in your hard drive capable of loading images equal to or greater than the size of the memory card in the camera.
	There is no power being supplied to the camera.	Replace the battery.

Problem	Cause	Solution
The camera does not shoot even when pressing the shutter.	The battery is running low.	Replace the battery.
	The camera is not in Capture mode.	Switch to Capture mode.
	The shutter was not pressed all the way down.	Press the shutter all the way down.
	The internal memory or memory card runs out of space.	Insert a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon, indicated on the screen, stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
I cannot print images with PictBridge-compliant printers.	The camera is connected to the printer when the camera is powered off.	Connect the camera to the printer, turn on the camera, and then select **Printer**.

Technical support

For technical assistance, free driver updates, product information, and news releases, visit our website:

http://www.BenQ.com