BenQ E1020 Digital Camera
User Manual

Welcome

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Disposal of Waste Electrical and Electronic Equipment by users in private households in the European Union.

This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment by handing it over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more information about recycling of this equipment, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

CE Regulatory Notice

Hereby, BenQ Corp. declares under our responsibility that the product is in conformity with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating, Electromagnetic Compatibility Directives (2004/108/EC) and Low Voltage Directive (2006/95/EC).

A "Declaration of Conformity" in accordance with the above Directives has been made and is available from BenQ Corp. upon request.

FCC Statement

This equipment has been tested 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 or more 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.

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.

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.

Safety warning and notice

Before operating the camera, please make sure that you read and fully understand the content in this section. If you ignore and violate all safety warning notices indicated in this section, the camera warranty may be void. Meanwhile, not only the camera but also you and all other people and things around you may be severely damaged, injured, or even placed in danger of death.

· Keep the camera and its accessories out of the reach of babies, toddlers, and children. In particular, small parts such as memory cards and batteries could be easily dismantled and swallowed by them.

· Use only the original accessories to avoid possible risks to health and property, and thus meet all related legal regulations.

· Warranty is void if damage or system failure occurred due to outside factors such as collision, fire, flood, dirt, sewage, earthquake, and other

force majeure events as well as incorrect usage of electricity or use of non-original accessories.

- It is the sole responsibility of the user if problems (such as data loss and system failure) occurred due to non-factory installed software, parts, and/or non-original accessories.

- The only way of replacing the battery and the memory card is to open the Battery / Memory card cover.

- Do not dismantle the camera under any circumstances.

- The capacity of your camera battery will reduce each time it is charged/emptied. Storage at too high or low temperatures will also result in a gradual capacity loss. As a result, the operating time of your camera may be considerably reduced, even after a full recharge of the battery.

- Do not change the camera. Any changes to the camera invalidate the warranty.

- When using the flash, do not go too close to human eyes (particularly for babies, toddlers, and children) or animal eyes. Otherwise, when the flash fires, the light may cause damage to human eyes or irritate animals.

- Dispose of unwanted batteries and cameras as permitted by the laws in your countries.

- Only use original batteries and charging devices. Otherwise you risk serious damage to health and property. The battery could explode, for instance. All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touch exposed terminals. The material may complete an electrical circuit and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside your pocket, purse, or other container with metal objects. Do not dispose of batteries in fire as they may explode.

- Always keep the camera in the accompanying leather case or pouch for better protection against splashes, dust, and collision.

- The camera operating temperature is between 0 and 40 degrees Celsius. It is normal for the operating time to be shortened when the temperature is low.

- Do not use or store your camera in the environments listed below:
  - Direct sunlight
  - Dusty places
  - Next to an air conditioner, electric heater or other heat sources
  - In a closed car that is in direct sunlight
  - Unstable locations

- If your camera becomes wet, wipe it with a dry cloth as soon as possible.

- Salt or seawater may cause severe camera damage.

- Do not drop, knock, or shake the camera. A rude behavior of using the camera may damage the internal electronic circuit board, deform the lens shape, or make the lens unretractable.

- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the camera.

- Finger grease may be left on the camera lens and will result in unclear images or videos. To avoid this problem, be sure to clean the camera lens before taking pictures or recording videos. You should also clean the camera lens on a regular basis.

- If the lens is dirty, use a lens brush or soft cloth to clean the lens.

- Do not touch the lens with your fingers.

- To prevent electric shock, do not attempt to disassemble or repair your camera by yourself.

- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.

- Do not use your camera outdoors when it is raining or snowing.

- Do not use your camera in or near water.

- If a foreign substance or water gets in your camera, please turn the power off immediately and disconnect the battery and the power

adapter. Next, remove the foreign substance or water and send it to the maintenance center.

• Whenever there is data in the internal memory or the external memory card, you should make a backup copy to a computer or disc. So, you can have a backup solution if data loss occurs.

• If the lens cannot retract into the camera, please replace the battery first (usually this is because of a drained battery). Then the lens should retract automatically. If the lens still cannot retract, please contact your dealer.

• Under no circumstances should you push the lens back manually as this may damage the camera.

• Some camera models accepts non-rechargeable batteries. When using these batteries, do not charge them. Otherwise, dangers such as explosion and fire may occur.

• All original accessories are designed only for use with this camera model you purchased. Do not use these accessories to other camera models or cameras of other brands to avoid unpredictable danger or damage.

• It is normal for the camera to become warm during operation, because the camera casing can conduct heat.

• Before initial use of a memory card, always format the card first using the camera.

• Remember to slide the write-protect tab (if available) to the unlock position. Otherwise, all data (if any) on the memory card is protected and the card cannot be edited or formatted.

Table of Contents

Touring the camera

Checking the package contents

Carefully unpack your kit box and ensure that you have the following items.

English

1. User Manual / Quick Guide
2. Digital camera
3. Battery
4. Hand strap
5. Pouch / leather case
6. Software & User Manual CD
7. Power adapter
8. 2-in-1 USB and AV cable
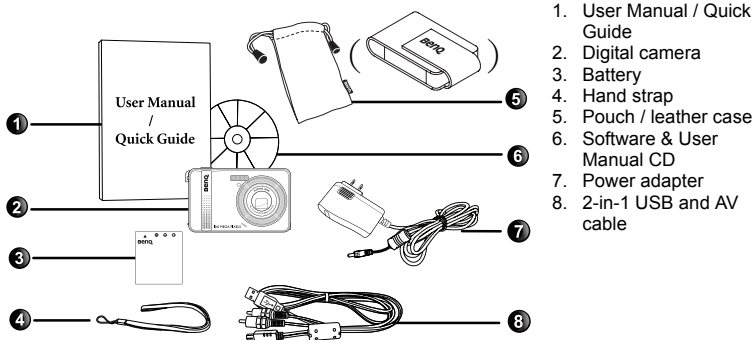
- All images, screen captures, and icons used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any items are missing or damaged, contact your dealer.
- Save the packaging for future shipment or storage.

Camera: front view and bottom views
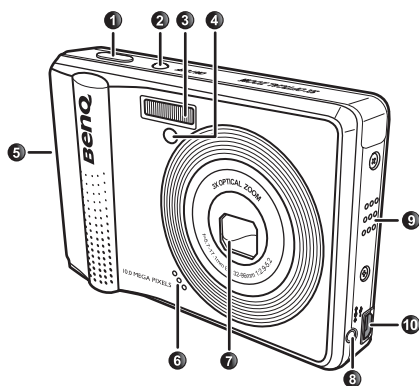
1. Shutter button
2. Power button / Status LED indicator) **ON / OFF**
3. Flash
4. Self-timer LED indicator
5. Battery / Memory card cover
6. Microphone
7. Lens
8. Power jack
9. Speaker
10. USB / AV port
11. Tripod mount

English
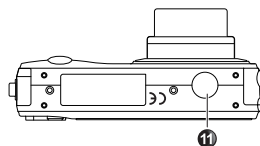
Camera: rear view
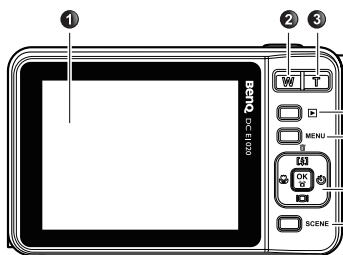
1. LCD display
2. W (Wide) [W] - Zoom-out or thumbnail view (Playback mode)
3. T (Tele) [T] - Zoom-in
4. Strap eyelet
5. Playback mode button [▶] - Toggle between Capture and Playback modes)
6. MENU button MENU (for entering or exiting menu)
7. Multifunctional buttons (including a 4-way control) plus an [OK] button (for entering or exiting a setting)
8. Scene mode

☞ • It is normal for the camera to become warm during operation, because the camera casing can conduct heat.
  • The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.

Preparing the camera for use

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

A

B

To install the battery:
1. Open the battery cover (A).
2. Insert the battery in the correct direction by matching the + - label on the battery cover (B).
3. Push the battery all the way down, until the battery lock lever clicks into place (C).
4. Close the battery cover (D).

C
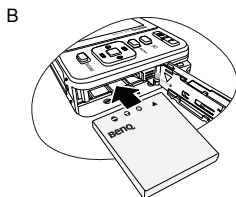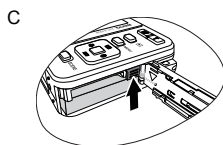
To remove the battery:

1. Open the battery cover.
2. Press and hold the battery.
3. Release the battery lock lever.
4. When the battery has come out a little, gently pull it out the rest of the way.
5. Close the battery cover.

D
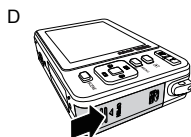
Charging the battery

The battery charge status affects the camera performance. To maximize the performance and the battery life, fully charge the battery using the camera and the specified power adapter, and then fully discharge it through normal use (at least once).
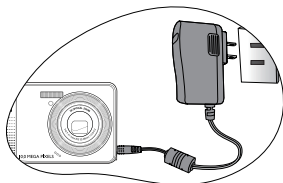
To charge the battery:

1. Turn off the camera.
2. Insert the battery into the camera.
3. Connect one end of the power adapter to the camera.
4. Connect the other end of the power adapter to a wall outlet. The battery will start charging immediately.

• Turn off the camera before removing the battery.
• Please fully charge the Li-ion battery before using it for the first time.
• When the battery is being charged, the status LED indicator flashes in blue. When the battery is fully charged, it turns off.
• Use only the specified battery type. Using other types of battery may damage the camera and invalidate the warranty.
• Ensure that the Li-ion 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.
• Damage caused by the use of an incorrect power adapter is not covered under the warranty.
• The battery may be warm after being charged or 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.

English

Using multifunctional buttons

You can choose camera settings by pressing the 4-way control or the [OK] button.

1. ⚘ **Left/Macro/Auto Focus**:
   • Scrolls left in menus.
   • Activates Macro mode or Auto Focus mode.
   • Press to fast rewind video playback.

2. [⚡] **Up/Flash**:
   • Scrolls up in menus.
   • Selects a flash mode.

3. ⟳ **Right/Drive**:
   • Scrolls right in menus.
   • Selects a drive mode.
   • Press to fast forward video playback.

4. ||□| **Down/Info**:
   • Scrolls down in menus.
   • Toggles between different information display modes.

5. [OK]:
   • Confirms a chosen setting.
   • Turns on/off Super Shake -Free (S.S.F.; available only in the Auto mode).
   • Press to start and pause the video playback.
   • Press to stop the voice memo playback.
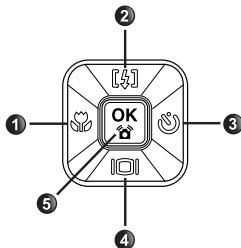
Using a memory card

The camera comes with internal memory for storing captured images, video clips, or audio files. You can also add a memory card to store more files.
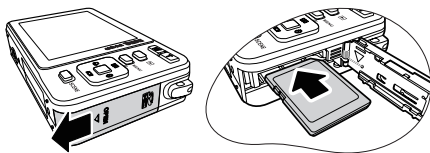
To install a memory card:
1. Make sure the camera is turned off.
2. Open the memory card cover.
3. Insert a memory card in the correct direction.
4. Close the memory card cover.

To remove a memory card:
1. Make sure the camera is turned off.
2. Open the battery cover.
3. Press lightly the edge of the memory card to eject.
4. Close the battery cover.

☞ Before initial use of a memory card, press ON/OFF ◯ > **MENU** > 🔧 > 🖼 **Format** > [OK] > **Memory Card** to format the card first.

English

Initial setting

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

Setting language

Selects the language version shown on the screen.

To select a language:

1. Press **MENU** > [⚙] > **Language** > [OK]. (Step 1 is skipped when you first time use the camera.)
2. Press [🔦], or [▯] to locate the language you want.
3. Press [OK].

```
Language
  English
  Español
  Deutsch
  Français
  Italiano
```
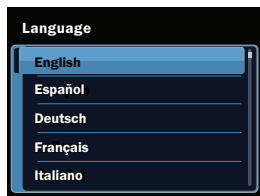
Setting date and time

When first time using the camera or the battery has been removed from the camera for a long time, you need to set the date and time. They are used to record when a file was captured.

To set date and time:

1. Press **MENU** > [⚙] > **Date & Time** > [OK].
2. Press [🌷] or [🕑] to move between different column, and press [🔦] or [▯] to select the proper number for each column.
3. Press [OK].

```
Date & Time

      ▲
    2008  /  10  /  23    19  :  45
      ▼

        Press OK when done
```
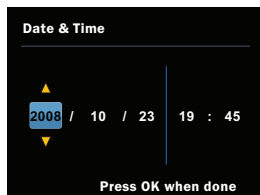
Operating the camera

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

1. Press **ON/OFF** ⚫ to turn the power on.
2. Press **MENU** > [🌷] or [🕑] to select a tab ([📷] or [⚙]).
3. Press [🔦] or [▯] to locate a desired option, and then press [OK] (or [🕑]; available in the Capture mode only) to make selections. (You can also press **SCENE** and use [🔦], [▯],

    [🌷], or [🕑] to locate a desired scene mode. Next, press [OK] to select and enter the mode.)

☞ At any time, you can cancel the current operation by pressing **MENU**.

4. Press [T] to zoom-in or [W] to zoom-out. (In the **Movie Record** mode, you can still adjust the digital zoom while recording.)
5. Press the shutter halfway to set automatic focus. Once the focus is set, the focus frame color will turn from white (unfocused) to yellow-green (focused).

English

☞ If the focus frame color turns to red instead of yellow-green, then the automatic focus is not completed. This situation can happen for many reasons (for example, the subject is too dark). If you encounter this situation, release the shutter and see if you can find a better shooting environment. Then, try Step 5 again.

6. Press the shutter down fully to capture.
7. Release the shutter.
8. In the **Movie Record** mode, press the shutter to stop video recording.
9. Press ▶ to view captured images or recorded videos, and then press 🖐, or 🖐 to move to different images/videos. You can also press 🔲 or 🔲 to zoom-in/out a captured image, or press 🔲 to view 9 images on the screen.

Digital Zoom
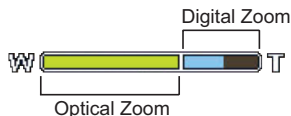
Optical Zoom

☞ • During zoom-in/out, there is a separator in the zoom bar between 🔲 and 🔲. For best image quality, it is recommended to use optical zoom only by keeping the magnification within 🔲 and the separator.
   • Anytime in the Playback mode, you can press ▶ to switch to the Capture mode.
   • At any time, you can press ON/OFF ◯ to turn off the camera.
   • In Capture or Playback mode, press ‖▢‖ to decide what information to show on the screen.

Digital Zoom

This feature controls the digital zoom mode.

Icon	Mode	Description
ON	Digital Zoom	Turns on the digital zoom feature.
OFF	OFF	Turns off the digital zoom feature.

To select a digital zoom:

1. Press MENU > ⚙ > **Digital Zoom**.
2. Press 🆗 > ⟦⚡⟧ or ‖▢‖ to select **On** or **Off**.
3. Press 🆗 > MENU

Battery status

Icon	Description
▭	Battery power is full.
▭	Battery power remains adequate.
▭	Battery power is low.
▭	Battery power is very low. You should replace the battery ASAP.

Scene mode

Select one of the following scene modes to fit your shooting condition.

Icon	Mode	Description
	Auto	The camera automatically decides most settings, so you can capture images with ease.
	Program	You can set the shooting parameters manually.
	Aperture Priority	You can choose an aperture value, while the shutter speed is automatically determined by the lighting condition of the subject.
	Shutter Priority	You can choose a shutter speed, while the aperture value is automatically determined by the lighting condition of the subject.
	Movie Record	Captures videos with sound. When viewing the captured video file later, you can see a unique icon that appears on the screen and indicates that this is a video file.
	Smile Catch	Automatically takes a shot when a smile is detected.
	Portrait	Makes the subject (usually a person) stand out with smooth and natural-looking skin tones.
	Landscape	Captures a scene in the distance with the focus area set to infinity and a lower aperture value. The maximum depth of view can be also achieved.
	Sport	Uses a high shutter speed to capture objects in motion.
	Backlight	Increases exposure (by turning on the flash) when light illuminates the subject from behind.
	Night Scene	Captures photos in a low-light environment, such as in the evening or at night.
	Beach	Captures photos in a brightly lit environment, such as beaches.

	Snow	Used under a very bright light environment such as snow scenes.
	Fireworks	Adds exposure time to shoot firework trails. Please keep the camera steady or use a tripod while using this mode.
	Night Portrait	Shoots night scenes and portraits clearly. Please keep the camera steady or use a tripod while using this mode.
	Sunset	Captures the warmth and atmosphere of sunrise or sunset.
	Museum	Used when taking a picture of subjects in a place where flash is usually prohibited. Flash is always off.
	Party	Captures the party atmosphere usually under indoor light source.
	Text	Improves clarity & contrast when taking a close-up picture of documents.
	Kids & Pets	Increases sensitivity and emphasizes children's skin tones or shows pets' correct fur colors.
	Foliage	Takes a clear and vivid picture of plant leaves by emphasizing their saturation and sharpness.
	Aquarium	Takes a picture of the subject in an aquarium.
	Voice Rec.	Captures background sound only (no images or videos). When listening to the captured audio file later, you can see a unique icon that appears on the screen and indicates that this is an audio file.

☞ For some scene modes like Auto, options ISO, Metering, and White Balance are not available. You must select another mode like Program to enable these options.

To select a scene mode:

1. Press **SCENE** > [⚡], [▢], 🖐, or 🖐 to locate a desired scene mode.

2. Press [OK].

☞ (For Aperture/Shutter Priority only) Press [OK] > 🖐 / 🖐 to select an aperture value or shutter speed, and then press [OK].

Movie Record mode settings

Icon	Description
VGA Q-VGA	Video Format: VGA (640 x 480), QVGA (320 x 240)
(white balance icons)	White balance: Auto, Daylight, Tungsten, Fluorescent, and Cloudy. See "White Balance" on page 15 for more details.
(effect icons)	Effect: Vivid, Normal, B&W, Sepia. See "Effect" on page 16 for more details.

☞ • See "Setting Sharpness, Saturation and Contrast" on page 17 for information on saturation and contrast.
• Sharpness is not available in the Movie Record mode.
• Flash is automatically turned off in the Movie Record mode.
• The Movie Record mode records both sound and video. The recording time is continuous, but recording will stop once the memory card space is full.
• The zoom function is still available while a video is recording. See "Specifications" on page 27 for details.

Flash mode

The flash offers an additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

Icon	Mode	Description
(icon)	Auto flash	The flash fires automatically based on the photographic conditions.
(icon)	Force 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.
(icon)	Force 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)	Auto anti red-eye	Reduces the red-eye phenomenon when capturing natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.

To select a flash mode:

1. Go to the Capture mode.
2. Keep pressing [⚡] to toggle among different flash modes and select a desired option.

Macro mode

Icon	Mode	Description
[AF]	Auto focus	Adjusts focus automatically.
🌷	Macro	Used when capturing images at a close distance.

To select Macro mode:
1. Go to the Capture mode.
2. Keep pressing 🌷 to toggle between Auto focus and Macro modes.

Drive mode

Icon	Mode	Description
--	Standard	Takes one picture at a time.
🕙 🕑	Self-timer	Automatically takes a picture after 2 or 10 second delay. This mode is useful when you want to be part of the picture.
🔳	Burst	Continuously takes pictures as long as you keep pressing the Shutter. The flash is always off in this mode.
🔲	M-Burst	Takes thumbnail shots (each shot at the VGA quality 🔳) into one single image in the number of 2 x 2 (4 shots), 3 x 3 (9 shots), or 4 x 4 (16 shots). This function is useful when you want to capture a continuous motion like swinging a golf club. The flash is always off in this mode.

To select a drive mode:
1. Go to the Capture mode.
2. Keep pressing 🕙 until the corresponding mode icon shows on the screen.

To use M-Burst:
1. Go to the Capture mode.
2. Press **MENU** > 📷 > **M-Burst**.
3. Press 🆗 > **Interval**, and then select an interval time.
4. Select **Shots**, and then choose the number of total shots.
5. Select **Exit** and press 🆗.
6. Press **MENU**.
7. Keep pressing 🕙 until the corresponding mode icon shows on the screen.

Capture mode
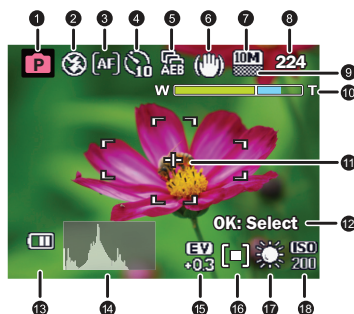
Item	Description	Page reference
1	Scene mode	7
2	Flash mode	9
3	Focus mode	10
4	Drive mode	10
5	AEB	14
6	S.S.F. (available in the Auto mode only)	5
7	Resolution	9
8	Number of shots available	--
9	Quality	12
10	Zoom bar	5
11	AF area	13
12	Av (Aperture Priority) / Tv (Shutter Priority) selection (available in the Av / Tv mode only)	14
13	Battery status	14
14	Histogram	--
15	Exposure value (EV)	14
16	Metering	16
17	White Balance	15
18	ISO	15

English

☞ • The above screen is for illustrations only. Actual items showing on the screen may vary depending on the scene mode you select.
  • In the Capture mode, press ‖◻‖ to toggle among 4 display modes (standard, complete, none, and rule of thirds). Use the rule of thirds display mode to improve your composition by placing subjects on at least one of the intersections of these 4 imaginary lines.
  • While the shutter is pressed down halfway, the AF area color changes to yellow-green, camera shake warning (appears only if the camera itself detects possible shaking), aperture, shutter speed and ISO setting are also shown on the screen.

Resolution

Icon	Description	Icon	Description
10M	10 megapixels (3664 x 2748)	3M	3 megapixels (2048 x 1536)
3:2	3:2 (3664 x 2442)	16:9	16:9 (1920 x 1080)
8M	8 megapixels (3264 x 2448)	2M	2 megapixels (1600 x 1200)
5M	5 megapixels (2576 x 1932)	VGA	VGA (640 x 480)

To select a resolution:

1. Press MENU > 📷 > **Resolution**.
2. Press [OK] or [⟳].
3. Press [⟨⁵⟩] or ‖◻‖ to select a setting.
4. Press [OK] to confirm setting.
5. Press MENU.

Quality

Icon	Mode	Description
▨	Super Fine	Best image quality with the lowest compression rate. File size is the largest.
▨	Fine	Better image quality with medium compression rate. File size is medium.
▨	Normal	Good image quality with the highest compression rate. File size is the smallest.

To select an image quality level:

1. Press MENU > 📷 > **Quality**.
2. Press [OK] or [⟳].
3. Press [⟨⁵⟩] or ‖◻‖ to select a setting.

4. Press [OK] to confirm setting.
5. Press **MENU**.

AF Area

Icon	Mode	Description
	Multi	Focuses on a wide range of multiple objects.
	Center	Focuses on the center area of the objects.
	Selected Area (available in the Program mode only)	Focuses on the region you selected.

To select an automatic focus area:

1. Press **MENU** > > **AF Area**.
2. Press [OK] or [⏱].
3. Press [⚡] or [▢] to select a setting.
4. Press [OK] to confirm setting.
5. Press **MENU**.

To use Selected Area as the automatic focus area in the Program mode:

1. Press **SCENE** >
2. Press **MENU** > > **AF Area**.
3. Press [OK] or [⏱].
4. Press [⚡] or [▢], and then select .
5. Press [OK] to confirm setting.
6. Press **MENU**.
7. Press [OK] and the 4-way control to choose a selected area from 9 available points.
8. Press [OK] to confirm setting.

English

Face Tracking

While Face Tracking is on, point the camera to where the people (your subjects) are located. Focus frames of face tracking will automatically detect faces (maximum 10) and show on the LCD screen. Then press the shutter to capture the image.

To turn on/off Face Tracking:

1. Press **MENU** > 📷 > **Face Tracking**.
2. Press 🆗 or ✋.
3. Press ⌊⅍⌋ or ⌊▭⌋ to select a setting.
4. Press 🆗 to confirm setting.
5. Press **MENU**.

☞ • Due to environmental factors such as lighting, the number of detected faces might be different from that of the actual faces.
   • To achieve the best result, ask your subjects not to turn their faces partially away from the lens.

EV Compensation

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 select an EV:

1. Press **MENU** > 📷 > **EV Compensation**.
2. Press 🆗 or ✋.
3. Press ⌊⅍⌋ or ⌊▭⌋ to select a setting.
4. Press 🆗 to confirm setting.
5. Press **MENU**.

Auto Exposure Bracketing (AEB)

The AEB function automatically takes 3 pictures with slightly different settings in the shutter speed or the aperture value.

To turn on AEB:

1. Go to the Capture mode.
2. Press **MENU** > 📷 > **AEB**.
3. Press 🆗 > 🌷 / ✋ to select **On**.
4. Press ⌊▭⌋ > 🌷 / ✋ to select an AEB bracket value.
5. Press 🆗.
6. Press **MENU**.

White Balance

Compensates for color temperatures in different lighting conditions, so white and other colors can display properly when you capture images.

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

To select white balance:

1. Press MENU > 📷 > **White Balance**.
2. Press 🆗 or 🖐.
3. Press 🔦 or ▯ to select a setting.
4. Press 🆗 to confirm setting.
5. Press MENU.

ISO

ISO configures the camera's 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
	Automatically sets the ISO value.
	Equivalent to color ISO 80/100/200 film. Used for outdoor photography in bright sunlight.
	Equivalent to color ISO 400/800/1600 film. Used it in a low-light environment or where the flash light is not allowed.

To select an ISO value:

1. Press MENU > 📷 > **ISO**.
2. Press 🆗 or 🖐.
3. Press 🔦 or ▯ to select a setting.

4. Press 🆗 to confirm setting.
5. Press **MENU**.

Metering

Icon	Mode	Description
▣	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.
▣	Average	Detects the exposure based on the average reading in the subject area.

To select an AE metering option:

1. Press **MENU** > 📷 > **Metering**.
2. Press 🆗 or 🖐.
3. Press ⟦⟧ or ‖▢‖ to select a setting.
4. Press 🆗 to confirm setting.
5. Press **MENU**.

Effect

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

Icon	Mode	Description
◩	Vivid	Adds an effect with very clear and bright color tones.
◩	Normal	No effects are added.
◩	Black and White (B&W)	Adds an effect with monochromatic color tones.
◩	Sepia	Adds an effect with dark reddish brown color tones, so the image or video looks as if it is old.

To select an effect:

1. Press **MENU** > 📷 > **Effect**.
2. Press 🆗 or 🖐.
3. Press ⟦⟧ or ‖▢‖ to select a setting.
4. Press 🆗 to confirm setting.
5. Press **MENU**.

Setting Sharpness, Saturation and Contrast

Adjusts how colors appear in the pictures by setting sharpness, saturation, and contrast.

To set sharpness, saturation, or contrast:

1. Press **MENU** > 📷 , and then select **Sharpness**, **Saturation**, or **Contrast**.

2. Press ⌷ᴼᴷ or ⌷.

3. Press ⌷ or ⌷, and then select **High**, **Normal**, or **Low**.

4. Press ⌷ᴼᴷ > **MENU**.

Setting menu

Press **MENU** > ⟳ , and then select an option.

Option	Description
LCD Brightness	Sets the degree of brightness for the screen.
File No.	Use this function if you want to restart numbering, for example, after erasing all files. • **Reset**: Resets file numbering each time the memory card is changed. • **Series**: Stores the latest used file number no matter deleting files or inserting a new memory card. This is useful for avoiding the file name duplication when images are downloaded to a computer.
Digital Zoom	See "Digital Zoom" on page 6.
Instant Review	This feature displays the still image that just recorded for 1 second. **To set the Instant Review:** 1. Press **MENU** > ⟳ > **Instant Review**. 2. Press ⌷ᴼᴷ or ⌷, and then select **On** or **Off**. 3. Press ⌷ᴼᴷ to confirm setting. 4. Press **MENU**.
Sounds	**Volume**: Adjusts the volume of the shutter sound, startup sound, and beep sound. **Startup**: Sets a type of the start-up sound. **Shutter**: Sets the shutter sound on and off.
LCD Saving	Sets the idle time before the camera automatically enters the standby mode to save battery power.
Power Off	Adjusts the time before the camera automatically turns off while the camera is idle.
TV Format	Sets the video format (such as NTSC or PAL) when connecting to an AV system like TV.

English

USB Mode	Sets the transfer method between the camera and a computer. • **PTP**: Used when the camera is connected to a Pictbridge-compatible printer via a USB cable. • **MSDC** (default): The camera acts as a mass storage device providing file transfer between the camera and a computer.
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 ⟲. 3. Press [⚡] or ▣ to select a date format. 4. Press [OK] to confirm setting. 5. Press **MENU**.
Date & Time	Sets date and time and date format.
Language	Sets the displayed language on the screen.
Image Storage	Sets where images and videos are stored. • **Auto**: Sets the external memory card as the first priority location to store files. • **Internal Memory**: Sets the memory built-in the camera as the location to store files.
Format	Formats the internal memory or the memory card.
Reset	Returns all settings to the factory default values.
Voice Memo	Sets whether to record voice memos after pictures are taken (available in the Playback mode only).
Version	Shows the current camera firmware version number.

Playback mode

Press ▶ to enter the Playback mode.

☞ • The above screen is for illustrations only. Actual items showing on the screen may vary depending on the file type and the settings you chose while capturing.
• In the Capture mode, press ▶ to enter the Playback mode.
• In the Playback mode, press ▶ to switch to the Capture mode.
• (Used when the camera is off) While pressing and holding ▶, press ON/OFF ⭕ to enter the playback mode.
• While pausing video playback, you can press the shutter to capture the video frame as a still image in the VGA format.

Item	Description	Page reference
1	Indicates that the camera is in the Playback mode.	--
2	Indicates this file has a voice memo.	--
3	Indicates that the file is protected and cannot be deleted.	21
4	Indicates the file is marked for printing.	--
5	Displays the following information and controls: • the shooting conditions such as scene mode and image size. • Lets you rotate or add voice memo. • Shows whether it is a video file and the play button. ☞ You can press ‖◻‖ to toggle between different information and controls.	--
6	Date and time when the file was created.	--
7	Current file number / total number of files	--
8	Histogram	--
9	File name, file size, shutter speed, and F. No.	--

English

Options for playback and editing

When the camera is in the Playback mode, press 🌸, or 🖐 to move to different 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 ▶.

2. Press 🌸, or 🖐 to move to the image you want to enlarge.

3. Press T to zoom-in or W to zoom-out.

4. Press 〖⚡〗, ▢, 🖐, or 🌸 to move to the area you want to see.

5. (Optional) If you want to crop the image, press OK and follow the remaining instructions on the screen.

Viewing multiple files at a time

Shows up to 9 files at a time on the screen.

To view multiple files:

1. Press ▶ > W.

2. Maximum 9 files (shown in thumbnails) are displayed on the screen. Press 〖⚡〗, ▢, 🖐, or 🌸 to select a file, and then press OK to view it in its normal viewing size.

Deleting files

Removes selected or all files.

To delete files:

1. Press ▶ > and move to the image/video file you want to delete.

2. Press 〖⚡〗 and select whether to delete this selected file or all files, then 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 ▶ > **MENU** > ▣ > DPOF > OK.

2. Select **This image** (or **All images** if you want to set DPOF to all image files), and then press OK.

☞ Press 🌸 or 🖐 to select the image you want to print out, and then press 〖⚡〗 or ▢ to specify the number of copies.

Slideshow

Presents a series of captured image and video files.

To play a slideshow:

1. Press ▶ > MENU > [▶] > **Slideshow** > [OK].
2. Press [OK] > [▢] > **Interval** > [OK] to set the interval between 3 ~ 30 seconds, and then press [OK].
3. Select **Loop** to decide whether to resume playback once the slideshow playback ends.
4. Select **Start**, and then press [OK] to start the slideshow (to stop the slideshow at any time, press [OK]).

Resize

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

To resize an image:

1. Press ▶ > ♥ or ♥ to move to the image you want to resize.
2. Press MENU > [▶] > **Resize** > [OK].
3. Press [↯] or [▢] to select the target image size to which you want to reduce.
4. Press [OK] to save the resized image file to another new file.

Rotate

Changes the orientation of an image.

To rotate an image:

1. Press ▶ > ♥ or ♥ to move to the image you want to rotate.
2. Press MENU > [▶] > **Rotate** > [OK].
3. Press ♥ to rotate the image counter-clockwise, or ♥ to rotate the image clockwise.
4. Repeat step 3 until desired orientation is achieved.
5. Select [▢] > **OK** > [OK] to save the file (the original file will be overwritten), or **Exit** if you do not want to rotate the image.

Protect

Prevents selected files from accidental removal.

To protect files:

1. Press ▶ > ♥ or ♥ to move to the image you want to protect.
2. Press MENU > [▶] > **Protect**.
3. Press [OK]. You will then see the icon 🔒 indicating the file is protected.

☞ You can remove the protection anytime by following the same procedure as shown above.

Divide (for videos only)

This video trimming function, available in the playback mode when a video file is selected, extracts a portion from the original video.

To use the Divide function:

1. Press ▶ > 🌿 or 🐚 to move to the video you want to divide.

2. Press ▶ > **MENU** > ▣ > **Divide** > OK .

3. Keep pressing 🐚 or 🌿 until you move to the frame you want to set as the mark-in point (starting frame) 🔲 .

4. Press ⫿⫾, and then keep pressing 🌿 or 🐚 until you move to the frame you want to set as the mark-out point (ending frame) 🔲 .

5. Press ⫿⫾ to move to ▶ , and then press OK to preview the trimmed video.

6. Press ⫿⫾ to move to ▣ , and then press OK to select one of the following options:
   • **New file**: saves the trimmed video as a new video file.
   • **Overwrite**: saves the change to the original video file.
   • **Exit**: cancels the trimming task.

☞ You can discard all trimming changes at any time by selecting ↩ and return to the previous menu.

Move

This function moves the currently selected image or all images from the internal memory to the unprotected memory card.

☞ This function is available when the camera is set to using the Internal Memory mode and a unprotected memory card is inserted,

To use the Move function:

1. Press ▶ > **MENU** > ▣ > **Move** > OK .

2. Select **This image** (or **All images** if you want to move all files), and then press OK .

3. Press OK .

Red-eye Removal

This function, available when an image was taken using the flash, tries to remove the red-eye effect from the original image file.

To use the Red-eye Removal function:

1. Press ▶ > **MENU** > ▣ > **Red-eye Removal** > OK .

2. Select one of the following options:
   • **New file**: saves the image as a new image file.
   • **Overwrite**: saves the change to the original image file.
   • **Exit**: cancels the red-eye removal.

3. Press OK .

Startup Image

Sets the welcome image when the camera is powering on.

To select a startup image:

1. Press ▶ > **MENU** > ▶ > **Startup**.
2. Press [ ] or [ ] and then select one of the following options:
   • **Off**: No welcome image when you turn on the camera.
   • **Default**: uses the original startup image.
   • **My photos**: uses 💮 or 🖐 to move to the image you want to use as the startup image.
3. Press 🆗.

Working with computer and AV system

Bundled software

The camera offers the following programs on a CD.

ArcSoft PhotoImpression 5	Combines photo editing with creative enhancement and sharing tools that maximize your digital media experience.
ArcSoft VideoImpression 2	Creates multimedia presentations by combining photos and video clips with audio, text and scene transitions.

To install these programs, see the information supplied with the CD.

Connecting the camera to a computer

You can connect the camera to a PC or notebook to transfer, view, print, or edit files.

To connect the camera to a computer:

1. Connect the end of the smaller plug of the 2-in-1 USB and AV cable to the camera.
2. Connect the other end of the 2-in-1 USB and AV cable to an available USB port on your computer.
3. Turn on the camera.
4. A **Removable Disk** icon appears in **My Computer**. Click this icon to access the files in your camera.
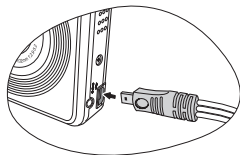
☞ • When connecting the camera to a computer, it is necessary to install a battery into the camera.
   • When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

Connecting the camera to an AV system

You can play files in your camera from an AV system such as TV or projector.

To connect the camera to an AV system:
1. Connect the end of the smaller plug of the 2-in-1 USB and AV cable to the camera.
2. Connect the yellow video plug and the white audio plug of the 2-in-1 USB and AV cable to a video-input jack and an audio-input jack (left channel) on your AV system.
3. Turn on the AV system, and then switch to the AV source connecting to the camera.
4. Turn on the camera.
5. Follow the on-screen instructions to operate the camera via the TV or projector screen.

Printing images

In addition to printing images by connecting the camera to a printer via a computer or bringing the memory card (if available) to a photo-processing center, you can choose to print using a PictBridge-compatible printer.

Printing with PTP

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. Set the USB Mode to **PTP** (See "USB Mode" on page 18 for details.)
2. Connect the end of the smaller plug of the 2-in-1 USB and AV cable to the camera.
3. Turn on the printer. Wait for a while until it finishes starting up and is ready to print.
4. Turn on the camera.
5. The **Printer Connecting** screen displays on the LCD display.The **Print** menu will then pop up automatically.
6. Press [⚡] or [▭] to select an option.
7. Press [OK] and follow the remaining instructions on the screen.

☞ • 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.

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.	Recharge the battery.
The battery power is draining quickly.	The external temperature is extremely low.	--
	Many shots are being captured in dark places, requiring a flash.	--
	The battery was not fully charged, or it has not been used for an extended period of time after being charged.	Fully charge the battery and discharge it for at least one complete cycle before use.
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	--
The flash does not fire or recharge.	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 disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Recharge the battery.

English

The camera does not shoot even when pressing the shutter button.	The battery is running low.	Recharge the battery.
	The camera is not in the Capture mode.	Switch to the Capture mode.
	The shutter button was not pressed all the way down.	Press the shutter button all the way down.
	The internal memory or memory card does not have any free space.	Load 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.	Turn on the camera, select PTP, and then connect to the printer.

Technical support

For technical assistance, free driver updates, product information, and news releases, visit the following web site:

http://www.BenQ.com

Specifications

Sensor	Sharp 10 Mega Pixels CCD Size: 1/2.33 inch
Zoom	Optical: 3X (not available in the Movie Record mode) Digital: 5X (capture) / 8X (playback; 2X for VGA images)
Lens	f = 5.7 (W) ~ 17.1 (T) mm (35mm film equivalent: 32 ~ 96 mm) F/2.9 (W) ~ 5.2 (T)
Focus range	Normal: 60cm ~ Infinity Macro: 10cm ~ 70 cm (Wide)
LCD	2.7" 230K LCD
Image resolution	10M (3664 x 2748) / 3:2 (3664 x 2442) 8M (3264 x 2448) / 5M (2576 x 1932) / 3M (2048 x 1536) / 16:9 (1920 x 1080) 2M (1600 x 1200) / VGA (640 x 480)
Movie mode	640 x 480, 320 x 240, up to 30fps Continuous recording with sound
Shutter speed	1/2000 ~ 2 sec
White balance	Auto / Daylight / Tungsten / Fluorescent / Cloudy
Exposure	-2 ~ +2 EV (0.3 EV/step)
ISO	Auto, 80, 100, 200, 400, 800, and 1600
Flash	Auto / Force off / Force on / Auto anti red-eye
Drive mode	2 sec / 10 sec / Burst / M-Burst
Power source	700 mAh rechargeable Li-ion battery CIPA approx. 200 based on bundled Li-ion battery
Storage type	Built-in approx.10MB (usable) 16GB SD/SDHC card compatible
File format	DCF compatible DPOF supported Still image: JPEG (Exif 2.2. compatible) Audio: WAV Video: MJPEG
Dimensions / Weight	93 x 58 x 21.5 mm (slimmest 20.2 mm) 120 g (without battery and SD card)
Interface	• Digital output: USB2.0 compatible • Audio/Video output (NTSC/PAL) • PictBridge-compatible

Accessories	User Manual / Quick Guide
	Li-ion battery
	Hand strap
	Pouch / leather case
	Software & User Manual CD
	Power adapter
	2-in-1 USB and AV cable
	Battery retail pack: DLI-215 (optional)

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